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Charakterisierung der Prävalenz des *dcm*-homologen Gens in *Mycoplasma hominis* in Relation zur Präsenz von integrativen und konjugativen Elementen.

# Dissertation

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# Zusammenfassung

Mycoplasma hominis gehört zu den zellwandlosen Mykoplasmen - den kleinsten, sich selbst replizierenden Bakterien. M. hominis wird als fakultativ-pathogenes Bakterium beschrieben, das mit bakterieller Vaginose, urogenitalen und disseminierten Infektionen, wie der septischen Arthritis, assoziiert ist. Es wurde lange angenommen, dass sich Mykoplasmen durch Genverlust (reduktive Evolution) an einen parasitären Lebensstil angepasst haben. Neuere Forschungen weisen nun auch eine Aufnahme von genetischem Material durch horizontalen Gentransfer nach. Der Genaustausch findet über mobile genetische Elemente statt, zu denen auch die integrativen und konjugativen Elemente (ICEs) gehören. ICEs erstmals 2002 in Mykoplasmen beschrieben wurden (MICEs). In der Mykoplasmenarbeitsgruppe Institut für Medizinische Mikrobiologie am und Krankenhaushygiene der Heinrich-Heine-Universität Düsseldorf wurde 2018 ein ICE in M. hominis (ICEHo) detektiert und dessen Genausstattung charakterisiert. Das ICEHo besteht aus einem Grundgerüst von neun Genen, sog. Core-Gene. Im Genom des M. hominis-Isolates FBG wurden drei ICEHo-Elemente mit insgesamt 23 Genen identifiziert, neben den Core-Genen kamen speziesspezifische Gene, sog. Cargo-Gene, vor. Auffällig war das Vorkommen eines Gens, das sequenz-homolog zum *dcm*-Gen in *E. coli* war und in anderen MICEs bislang nicht beschrieben worden war. Das dcm-Gen kodiert eine DNA-Cytosin-Methyltransferase, welche Einfluss auf die DNA-Modifikation und die Regulation der Genexpression nimmt. Seine Funktion für M. hominis ist bislang nicht bekannt.

Ziel dieser experimentellen Arbeit war es, die Prävalenz des *dcm*-homologen Gens in *M. hominis* in Relation zur ICEHo-Präsenz zu ermitteln. Dies sollte die Beurteilung ermöglichen, ob das *dcm*-homologe Gen immer Bestandteil des ICEHo ist oder auch getrennt von diesem im *M. hominis*-Genom zu finden ist.

Für die Analyse wurden 150 Isolate der *M. hominis*-Stammsammlung des Institutes untersucht. Mittels Real-Time PCR wurde das Vorkommen des ICEHo durch den Nachweis des Vorhandenseins ausgewählter ICEHo-Gene analysiert und in Relation zum Vorkommen des *dcm*-homologen Gens gesetzt. 41% (61/150) der Isolate enthielten ein ICEHo. Das *dcm*-homologe Gen war immer Bestandteil des ICEHo und wurde in keinem ICEHo-freien Isolat gefunden.

Bei der Genomanalyse des *M. hominis*-Isolates SP10291 zeigte sich neben dem oben beschriebenen ICEHo (ICEHo-I) ein zweites ICEHo (ICEHo-II). Dieses trug unter seinen 15 Genen kein *dcm*-homologes Gen. Die 150 Isolate wurden zusätzlich auf das Vorhandensein von ICEHo-II untersucht. In 29% (43/150) der Isolate konnte das ICEHo-II gefunden werden. Auch in einer anschließenden Genomsequenzierung von neun ICEHo-II-positiven Isolaten zeigte sich das ICEHo-II im Aufbau immer ohne das *dcm*-homologe Gen.

In 15% (23/150) der Isolate wurden beide ICEHo-Elemente (ICEHo-I und ICEHo-II) gefunden. In 39% (58/150) der Isolate fand sich entweder das ICEHo-I (25%; 38/150) oder ICEHo-II (13%; 20/150). 46% (69/150) der Isolate zeigten keine Hinweise auf das Vorhandensein eines ICEHo-Elementes.

Die Ergebnisse dieser Studie zeigen, dass das *dcm*-homologe Gen immer Bestandteil des ICEHo-I ist, nicht jedoch im ICEHo-II vorkommt. Gegenstand zukünftiger Studien sollte die Funktionsanalyse des *dcm*-homologen Gens auf die pathologische Wirkung von *M. hominis* sein.

# **Summary**

Mycoplasma hominis belongs to the cell-wallless mycoplasmas - the smallest, selfreplicating bacteria. M. hominis is described as a facultative pathogenic bacterium that is associated with bacterial vaginosis, urogenital and disseminated infections such as septic arthritis. It has long been assumed that mycoplasmas adapted to a parasitic lifestyle through gene loss (reductive evolution). More recent research now also shows the uptake of genetic material through horizontal gene transfer. The gene exchange takes place via mobile genetic elements, which also include integrative and conjugative elements (ICEs). ICEs were first described in mycoplasmas (MICEs) in 2002. In the mycoplasma task force at the Institute of Medical Microbiology and Hospital Hygiene at Heinrich Heine University Düsseldorf, an ICE in *M. hominis* (ICEHo) was detected in 2018 and its genetic makeup was characterized. The ICEHo consists of a basic structure of nine genes, so-called core genes. In the genome of the M. hominis isolate FBG, three ICEHo elements with a total of 23 genes were identified, in addition to the core genes, species-specific genes, so-called cargo genes, were present. Striking was the occurrence of a gene that was sequence-homologous to the dcm gene in E. coli and had not previously been described in other MICEs. The dcm gene encodes a DNA cytosine methyltransferase, which influences DNA modification and the regulation of gene expression. Its function for *M. hominis* is not yet known.

The aim of this experimental work was to determine the prevalence of the *dcm*-homologous gene in *M. hominis* in relation to the presence of ICEHo. This should make it possible to assess whether the *dcm*-homologous gene is always part of the ICEHo or can also be found separately from it in the *M. hominis* genome.

150 *M. hominis* strains from the institute's strain collection were examined for the analysis. Using real-time PCR, the occurrence of ICEHo was analysed by detecting the presence of selected ICEHo genes and compared to the occurrence of the *dcm*-homologous gene. 41% (61/150) of the strains contained an ICEHo. The *dcm* homologous gene has always been part of the ICEHo and has not been found in any ICEHo-free strain.

In strain SP10291, which genome had already been deciphered, a second ICEHo (ICEHo-II) was found in addition to the ICEHo (ICEHo-I) described above. This did not include a *dcm*-homologous gene among its 15 genes. The 150 strains were additionally examined for the presence of ICEHo-II. ICEHo-II was found in 29% (43/150) of the strains. Even in a subsequent genome sequencing of nine ICEHo-II positive strains, the ICEHo-II was always structured without the *dcm*-homologous gene.

Both ICEHo elements (ICEHo-I and ICEHo-II) were found in 15% (23/150) of the strains. In 39% (58/150) of the strains was found either ICEHo-I (25%; 38/150) or ICEHo-II (13%; 20/150). 46% (69/150) of the strains showed no evidence of the presence of an ICE element.

The results of this study show that the *dcm*-homologous gene is always part of ICEHo-I, but does not occur in ICEHo-II. Future studies should focus on the functional analysis of the *dcm*-homologous gene for the pathological effects of *M. hominis*.

# Abkürzungsverzeichnis

ATPase	Adenosintriphosphatase
bp	Basenpaare
CDS	Kodierende Sequenz ( <u>CoDing S</u> equence)
Ct-Wert	Zyklusschwellenwert (Threshold cyle)
DNA	Desoxyribonukleinsäure
dcm	DNA-Cytosin-Methyltransferase
g	Erdbeschleunigung (9,81 m/s <sup>2</sup> )
HCI	Salzsäure
HeLa-Zellen	Isolierte menschliche Epithelzellen eines Zervixkarzinoms (der Patientin <u>He</u> nrietta <u>La</u> cks)
HGT	Horizontaler Gentransfer
ICE	Integratives und konjugatives Element (Integrative and Conjugative Element)
ІСЕНо	Mycoplasma hominis-ICE
kb/kbp	Kilo-Basenpaare
Μ	Molar
mg	Milligramm
MgCl <sub>2</sub>	Magnesiumchlorid
MGE	Mobile genetische Elemente
M. hominis	Mycoplasma hominis
MICE	Mykoplasmales integratives und konjugatives Element ( <u>Mycoplasma</u> <u>Integrative and Conjugative Element</u> )
PCR	Polymerase-Kettenreaktion (Polymerase Chain Reaction)
qPCR	Quantitative PCR

SAM	S-Adenosyl-L-Methionin			
R/M-System	Restriktions-/Modifikations-System			
RT	Raumtemperatur			
RFU	Relative Fluoreszenzintensität ( <u>R</u> elative <u>F</u> luorescence <u>U</u> nit)			
Tm	Schmelztemperatur (melting temperature)			
Tris	Trishydroxymethylaminomethan			
T4SS	Typ-IV-Sekretionssystem			
μΜ	Mikromolar			

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# 1 Einleitung

# 1.1 Eigenschaften von Mykoplasmen und speziell von Mycoplasma hominis

Mykoplasmen sind sehr kleine Bakterien aus der Klasse der *Mollicutes* ("Weichhäuter"). Im Unterschied zu anderen Bakterien haben Mykoplasmen keine Zellwand, sondern nur eine Zellmembran und sind daher von pleomorpher Gestalt. Das heißt, sie können unterschiedliche Formen annehmen, wobei die häufigste Grundform die kokkoide Zelle ist. Mit einer Genomgröße von nur 580-1.380 kbp gehören Mykoplasmen zu den kleinsten, sich selbstreplizierenden Bakterien. Insbesondere weisen sie einen niedrigen Guanin- und Cytosin-Gehalt auf. Infolge ihrer geringen genomischen Redundanz haben Mykoplasmen eine eingeschränkte Stoffwechselkapazität und sind auf einen parasitären Lebensstil angewiesen (Razin, Yogev, & Naot, 1998). Als fakultativ-pathogene Organismen sind Mykoplasmen Ursache verschiedener Erkrankungen von Menschen, Tieren und Pflanzen. Überwiegend wirtsspezifisch kommen sie bei Menschen und Tieren vor allem in der Mundhöhle, in den oberen Atemwegen und im Urogenitaltrakt vor (Taylor-Robinson, 1996). Erstmals isoliert wurden Mykoplasmen 1898 von kranken Rindern. Sie haben gemeinsame Vorfahren mit grampositiven Bakterien, wie den Clostridien (Woese, Maniloff, & Zablen, 1980).

*Mycoplasma hominis* (*M. hominis*) zählt zu den klinisch relevanten Mykoplasmen. Die Erstbeschreibung von *M. hominis* erfolgte 1937 anhand eines Abszesses einer Bartholindrüse, zunächst als "pleuropneumoniae-like organism" durch Dienes und Edsall (Dienes & Edsall, 1937). Primär urogenital vorkommend ist *M. hominis* assoziiert mit bakterieller Vaginose sowie entzündlichen Erkrankungen des Beckens, postpartalem und postabortalem Fieber und darüber hinaus mit weiteren gynäkologischen Infektionen (Taylor-Robinson & Furr, 1997). Des Weiteren wird *M. hominis* mit Frühgeburtlichkeit und kongenitalen Infektionen (Otgonjargala et al., 2017) sowie neonataler Meningitis in Verbindung gebracht (Tully & Smith, 1968), (Hillier et al., 1995), (Waites, Katz, & Schelonka, 2005). Als extragenitale Manifestationen treten überwiegend bei

immungeschwächten Patienten zudem Arthritis, Sepsis und andere disseminierte Infektionen auf (Meyer & Clough, 1993).

### 1.2 Mycoplasma hominis trägt integrative und konjugative Elemente

Es ist schon lange bekannt, dass sich Mykoplasmen durch Genverlust (reduktive Evolution) an einen parasitären Lebensstil angepasst haben (Razin et al., 1998). Neuere Forschungen weisen nun auch eine Aufnahme von genetischem Material durch horizontalen Gentransfer (HGT) nach, welches die Theorie der evolutionären Anpassung durch Genverlust um einen (horizontalen) Gewinn an mobilen genetischen Elementen erweitert. Sirand-Pugnet et al. zeigten, dass verschiedene Mykoplasmenarten, welche denselben Wirt besiedeln, eine relevante Anzahl von Genen untereinander horizontal transferierten. Der Austausch fand dabei, im Gegensatz zum vertikalen Gentransfer (von Vorfahren zu Nachkommen), unabhängig von der sexuellen Fortpflanzung über mobile genetische Elemente statt, die den Transfer von DNA durch Zell-Zell-Kontakt ermöglichten. (Sirand-Pugnet et al., 2007). HGT bietet einen Austausch von DNA zwischen Bakterien gleicher wie auch unterschiedlicher Spezies. Dies ermöglicht Mikroorganismen beispielsweise eine rasche Anpassung an Umweltveränderungen oder die Besiedlung neuer Nischen. Zudem können Virulenz- oder Resistenzfaktoren verbreitet werden und es entsteht eine höhere Variabilität zwischen Stämmen derselben Art (Citti, Dordet-Frisoni, Nouvel, Kuo, & Baranowski, 2018). Halary et al. beobachteten, dass die meisten HGT auftreten, wenn sich Spender und Empfänger in räumlicher Nähe zueinander befinden und bezeichneten auf dieser Grundlage die Konjugation als den vorherrschenden Mechanismus des HGT (Halary, Leigh, Cheaib, Lopez, & Bapteste, 2010).

In *M. hominis* konnten bislang vier Klassen von mobilen genetischen Elementen identifiziert werden: Die Insertionssequenz ISMhom-1 (Degrange, Renaudin, Charron, Bebear, & Bebear, 2008), der Prophage MhoV-1 (Calcutt & Foecking, 2015a), ein Tetracyclin-Resistenz vermittelndes Transposon (*tet*M) (Roberts, Koutsky, Holmes, LeBlanc, & Kenny, 1985) und das kürzlich beschriebene integrative und konjugative Element ICEHo (Meygret et al., 2019). Integrative und konjugative Elemente (ICE) sind selbstübertragbare mobile genetische Elemente, die einen lateralen Genfluss ermöglichen, indem sie sich in ein Genom integrieren und sich durch konjugativen Transfer in neuen Zellen verbreiten (Dordet-Frisoni

et al., 2014). Ihre Struktur ähnelt denen anderer mobiler Elemente, wie Plasmiden oder Phagen. Vor ihrer Entdeckung wurden ICEs deshalb als Plasmide oder konjugative Transposons klassifiziert. ICEs sind unter Bakterien, sowohl grampositiven als auch gramnegativen, weit verbreitet. Die ersten beschriebenen ICEs waren das Tn916 in Enterococcus faecalis (Scott & Churchward, 1995) und CTnDOT in Bacteroides thetaiotaomicron (Whittle, Shoemaker, & Salyers, 2002). Da diese wie Transposons an verschiedenen Stellen im Empfängerchromosom integriert waren, wurden sie als "konjugative Transposons" bezeichnet. Zunächst als Vermittler für die Verbreitung von Antibiotikaresistenzen verantwortlich gemacht, ist heute von weiteren Funktionen auszugehen. Man erkannte neben der Fähigkeit der Konjugation regulatorische Systeme für die Kontrolle des Herausschneidens aus dem Chromosom und den anschließenden konjugativen Transfer (Wozniak & Waldor, 2010). Burrus und Waldor bezeichneten die mobilen Elemente erstmals als "Integrative und konjugative Elemente" (Burrus & Waldor, 2004). Zwei herausragende Funktionen der ICEs sind die Integration in ein Wirtschromosom und die Kodierung eines Typ IV-Sekretionssystems, das den Transfer von der Spender- auf die Empfängerzelle über Konjugation vermittelt (Johnson & Grossman, 2015).

Die Erstbeschreibung von ICEs in Mykoplasmen erfolgte 2002 in dem humanpathogenem *M. fermentans* (ICEF) (Calcutt, Lewis, & Wise, 2002). 2006 folgte die Entdeckung des MICE-Elementes in dem tierpathogenem *M. agalactiae* (ICEA) (Marenda et al., 2006) (siehe Abb.1).





Abb. 1: Genetische Organisation der integrativen und konjugativen Elemente in Mykoplasmen (MICE). (In Anlehnung an Henrich et al., 2020). Dargestellt sind die ICE-Elemente in *M. fermentans* PG18 (MICEF-II), *M. agalactiae* 5632 (MICEA-I) sowie das minimale ICE-Rückgrat nach Tardy et al. (Tardy et al., 2015) und das MICE-Grundgerüst mit hochkonservierten Genen und konservierten Genen nach Baranowski et al. (Baranowski et al., 2018). Die Pfeile repräsentieren kodierende Sequenzen (CDSs), die Pfeillängen entsprechen ihrer Nukleotidanzahl. Konservierte Gene sind mit Zahlen beschriftet, *M. agalactiae*-spezifische Gene sind braun und mit Kleinbuchstaben beschriftet.

Die ICE-Elemente in *M. fermentans* (MICEF-II PG18) und *M. agalactiae* (MICEA-I 5632) bestehen aus etwa 23 kbp (ICEF) und 27 kbp (ICEA) und kommen in vier bzw. in drei Kopien in den untersuchten Genomen vor. Auf der Grundlage der Beschreibung dieser ersten MICEs und dem von Tardy et al. entwickelten minimalem ICE-Rückgrat, dessen Gene ein ICE immer enthält (Tardy et al., 2015), erstellten Baranowski et al. ein MICE-Grundgerüst mit (hoch-) konservierten Genen, die in einem ICE obligatorisch vorhanden sind (Baranowski et al., 2018). ICE-Elemente zeichnen sich durch eine modulare Organisation von Core- und Cargo-Genen aus. Die Core-Gene kodieren für ein Konjugationssystem mit einem komplexen, aus mehreren Untereinheiten bestehenden Typ-IV-Sekretionssystem (T4SS). Die Konjugation ermöglicht den Mykoplasmen, Proteine und DNA innerhalb ihrer Spezies aber auch mit anderen Bakterien auszutauschen und ist eine der Hauptmechanismen für den horizontalen Gentransfer (HGT) (Christie, 2001). Zu den Core-Genen gehören die in MICEs hochkonserviert vorkommenden Gene CDS5, CDS12, CDS14, CDS16, CDS17, CDS19 und CDS22. Cargo-Gene dagegen werden für die spezifische ICE-Funktion verantwortlich gemacht und wurden in anderen ICEs so nicht beschrieben.

Infolge des wachsenden Datensatzes an sequenzierten Genomen konnten zunehmend ICEs identifiziert werden. In einer der vorliegenden Studie vorangegangenen Arbeit der Mykoplasmenarbeitsgruppe des Institutes für Medizinische Mikrobiologie und Krankenhaushygiene der Heinrich-Heine-Universität Düsseldorf wurde ein MICE-Element in *M. hominis* charakterisiert (Haberhausen, 2018). Dabei zeigte sich, dass ICEs in *M. hominis* analog zu den bekannten MICEs mit dem beschriebenen MICE-Grundgerüst

aufgebaut sind. Daneben trugen sie zusätzliche, zuvor nicht beschriebene *M. hominis*spezifische Gene. Insbesondere war das Vorhandensein eines Gens auffällig, das Homologien mit dem *dcm* Gen von *E. coli* aufwies, welches für eine DNA-Cytosin-Methyltransferase (*dcm*) kodiert und daher als *dcm*-homologes Gen bezeichnet wurde.

### 1.3 Das dcm-homologe Gen

Das DNA-Cytosin-Methyltransferase (*dcm*)-Gen codiert für eine DNA-Methyltransferase, welche zu einer Klasse von Enzymen gehört, die Methylgruppen auf DNA-Basen übertragen und somit eine Änderung der Genfunktion erzielen, ohne die Gensequenz zu verändern. Methyltransferasen übertragen eine Methylgruppe des Kofaktors S-Adenosyl-L-Methionin (SAM), welcher als Methylgruppendonor dient, auf ein Adenin oder ein Cytosin der DNA: Methylierung von Adenin zu N<sup>6</sup>-Methyladenin, Methylierung von Cytosin zu N<sup>4</sup>-Methylcytosin und Methylierung von Cytosin zu 5-Methylcytosin (Cheng, 1995).

Die DNA-Methylierung bietet vielfältige Funktionen. Bei Prokaryonten dient die Methylierung insbesondere dazu, eigene DNA vor dem Abbau durch Restriktionsenzyme zu schützen. Sie ermöglicht Bakterien, fremde von eigener DNA zu unterscheiden. Hierfür verantwortliche DNA-Methyltransferasen sind assoziiert mit dem Vorkommen von Restriktionsenzymen in sogenannten Restriktions-/Modifikationssystemen (R/M-Systemen). Die DNA-Methyltransferase und die Restriktionsenzyme haben die gleiche Erkennungssequenz. Durch die Methylierung dieser Erkennungssequenz kann die zelleigene DNA von zellfremder, nicht-methylierter DNA unterschieden werden und ist vor dem Abbau des endogenen Restriktionsenzyms geschützt (Kumar & Rao, 2013). Daneben existieren solitär vorkommende DNA-Methyltransferasen, die für die Reparatur von Basenfehlpaarungen nach der Replikation (mismatch Reparatur) verantwortlich sind. Nach der Replikation ist für eine kurze Dauer nur der ursprüngliche Strang methyliert, sodass der neu synthetisierte Strang mit der fehlerhaften Basenabfolge erkannt und repariert werden kann (Reisenauer, Kahng, McCollum, & Shapiro, 1999). Die Methylierung lässt bestimmte Genbereiche mehr oder weniger aktiv sein und nimmt damit Einfluss auf die Genregulation (Cheng, 1995). Dadurch können Veränderungen der Genexpression vererbt werden, ohne die DNA-Sequenz selbst zu verändern. Zudem beeinflusst die Methylierung die thermodynamische Stabilität der DNA und verändert ihre Krümmung. Auch physiologische Zellprozesse werden unterstützt und initiiert, wie die Transkription und die Replikation (Kumar & Rao, 2013). In Eukaryonten sind eine Reihe weiterer Funktionen beschrieben worden. Die Methylierung ist beispielsweise mitverantwortlich für eine regelrechte Embryonalentwicklung, die Inaktivierung eines der beiden X-Chromosomen in weiblichen Säugetieren, und auch für das Genomic Imprinting (genetische Prägung), bei der nur das mütterliche oder das väterliche Gen der beiden Allele exprimiert wird.

Das *dcm*-Gen wurde erstmals 1973 von Marinus und Morris in *E. coli* entdeckt und neben den oben genannten Funktionen als an der Regulation von Virulenzfaktoren beteiligt beschrieben (Marinus & Morris, 1973). Die Methyltransferase des *dcm*-Gens katalysiert die Methylierung des zweiten Cytosinrestes in der Palindromsequenz 5`C<sup>m</sup>C<sup>4</sup>/<sub>T</sub>GG3` an der C-5-Position (Palmer & Marinus, 1994) in beiden Strängen. *Dcm* kommt in *E. coli* und verwandten Bakterien solitär vor, ist also nicht mit einem Restriktionsenzym assoziiert. Die Rolle des *dcm*-Gens / des Proteins *dcm* ist in Mykoplasmen bislang noch unklar, da unerforscht. In *E. coli* scheint es nicht essentiell zu sein, da Stämme mit Mutationen und Deletionen sowie Knockout-Stämme überlebensfähig sind (Marinus & Morris, 1973). Jedoch fanden Militello et al. das *dcm*-Gen und die DNA-Cytosin-Methylierung in *E. coli* hochkonserviert und Hinweise darauf, dass die Methylierung die Initiierung der Transkription beeinflussen könnte. So ist davon auszugehen, dass die Methylierung in *E. coli* zwar nicht essentiell ist, jedoch eine bedeutende regulatorische Funktion hat (Militello et al., 2012).

Ein *dcm*-homologes Gen wurde in einer dieser Studie vorausgegangen Arbeit in ICEs der *M. hominis*-Isolate des Institutes für Medizinische Mikrobiologie und Krankenhaushygiene der Heinrich-Heine-Universität Düsseldorf detektiert (Haberhausen, 2018). In den MICEs von *M. agalactiae* und *M. fermentans* ist das *dcm*-homologe Gen nicht vorhanden (siehe Kapitel 1.2). Eine hinreichende Funktionsanalyse des *dcm*-homologen Genes in ICEs von *M. hominis* steht aktuell zwar noch aus, ein besonderes Interesse an dem *dcm*-homologen Gen ergab sich jedoch durch die erhöhte *dcm*-Expression in *M. hominis* bei Infektion von HeLa Zellen. Dies könnte auf seine pathophysiologische Relevanz hinweisen.

6

1 Einleitung

# 1.4 Zielsetzung

Ziel dieser experimentellen Arbeit war es, die Prävalenz von integrativen und konjugativen Elementen (ICEHo) und des *dcm*-homologen Gens in 150 Isolaten der *M. hominis*-Stammsammlung des Institutes für Medizinische Mikrobiologie und Krankenhaushygiene der Heinrich-Heine-Universität Düsseldorf zu ermitteln. Dies sollte die Beurteilung ermöglichen, wie weit ICEHo-Elemente in *M. hominis* verbreitet sind und ob das *dcm*-homologe Gen immer Bestandteil eines ICEHo-Elementes ist oder auch getrennt von diesem im *M. hominis*-Genom zu finden ist.

# 2 Material und Methoden

# 2.1 Material

#### 2.1.1 Mycoplasma hominis-Isolate

Für die Analysen wurden 150 *M. hominis*-Isolate aus der Stammsammlung des Institutes für medizinische Mikrobiologie und Krankenhaushygiene der Heinrich-Heine-Universität Düsseldorf verwendet. Dazu gehörte auch der *M. hominis*-Typstamm PG21. Die klinischen Isolate wurden zwischen 1989 und 2015 aus Patientenmaterial gewonnen und bei -80°C als Gefrierkulturen in Argininmedium gelagert.

Bezeichnung	Bezugsquelle
Arginin	Sigma, St. Louis, MO, USA
Destilliertes Wasser	Thermo Fisher Scientific, Waltham, MA, USA
Ethanol absolut	VWR, Radnor, PA, USA
Salzsäure (HCl)	Merck, Darmstadt, Deutschland
Hefeextrakt	Becton Dickinson, Franklin Lakes, NJ, USA
Pferdeserum	PAA, Pasching, Österreich
Phenolrot	Sigma, St. Louis, MO, USA
PPLO- Broth	Becton Dickinson, Franklin Lakes, NJ, USA
Proteinase K	Roche, Mannheim, Deutschland
Trishydroxymethylaminomethan	Roth, Karlsruhe, Deutschland

#### 2.1.2 Chemikalien und Enzyme

## 2.1.3 Mastermix

Bezeichnung	Bezugsquelle	
MESA GREEN qPCR Mastermix Plus for SYBR Assay with fluorescein	Eurogentec, Lüttich, Belgien	

# 2.1.4 Oligonukleotide

Die folgenden Oligodesoxyribonukleotide (Primer) wurden von der Firma Metabion International AG, Planegg, Deutschland hergestellt und als Pulver versendet. Dieses wurde mit dem vom Hersteller angegeben Volumen destilliertes Wasser gelöst, sodass die Primer in einer Konzentration von 100 µM vorlagen.

Name	Primer	Sequenz (5' – 3')	Tm (°C)	Amplifikat (bp)
hitA <sup>a</sup>	Mh2_for	TTGAGGCACAGCAATAGC	54	81
	Mh2_rev	AAGGCTTAGGTAAGGAATGATTAG	60	
ICEHo-I_dcm <sup>a</sup>	ICE_463_F	CACGGATCTCCTTGTCAAGAT	59	91
	ICE_463_R	TGTTTCCCACAATAAACTACTTCG	60	
ICEHo-I_CDS5ª	ICE_462_F	AGAAGATTTGTCAAAAACTCCTAAAGA	61	64
	ICE_462_R	AACACTTTGTGCTTCGGCTAA	57	
ICEHo-I_CDS14 <sup>a</sup>	ICE_474_F	CCAAATCCTTCAAACCCAACT	57	62
	ICE_474_R	TCTGGTTTAACTTCAGGGGTTG	60	
ICEHo-I_CDS16 <sup>a</sup>	ICE_476_F	GCAATTGCTTTTGTTGGAAGT	55	73
	ICE_476_R	CTGATCTTGCTCCAGACATAGC	62	
ICEHo-I_CDS17.Ia <sup>a</sup>	ICE_477_F	GATTTTGTGCCGTCATCGTA	56	67
	ICE_477_R	TTTAAAATGGCAGGATTATCAGG	58	
ICEHo-I_CDS17.Ib <sup>b</sup>	17-I_F	RAAAATATTTGCAAGAACATAACATTA	57	165
	17-I_R	ATTTTCTAACCGTTTTTGTCATTT	55	
ICEHo-II_CDS17.II <sup>b</sup>	17-II_F	CCCAATAAATCCGATAGCATTA	57	84
	17-II_R	GTTCCCAACACTAACATTCCTC	60	

Tabelle 1: Verwendete Primer für die Real-Time PCR mit entsprechenden Sequenzen.

<sup>a</sup> Bereits vorhandene, in der Mykoplasmenarbeitsgruppe designte Primer; <sup>b</sup> In dieser Studie neu designte Primer. F/for: Forward-Primer, R/rev: Reverse-Primer.

## 2.1.5 Kits

Bezeichnung	Bezugsquelle
DNeasy Blood & Tissue Kit	Qiagen, Hilden, Deutschland
Ligation Sequencing Kit (SQK-LSK 108)	Oxford Nanopore Technologies, Oxford, UK
Native Barcoding Expansion (EXP-NBD 103)	Oxford Nanopore Technologies, Oxford, UK
Qubit dsDNA HS Assay Kit	Thermo Fisher Scientific, Waltham, MA, USA

## 2.1.6 Verbrauchsmaterialien

Bezeichnung	Bezugsquelle
96-Well Mikrotiterplatte, Deckelstreifen	4titude, Wotton, Surrey, UK
CryoTube Vials (1,0 ml, 1,8 ml, 3,6 ml, 4,5 ml)	Nunc, Roskilde, Dänemark
Kulturröhrchen Tissue Culture Tube (12 ml)	Sarstedt Australia, Mawson Lakes SA, Australien
PCR Single Cap 8er-Soft Strips (0,2 ml)	Biozym Scientific, Hess. Oldendorf, Deutschland
Pipettenspitzen TipOne (10 µl, 20 µl, 200 µl, 1000 µl)	Starlab International, Hamburg, Deutschland
Qubit assay tubes	Thermo Fisher Scientific, Waltham, MA, USA
Reagiergefäß DNA Low Bind (1,5 ml)	Sarstedt, Nümbrecht, Deutschland
Röhre (50 ml)	Sarstedt, Nümbrecht, Deutschland
Safe-Lock Tubes (2,0 ml)	Eppendorf, Hamburg, Deutschland
SafeSeal Gefäß (1,5 ml)	Sarstedt, Nümbrecht, Deutschland

## 2.1.7 Geräte

Bezeichnung	Bezugsquelle
CFX 96 Real-Time System C1000 Thermal Cycler	Bio-Rad, Hercules, CA, USA
CO <sub>2</sub> -Brutschrank Heracell	Kendro, Langenselbold, Deutschland
HulaMixer Sample Mixer	Thermo Fisher Scientific, Waltham, MA, USA
MagJET Separation Rack, 12 x 1,5 ml tube	Thermo Fisher Scientific, Waltham, MA, USA
Mastercycler Personal	Eppendorf, Hamburg, Deutschland
Mikrozentrifuge MiniStar	VWR, Radnor, PA, USA
MinION Mk1B	Oxford Nanopore Technologies, Oxford, UK
MiniSpin Zentrifuge	Eppendorf, Hamburg, Deutschland
NanoDrop 1000 Spectrophotometer	PeqLab Biotechnologie, Erlangen, Deutschland
Qubit Fluorometer	Thermo Fisher Scientific, Waltham, MA, USA
TGradient Thermocycler	Biometra, Göttingen, Deutschland
Thermomixer 5436	Eppendorf, Hamburg, Deutschland
ThermoMixer C	Eppendorf, Hamburg, Deutschland
Vortex-Schüttler	VWR Collection, Radnor, PA, USA
Wasserbad	Köttermann, Uetze, Deutschland
Zentrifuge Rotanta 46 RC	Hettich, Tuttlingen, Deutschland

#### 2.1.8 Softwares

Bezeichnung	Bezugsquelle
Bio-Rad CFX Manager 3.1	Bio-Rad, Hercules, CA, USA
NanoDrop 1000 V3.8.1	Thermo Fisher Scientific, Waltham, MA, USA
Probefinder	Roche Applied Science, Basel, Schweiz (https://qpcr.probefinder.com)
Windows 32 SeqMan 6.00	DNASTAR, Madison, WI, USA
Windows 32 EditSeq 6.00	DNASTAR, Madison, WI, USA
Windows 32 MegAlign 6.00	DNASTAR, Madison, WI, USA

Alle hier nicht angegebenen Materialien und Geräte entsprachen dem allgemeinen Laborstandard.

## 2.1.9 Ethikvotum

Die Studiennummer des Ethikvotums "Whole genome sequencing of mobile genetic elements in bacteria", welches von der Ethikkommission an der Medizinischen Fakultät der Heinrich-Heine-Universität Düsseldorf bereits genehmigt worden war und für diese Studie herangezogen wurde, lautet 2018-98-RetroDEuA.

#### 2.2 Mikrobiologische Methoden

#### 2.2.1 Kultivierung von Mycoplasma hominis

nach (Henrich, Feldmann, & Hadding, 1993)

Zur Kultivierung der *M. hominis*-Isolate wurden bei -80°C gelagerte Gefrierkulturen aufgetaut und 1/10er Verdünnungsreihen in 2 ml Argininmedium (pH 6,5) bis zu einer Verdünnungsstufe von 10<sup>-6</sup> angesetzt. Die Kultivierung erfolgte anaerob bei 37°C bis zur logarithmischen Wachstumsphase, die durch den Farbumschlag des im Argininmedium enthaltenen Phenolrots von orange nach rot detektiert wurde. Grundlage des Farbumschlags bildet die Verstoffwechselung von Arginin durch die Mykoplasmen. Dabei hydrolysiert die Arginin-Deiminase Arginin zu Citrullin und Ammoniak. In weiteren Schritten wird Citrullin unter ATP-Bildung zu Ammoniak und Kohlenstoffdioxid umgesetzt (Zuniga, Perez, & Gonzalez-Candelas, 2002). Der in Folge der Verstoffwechselung freiwerdende Ammoniak führt zur Alkalisierung des Mediums und Farbumschlag des Phenolrots von gelb-orange nach rot.

Als Negativkontrolle, um Kontaminationen auszuschließen, wurde ein Kulturröhrchen mit 2 ml Argininmedium ohne Zugabe von Mykoplasmen mitgeführt.

#### 2.2.2 Aufschluss der Mykoplasmen mittels Proteinase K-Behandlung

Für die Gewinnung genomischer DNA wurden die zuvor kultivierten *M. hominis*-Isolate oder aufgetaute Gefrierkulturen zur Sedimentation der Mykoplasmenzellen 10 Minuten bei 12.000 x g und 6°C zentrifugiert. Nach Entfernen des zellfreien Überstandes wurde das Bakteriensediment in 25  $\mu$ l 10 mM Tris/HCl, pH 7,5 resuspendiert. Zum Zellaufschluss und zur Freisetzung der genomischen DNA wurde der Mykoplasmensuspension das doppelte Volumen (50  $\mu$ l) Proteinase K (0,07  $\mu$ g/ $\mu$ l) zugefügt und im Thermocycler 1h bei 56°C inkubiert. Proteinase K ist eine Serinprotease und spaltet bei dieser Temperatur Peptidbindungen als Endo- und Exopeptidase (Gross-Bellard, Oudet, & Chambon, 1973). Der proteolytische Abbau der oberflächenlokalisierten Membranproteine führt dabei zur Fragmentierung der Mykoplasmenmembran und Freisetzung der genomischen DNA. Eine

anschließende 30-minütige Inkubation bei 94°C inaktivierte schließlich die Proteinase K. Die *M. hominis*-Lysate wurden bis zur weiteren Verwendung in der qPCR kurzzeitig (bis zu acht Stunden) bei 4°C oder langfristig bei -20°C gelagert.

### 2.3 Molekularbiologische Methoden

#### 2.3.1 Polymerase-Kettenreaktion (PCR)

Die Polymerase-Kettenreaktion (PCR) ist ein Verfahren zur *in vitro* Vervielfachung von DNA-Abschnitten (DNA-Amplifikation). Die DNA-Amplifikation erfolgt in drei sich wiederholenden Schritten: 1.) **Denaturierung** der DNA durch starke Hitzeeinwirkung (94-95°C), d.h. Auftrennung des DNA-Doppelstranges in zwei Einzelstränge. 2.) Anlagerung der Primer an die DNA-Einzelstränge (**Annealing**) bei 55-60°C, je nach Hybridisierungstemperatur des Primerpaares; und 3.) Synthese des Primer-gestarteten zweiten Stranges (**Elongation**) durch die DNA-Polymerase. Dieser dreistufige Zyklus wird 30-45x wiederholt, wobei die Produkte des jeweils vorherigen Zyklus als Amplifikationsmatrizen für den nächsten Zyklus dienen. In jedem Zyklus wird idealerweise die Ziel-DNA verdoppelt, so dass ein exponentieller Anstieg an PCR-Produkten stattfindet (Erlich, 1989; Saiki et al., 1985).

#### 2.3.1.1 Real-Time PCR (qPCR)

Zur relativen Quantifizierung der mittels PCR nachzuweisenden Gene wurde in dieser Studie die Real-Time PCR (qPCR, Echtzeit-PCR) angewandt. Die qPCR unterscheidet sich von der konventionellen PCR durch die Verwendung eines Fluoreszenzfarbstoffes während des PCR-Laufs. Der hier verwendetet Farbstoff SYBR Green interkaliert in doppelsträngige DNA, wo er durch UV-Licht zur Fluoreszenz angeregt werden kann, die mit Amplifikation der DNA proportional steigt (siehe Kapitel 2.3.1.2). Der Vorteil der qPCR gegenüber der konventionellen PCR liegt in der Messung der DNA-Amplifikation während des PCR-Laufs in Echtzeit (Zipper, Brunner, Bernhagen, & Vitzthum, 2004). Das macht eine nachgeschaltete Visualisierung der PCR-Produkte auf Agarosegelen entbehrlich und ist somit kontaminationsärmer.

Die qPCR-Assays wurden in einer 96-Well PCR-Platte durchgeführt, wobei jede Probe in Zweifachbestimmung analysiert wurde. Als Positivkontrolle wurde das Isolat FBG mitgeführt, als Negativkontrolle diente ein Assay mit Mastermix, ohne Zugabe von DNA. Jedes Well enthielt ein Gesamtvolumen von 25  $\mu$ l (22,5  $\mu$ l Mastermix + 2,5  $\mu$ l DNA-Template), die Zusammensetzung der qPCR-Mixe ist in Tabelle 2 aufgelistet.

Bestandteile	Volumen (1x)	Volumen (50x)	Endkonzentration
DNA-Template	2,5 µl	-	-
2x Mastermix	12,5 µl	625 µl	1x
Forward-Primer (100 µM)	0,075 µl	3,75 µl	300 nM
Reverse-Primer (100 µM)	0,075 µl	3,75 µl	300 nM
Destilliertes Wasser	10 µl	500 µl	-

Tabelle 2: Zusammensetzung des Real-Time PCR-Ansatzes.

Jeder qPCR-Mix enthielt in seiner Endkonzentration 1x Mastermix, bestehend aus Reaktionspuffer, dNTPs (inklusive dUTP), Meteor Taq DNA Polymerase, MgCl<sub>2</sub> (5 mM Endkonzentration), SYBR Green I, Stabilisatoren und Fluorescein. Zudem jeweils einen Forward- und Reverse-Primer (siehe Tabelle 1) und 2,5 µl DNA-Template.

Die Durchführung der qPCRs mit dem CFX 96 Real-Time System C1000 Thermal Cycler erfolgte mit dem in Tabelle 3 dargestellten Temperaturprofil.

Funktion	Dauer	Temperatur
DNA-Amplifikation		
DNA-Denaturierung	5:00 min	95°C
DNA-Denaturierung	0:15 min 44 m	95°C
Primerhybridisierung und -elongation	1:00 min 44 x	60 °C
Schmelzkurvenanalyse		
DNA-Denaturierung	0:15 min	95°C
Abkühlung	1:00 min	60°C
Start		65°C
Ende		95°C
Temperaturinkrement	0:15 min	+ 0,5°C
Pause	Unendlich	4°C

Tabelle 3: Temperaturprotokoll der Real-Time PCRs mit Schmelzkurvenanalyse.

Die Daten der qPCR wurden mit der Bio-Rad CFX Manager 3.1-Software aufgezeichnet und ausgewertet. Im Anschluss an die DNA-Amplifikation wurde eine Schmelzkurvenanalyse durchgeführt (siehe Kapitel 2.3.1.3).

# 2.3.1.2 Relative Quantifizierung der ICEHo-Gene zu dem "single copy" Gen hitA

Für jedes *M. hominis*-Isolat wurde in der qPCR mithilfe der Bio-Rad Software (CFX Manager 3.1) der Ct-Wert der entsprechenden ICE-Gene sowie des Housekeeping Gens *hitA* 

ermittelt. Der Ct-Wert beschreibt den Zyklus der PCR, bei dem die Amplifikationskurve erstmals über den Hintergrundwert (Hintergrundfluoreszenz) ansteigt (siehe Abb. 2).



Abb. 2: Schematische Darstellung der relativen Fluoreszenzänderung (RFU) bei positiver Amplifikation der Zielregion in der Real-Time PCR (qPCR). Amplifikationskurve (rot) des *hitA*-Genes des *M. hominis*-Isolates FBG. Grün: Baseline Threshold; SYBR: Fluoreszenzfarbstoff SYBR Green I; Ct-Wert: Cycle Threshold (Schwellenwertzyklus), Schnittpunkt der Amplifikationskurve mit der Schwellenwertlinie, an dem das Fluoreszenzsignal erstmals über den Hintergrundwert (Hintergrundfluoreszenz/Baseline Threshold) ansteigt; RFU: relative Fluoreszenzintensität.

Anschließend wurde der Ct-Wert des Referenzgens *hitA*, das in jedem Isolat einmal vorkommt ("singel copy"-Gen) mit den jeweiligen Ct-Werten der ICE-Gene verglichen. Zur Berechnung des Häufigkeitsunterschiedes wurde der Ct-Wert des Referenzgens (*hitA*) vom Ct-Wert des ICE-Gens subtrahiert:  $\Delta$ Ct = Ct<sub>Zielgen</sub> - Ct<sub>Referenzgen</sub> (Pfaffl, 2001). Die Bewertung der errechneten Ct-Werte ist in Kapitel 3.2 beschrieben.

#### 2.3.1.3 Schmelzkurvenanalyse

Die Schmelzkurvenanalyse wurde im Anschluss an die DNA-Amplifikation durchgeführt und von der Software Bio-Rad CFX Manager 3.1 aufgezeichnet. Die DNA-Doppelstränge der PCR-Produkte wurden zunächst bei 95°C in Einzelstränge getrennt (15 s) und anschließend auf eine Temperatur von 65°C heruntergekühlt, was wieder zur Doppelstrangbildung führte. Eine schrittweise Erhöhung der Temperatur um jeweils 0,5°C führte solange zum Erhalt der DNA-Einzelstränge, bis der spezifische Schmelzpunkt des qPCR-Produktes erreicht war. Bei Erreichen des Schmelzpunktes denaturierte die Doppelstrang-DNA; es bildeten sich Einzelstränge und das Fluoreszenzsignal nahm signifikant ab, da das unspezifische Fluorophor SYBR Green nicht mehr in die dsDNA interkalieren konnte (Neusser, 2001). Da Primerdimere, welche als Nebenprodukte der qPCR bei höherer Zyklenzahl entstanden, nur eine Größe von 45-50 bp besaßen und deutlich niedrigere Schmelztemperaturen (70-75°C) aufwiesen, konnten diese von den eigentlichen qPCR-Produkten (>80°C) unterschieden werden.

#### 2.3.2 Nanopore-Sequenzierung

Die Nanopore-Sequenzierung mit dem MinION ist eine von Oxford Nanopore Technologies 2014 auf den Markt gebrachte Methode zur DNA-Sequenzierung (Jain, Olsen, Paten, & Akeson, 2016). Grundlage dieser "NextGeneration-" (NGS) bzw. "Whole-Genome"- (WGS) Sequenzierung ist die Messung der Spannungsänderung beim Durchtritt von DNA durch Poren in Nanometergröße. Die Poren liegen in einer nicht leitfähigen Membran, an der eine Spannung angelegt wird. Dadurch entsteht ein Ionenfluss durch die Poren. Mit Hilfe von Enzymen wird die zu untersuchende DNA in Einzelstränge getrennt und durch die Pore transportiert. Jedes der vier Nukleotide ruft eine spezifische Potentialänderung hervor. In Echtzeit berechnet eine Software daraus die Basenabfolge der DNA (Deschamps et al., 2016).

Bevor die Genomsequenzierung von ausgewählten *M. hominis*-Isolaten vorgenommen werden konnte, wurden einige vorbereitende Schritte, wie sie in Kapitel 2.3.2.1 bis 2.3.2.4 beschrieben sind, durchgeführt.

#### 2.3.2.1 DNA-Präparation mittels Qiagen Blood & Tissue Kit

modifiziert nach dem DNeasy Blood & Tissue Kit-Protokoll von Qiagen

*M. hominis*-Kulturen (50 ml) in logarithmischer Wachstumsphase wurden zentrifugiert (20 min, 4500 rpm, 20°C). Die Überstände wurden verworfen und die Bakteriensedimente in 1800  $\mu$ l ATL-Puffer resuspendiert, mit 200  $\mu$ l Proteinase K (0,1 mg/ml) versetzt und für 1 h bei 56°C im Thermomixer 5436 inkubiert und geschüttelt (5 x 100 min<sup>-1</sup>). Anschließend wurden die Proben in ein 15 ml Falcon überführt und 200  $\mu$ l RNaseA (10 mg/ml) sowie 2000  $\mu$ l AL-Puffer (vorgewärmt bei 56°C) zugegeben. Nach einer zehnminütigen Inkubation

im Wasserbad bei 70°C wurde der Ansatz mit 2100 µl EtOH<sub>abs</sub> versetzt, gemischt und in 630 µl Fraktionen über eine Qiagen Amp Spin-Säule zentrifugiert (1 min, 4293 x g, RT) und der Durchlauf verworfen. Danach wurde die DNA-tragende Säulenmatrix mit 500 µl AW1-Puffer (1 min, 4293 x g, RT) und anschließend mit 500 µl AW2-Puffer (3 min, 4293 x g, RT) gewaschen. Die Säulen wurden nach Überführung in 1500 µl Elutions-Röhrchen zum Abdampfen des EtOHs offen inkubiert (5 min, RT) und nach Zugabe von je 50 µl Tris/HCl pH 8,0 (vorgewärmt bei 70°C) geschlossen im Wasserbad inkubiert (5 min, 70°C). Nach Zentrifugation (1 min, 13000 x g, RT) wurde der dem Erst-DNA-Eluat entsprechende Durchlauf bis zur weiteren Verwendung bei -20°C gelagert. Die Säulenmatrix wurde nochmals mit 50 µl Tris/HCl pH 8,0 (vorgewärmt bei 70°C) inkubiert (5 min, RT) und nach erneuter Zentrifugation (1 min, 4293 x g, RT) das Zweit-DNA-Eluat gewonnen.

#### 2.3.2.2 Photometrische Konzentrationsbestimmung von Nukleinsäuren

Die Konzentration und Reinheit von Nukleinsäurelösungen wurde mit dem Spektralphotometer NanoDrop 1000 bestimmt. Gemessen wurde die Absorption im UV-Bereich bei 260 nm (für DNA) und 280 nm (für Proteine). Dazu wurde je 1  $\mu$ l der DNA-Lösung (siehe Kapitel 2.3.2.1) auf die Messsonde gegeben. Als Negativkontrolle diente Tris/HCl pH 8,0. Zur Bestimmung der DNA-Reinheit wurde der Quotient aus der Absorption bei 260 nm und 280 nm errechnet. Die Auswertung der Daten erfolgte mithilfe der Software NanoDrop 1000 V3.8.1. Als rein betrachtet wurde die DNA mit einem 260nm/280nm Quotienten zwischen 1,8 und 2,1. Die Konzentration der DNA einer Lösung errechnete sich nach folgender Gesetzmäßigkeit: 1 OD<sub>260nm</sub> = 50 $\mu$ g DNA/ml.

#### 2.3.2.3 Fluorometrische Messung von Nukleinsäuren

Für die fluorometrische Messung der DNA-Konzentration einer Lösung mittels Qubit Fluorometer wurde den mit Tris/HCl pH 8,0, 1:10 verdünnten Nukleinsäurelösungen (siehe Kapitel 2.3.2.1) ein Fluorophor zugefügt (Qubit dsDNA HS Assay Kit). Dieses Fluorophor bindet stöchiometrisch an DNA, sodass die Menge der Nukleinsäure quantitativ gemessen werden konnte.

### 2.3.2.4 Fragmentlängenanalyse

Die Analyse der Fragmentlängen der präparierten genomischen DNA (siehe 2.3.2.1) wurde im Biologisch-Medizinischen Forschungszentrum (BMFZ) der Heinrich-Heine-Universität Düsseldorf unter Verwendung des Protokolls "DNF-464 High Sensitivity Genomic large fragment 50kb DNA Analysis Kit" durchgeführt.

## 2.4 Bioinformatische Methoden

### 2.4.1 Sequenzalignment und Erstellung phylogenetischer Stammbäume

Mit der Software SeqMan 6.00 (DNASTAR) wurden ausgewählte Gene der nanoporesequenzierten *M. hominis*-Isolate selektiert. Diese Sequenzen wurden anschließend mit Hilfe der Software EditSeq 6.00 (DNASTAR) als seq-Datei gespeichert, sodass die gleichen Gene verschiedener Isolate anschließend mit der Software MegAlign 6.00 (DNASTAR) unter der Verwendung des ClustalW-Algorithmus aligniert werden konnten und zur Konstruktion von phylogenetischen Stammbäumen dienten.

## 3 Ergebnisse

#### 3.1 Ausgangssituation

Integrative und konjugative Elemente in M. hominis (ICEHo) sind Gegenstand aktueller Forschung der Mykoplasmenarbeitsgruppe am Institut für Medizinische Mikrobiologie und Krankenhaushygiene der Heinrich-Heine-Universität Düsseldorf. Eine erste Charakterisierung von ICEHo-Elementen war an den M. hominis-Isolaten FBG und SP10291 durchgeführt worden, deren Genome von der Mykoplasmenarbeitsgruppe bereits sequenziert worden waren (Haberhausen, 2018). Als Grundlage für die ICEHo-Charakterisierung diente das publizierte MICE-Grundgerüst von Baranowski et al. (Baranowski et al., 2018), das auf den MICE-Genen des humanpathogenen Bakteriums M. fermentans (Calcutt et al., 2002) und des tierpathogenen Bakteriums M. agalactiae (Marenda et al., 2006) basierte (siehe Kapitel 1.2). Bei der Charakterisierung der ICEHo-Elemente von M. hominis fiel auf, dass neben den in den MICE-Elementen bekannten Genen, ICEHospezifische Gene vorkamen (zunächst als CDS A-F bezeichnet). Außerdem war ein dcmhomologes Gen auffällig, welches in anderen MICE-Elementen noch nicht identifizierte worden war. In Abb. 3 ist die genetische Organisation von ICEHo-Elementen der beiden M. hominis-Isolate FBG (ICEHo FBG-II) und SP10291 (ICEHo SP10291) neben den von M. fermentans (MICEF-II PG18) und M. agalactiae (MICEA-I 5632) dargestellt. Deutlich ist hier ein gemeinsames Grundgerüst mit jeweils speziesspezifischen Genen in M. agalactiae und *M. hominis* zu erkennen.



Abb. 3: Genetische Organisation von integrativen und konjugativen Elementen (ICEs) in *M. fermentans*, *M. agalactiae* und *M. hominis*. (In Anlehnung an Henrich et al., 2020). Dargestellt sind die ICE-Elemente in *M. fermentans* PG18 (MICEF-II PG18), *M. agalactiae* 5632 (MICEA-I 5632) und den *M. hominis*-Isolaten

FBG (ICEHo FBG-II) und SP10291 (ICEHo SP10291). Die Pfeillängen repräsentieren entsprechend ihrer Nukleotidanzahl kodierende Sequenzen (CDSs), Core-Gene sind beschriftet mit Zahlen. Hellgraue Pfeile stellen Pseudogene dar. ICEHo-spezifische Gene sind orange umrandet und mit Großbuchstaben beschriftet. *M. agalactiae*-spezifische Gene sind braun und mit Kleinbuchstaben beschriftet.

Von vorrangigem Interesse war in der vorliegenden Arbeit die Analyse der Verbreitung der ICEHo-Elemente in *M. hominis* in Bezug auf das *dcm*-homologe Gen.

Hierzu sollten zwei Fragen beantwortet werden:

- Wie hoch ist die Prävalenz von ICEHo in 150 *M. hominis*-Isolaten der Stammsammlung des Institutes f
  ür Medizinische Mikrobiologie und Krankenhaushygiene der Heinrich-Heine-Universit
  ät D
  üsseldorf?
- 2. Ist das *dcm*-homologe Gen immer Bestandteil des ICEHo?

### 3.2 Prävalenz von ICEHo in 150 Mycoplasma hominis-Isolaten

Um die Prävalenz von ICEHo-Elementen in *M. hominis* zu beurteilen, wurden in dieser Studie 150 *M. hominis*-Isolate der Stammsammlung des Institutes mittels qPCR auf das Vorhandensein der ICEHo-Gene CDS5, CDS14, CDS16 und CDS17 getestet. Diese vier Gene sind Bestandteile des Grundgerüstes der MICE-Elemente und dienten stellvertretend für alle im ICEHo vorhandenen Gene für die Detektion eines vollständigen ICEHo-Elementes. Das Core-Gen CDS14 kodiert für ein Oberflächenprotein, welches den Zell-Zell-Kontakt vermittelt. Die Core-Gene CDS5 und CDS17 kodieren für Konjugationsproteine, die an dem Typ IV-Sekretionssystem, welches den Transfer zwischen Spender- und Empfängerzelle ermöglicht, beteiligt sind. Und das Core-Gen CDS16 kodiert ein Protein, das für die Transmembranfunktion benötigt wird (Tardy et al., 2015).

Aufgrund der späteren Detektion eines zweiten, abweichend aufgebauten ICEHo-Elementes in *M. hominis* (siehe Kapitel 3.3) wird das hier beschriebene ICEHo-Element im Folgenden als ICEHo-I bezeichnet.

Die in der qPCR verwendeten Primerpaare (siehe Tabelle 1) waren von der Mykoplasmenarbeitsgruppe für das ICEHo-I des Isolates FBG passgenau designt und computerbasiert auf ihre universelle Passgenauigkeit geprüft worden, sodass sie in dieser Arbeit für alle *M. hominis*-Stämme verwendet werden konnten. In Abb. 4 sind beispielhaft



Amplifikationskurven der durchgeführten qPCRs mit den zugehörigen Schmelzkurven abgebildet.

**Abb. 4: Real-Time PCR-Amplifikationskurven mit Schmelzkurvenanalyse.** A.1 Amplifikationskurve der DNA des *M. hominis*-Isolates FBG, diente als Positivkontrolle und als Beispiel für ein ICEHo-positives Isolat; mit zugehöriger Schmelzkurvenanalyse (A.2). B.1 Amplifikationskurve der Negativkontrolle, bestehend aus Mastermix-Ansatz, ohne Zugabe von DNA; mit zugehöriger Schmelzkurvenanalyse (B.2). C.1 Amplifikationskurve der DNA des *M. hominis*-Isolates 8958, als Beispiel für ein ICEHo-negatives *M. hominis*-Isolat; mit zugehöriger Schmelzkurvenanalyse (C.2). Getestet wurden jeweils das Referenzgen *hitA*, sowie die ICEHo-Gene CDS5, CDS14, CDS16 und CDS17.

Grün: Baseline Threshold; SYBR: Fluoreszenzfarbstoff SYBR Green I; RFU: relative Fluoreszenzintensität; -d(RFU)/dT: negative Änderungsrate der relativen Fluoreszenzeinheiten mit der Zeit.

Mit Hilfe der Software Bio-Rad CFX Manager wurden für jedes analysierte Isolat die Ct-Werte der qPCRs der ICEHo-I-Gene sowie des Referenzgens *hitA* berechnet. Das Gen *hitA* kommt als einzelne Kopie in jedem *M. hominis*-Isolat vor, sodass es sich als Referenzgen zur Normierung eignete. Da es sich bei den Proben um DNA-Proben aus *M. hominis*-Reinkulturen handelte, sollte das Referenzgen *hitA* vor dem 25. Zyklus detektiert werden
(Ct < 25). Dargestellt sind in Abb. 4 exemplarisch die qPCR-Ergebnisse des Isolates FBG (A.1), welches als Positivkontrolle und als Beispiel für ein ICEHo-I-tragendes Isolat diente. Das Gen *hitA* sowie alle untersuchten CDS-Gene wiesen im Isolat FBG einen Ct-Wert < 25 auf und wurden somit als vorhanden bewertet. Außerdem ist die Negativkontrolle "DNA-frei" (B.1) abgebildet, bestehend aus Mastermix, ohne Zugabe von DNA. In der Negativkontrolle wurde erwartungsgemäß weder das Referenzgen *hitA*, noch ein CDS-Gen detektiert. Und zuletzt das Isolat 8958 als Beispiel für ein ICEHo-I-negatives Isolat (C.1). Hier konnte das Referenzgen *hitA* mit einem Ct-Wert < 25 detektiert werden, was ein Hinweis dafür war, dass es sich um ein *M. hominis*-Isolat handelte. Jedoch waren die CDS-Gene nicht nachweisbar (Ct-Wert > 30), infolge dessen das Isolat 8958 als ICEHo-I-frei bewertet wurde. Mit Hilfe der Schmelzkurvenanalyse (A.2 bis C.2) ließ sich die Spezifität der qPCR-Produkte bestimmen und von eventuell aufgetretenen Nebenprodukten unterscheiden (siehe 2.3.1.3).

Zur Bewertung der ICEHo-I-Gene wurde der Expressionsunterschied zwischen den ICEHo-I-Genen und dem jeweiligen Referenzgen *hitA* berechnet. Dazu wurde der Ct-Wert des Referenzgens *hitA* vom Ct-Wert des Zielgens (der ICEHo-I-Gene) subtrahiert:  $\Delta$ Ct = Ct<sub>Zielgen</sub> - Ct<sub>Referenzgen</sub> (vgl. Kapitel 2.3.1.2). Ein ICEHo-I-Gen wurde als vorhanden bewertet, wenn der  $\Delta$ Ct-Wert +/- 7 betrug. Eine Tabelle mit allen qPCR-Ergebnissen und berechneten  $\Delta$ Ct-Werten der jeweiligen Isolate befindet sich im Anhang (siehe Tabelle 12).

In 38 von 150 Isolaten (25,3%) waren alle vier untersuchten ICEHo-I-Gene und in 86 von 150 Isolaten (57,3%) keines der ICEHo-I-CDS-Gene nachweisbar. Es war also davon auszugehen, dass mindestens ein Viertel der Isolate im Besitz eines ICEHo-I-Elementes war. In 26 von 150 Isolaten (17,3%) wurden ein, zwei oder drei ICEHo-I-CDS-Gene positiv detektiert (siehe Tabelle 4)(Henrich et al., 2020).

#### 3 Ergebnisse

<i>M. hominis-</i> Isolate (n)	CDS5	CDS14	CDS16	CDS17
86	-	-	-	-
38	+	+	+	+
14	+	-	+	+
3	+	+	+	-
1	+	-	+	-
3	+	-	-	+
1	-	+	-	+
1	+	-	-	-
3	-	+	-	-
150	60	45	56	56

Tabelle 4: Detektion von ICEHo-I-Genen mittels Real-Time PCR (qPCR).

(n) Anzahl der Isolate; (+) positive Detektion, (-) negative Detektion in der qPCR.

In 14 Isolaten wurde ausschließlich das ICEHo-I-Gen CDS14 nicht detektiert. Dies ließ vermuten, dass das Primerpaar für dieses Gen nicht passgenau war und infolgedessen falsch negative Ergebnisse erzielt wurden. In drei Isolaten (15029, 7388VA, 11608) wurde lediglich das ICEHo-I-Gen CDS14 positiv detektiert. Diese Isolate enthielten möglicherweise kein vollständiges ICEHo-I-Element, sondern nur ein ICEHo-I-Rudiment. Auffällig war weiterhin, dass bei fünf Isolaten (942J, 14591, 14851VA, SP16937, 24280VA) der  $\Delta$ Ct-Wert für das ICEHo-I-Gen CDS17 bei acht oder neun lag, also knapp negativ war. Auch dies stellte die Primerpassgenauigkeit in Frage. Zur Überprüfung der Primerpassgenauigkeit wurden deshalb als nächstes die Sequenzen der Primerpaare für die ICEHo-I-CDS-Gene mit Hilfe der Software SeqMan 6.00 mit den entsprechenden Sequenzabschnitten der Primerbindungsstellen der Isolate FBG und SP10291verglichen (vgl. Tabelle 5).

ICEHo-Gen	Referenz-DNA/ Primer	Primersequenz (5'-x-3')					
	SP10291	agaagatttAtcaaaaactcctaaaga					
CDS5	ICE_426_F	agaagatttGtcaaaaactcctaaaga					
CD85	SP10291	aacactttgtgcttcggctaa					
	ICE_426_R	aacactttgtgcttcggctaa					
	SP10291	ccaaaAcc-tcaaCcTcaac					
CDS14	ICE_474_F	ccaaaTccttcaaAcCcaac					
CD814	SP10291	tctgCtttaGGttcCggggtt					
	ICE_474_R	tctgGtttaACttcAggggtt					
	SP10291	gcaattgcttttgttggaagt					
CDS1(	ICE_476_F	gcaattgcttttgttggaagt					
CD810	SP10291	ctgatTttgctccagacatagc					
	ICE_476_R	ctgatCttgctccagacatagc					
	SP10291	gattttgCgccgtTatcgta					
CDS17	ICE_477_F	gattttgTgccgtCatcgta					
CD317	SP10291	tttaaaat <mark>A</mark> gcaggattatcagg					
	ICE_477_R	tttaaaatGgcaggattatcagg					

Tabelle 5: Primerpassgenauigkeit.

Rot/grün: Basenaustausch in der Genomsequenz/Primersequenz.

F: Forward-Primer, R: Reverse-Primer. SP10291 Acc.-Nr. CP055149.

Die Primerbindungsstellen für die ICEHo-I-Gene CDS5 und CDS16 waren mit Ausnahme jeweils eines Basenaustausches (CDS5 im Forward-Primer; CDS16 im Reverse-Primer) zum Isolat SP10291 sequenzidentisch. Das Primerpaar für das ICEHo-I-Gen CDS14 zeigte im Vergleich mit der Sequenz des Isolates SP10291 an mehreren Basen Abweichungen. Diese Differenz wurde bei der Bewertung der Ct-Werte und der Beurteilung, ob das ICEHo-I-Gen als vorhanden oder nicht vorhanden bewertet wurde, berücksichtigt. Das heißt, konnte lediglich das ICEHo-I-Gen CDS14 in einem Isolat nicht detektiert werden, während die ICEHo-I-Gene CDS5, CDS16 und CDS17 vorhanden waren, wurde das Isolat als ICEHo-Itragend bewertet. Bei der Überprüfung der Primerpassgenauigkeit mit der entsprechenden Primerbindungssequenz des Isolates SP10291 und des Isolates FBG zeigte sich im ICEHo-I-Gen CDS17 im Isolat SP10291 eine größere Sequenzdivergenz, während das Primerpaar zur entsprechenden Sequenz im Isolat FBG passgenau war. Zur weiterführenden Untersuchung dieses Gens wurde anhand der entsprechenden Sequenz des Isolates SP10291 mittels der online-Software Probefinder (Roche Applied Science, Basel, Schweiz) ein neues Primerpaar designt. Das bereits vorhandene Primerpaar wurde zur Unterscheidung als ICEHo-CDS17.Ia und das neu designte Primerpaar als ICEHo-CDS17.Ib bezeichnet. Alle 150 *M. hominis*-Isolate wurden nochmals mittels qPCR unter Verwendung des neuen Primerpaares auf das ICEHo-I-Gen CD17 getestet und die Ergebnisse mit den Ergebnissen des zuerst verwendeten Primerpaares (CDS17.Ia) verglichen (siehe Tabelle 6).

Primerpaares (CDS17.Ia)	•	
<i>M. hominis-</i> Isolate (n)	CDS17.Ia	<b>CDS17.Ib</b> (neues Primerpaar)
89	-	-
54	+	+
5	-	+
2	+	-

Tabelle 6: Vergleich der Real-Time PCR (qPCR)-Ergebnisse des neu designten Primerpaares (CDS17.Ib) mit den Ergebnissen des ursprünglichen Primerpaares (CDS17.Ia).

(+) positive Detektion, (-) negative Detektion in der qPCR.

So konnte in allen fünf zuvor negativ getesteten Isolaten (942J, 14591, 14851VA, SP16937, 24280VA) das ICEHo-I-Gen CDS17 in der qPCR positiv detektiert werden ( $\Delta$ Ct zwischen -3 und 1). Die Passgenauigkeit des Primerpaares wurde somit durch die Verwendung beider Primerpaare nachweislich verbessert. Zwei Isolate wurden auf CDS17.Ib negativ getestet, bei denen CDS17.Ia positiv ausfiel: das Isolat 16 ( $\Delta$ Ct = 20 [-5]) und das Isolat 20402 ( $\Delta$ Ct = 17 [-3]).

Zusammenfassend wurden alle Isolate, bei denen CDS17.Ia und/oder CDS17.Ib positiv detektiert wurde, als ICEHo-I CDS17-positv bewertet. Tabelle 7 zeigt eine Übersicht mit den qPCR-Ergebnissen der Detektion der ICEHo-I-Gene. Die 150 *M. hominis*-Isolate wurden mittels qPCR auf die ICEHo-I-Gene CDS5, CDS14, CDS16 und CDS17.Ia getestet (vgl. Tabelle 4) und ergänzt durch die Ergebnisse des neu designten Primerpaares CDS17.Ib.

Zudem dargestellt ist die daraus abgeleitete Prävalenz von ICEHo-I in den untersuchten 150 *M. hominis*-Isolaten der Stammsammlung des Institutes.

<i>M. hominis</i> - Isolate (n)	CDS5	CDS14	CDS16	CDS17.Ia/ CDS17.Ib	Bewertung ICEHo-I
86	-	-	-	-	500/
3	-	+	-	-	- 59%
41	+	+	+	+	
15	+	-	+	+	
4	+	-	-	+	+ 41%
1	-	+	-	+	
150	60	45	56	61	

Tabelle 7: Detektion von ICEHo-I-Genen mittels Real-Time PCR (qPCR) mit kalkulierter ICEHo-I-Prävalenz.

(+) positive Detektion, (-) negative Detektion in der qPCR. Die Zahlen in der letzten Zeile ergeben die Summe der untersuchten *M. hominis*-Isolate (erste Spalte) und die Summe der Detektion der ICEHo-I-CDS-Gene.

Ein Isolat wurde als ICEHo-I-tragend bewertet, wenn mindestens zwei der vier untersuchten ICEHo-I-Gene (CDS5, CDS14, CDS16, CDS17.Ia/b) positiv in der qPCR detektiert wurden. Zusammenfassend wurden insgesamt 61 von 150 Isolaten (41%) als ICEHo-I-tragend bewertet. Bei 41 von 150 Isolaten (27%) konnten alle vier getesteten ICEHo-I-CDS-Gene gefunden werden. 89 der 150 Isolate (59%) wurden als ICEHo-I-negativ bewertet. Darunter waren 86 Isolate (57%), bei denen alle ICEHo-I-Gene negativ getestet wurden und drei Isolate, bei denen ausschließlich das ICEHo-I-Gen CDS14 positiv detektiert wurde (Henrich et al., 2020).

#### 3.3 ICEHo-II in 150 Mycoplasma hominis-Isolaten

Im Isolat SP10291 schien das ICEHo-Gen CDS17 zweimal vorhanden zu sein, jedoch nicht vollständig sequenzidentisch. Das vermutete zweite ICEHo-Element erhielt die Bezeichnung ICEHo-II. Auch das Genom eines weiteren Isolates (SP3615) schien dieses

zweite ICEHo-II-Element zu enthalten. Beim Vergleich des Aufbaus der ICEHo-II-Elemente wiesen einige Gene Homologien zu ICEHo-I-Genen auf, darunter die MICE-Core-Gene CDS1, CDS16, CDS17, CDS19 und CDS22. CDS17 zeigte sich im ICEHo-I- und ICEHo-II-Element von SP10291 so sequenzdivergent, dass mittels eines ICEHo-IIspezifischen CDS17-Primerpaares (ICEHo-CDS17.II) die Prävalenz des ICEHo-II-Elementes in den 150 *M. hominis*-Isolaten der Stammsammlung ermittelt wurde. Anhand des Nachweises des ICEHo-II-Gens CDS17.II wurden die Isolate als ICEHo-II-tragend oder ICEHo-II-frei beurteilt. Dabei erfolgte die Bewertung der qPCR-Ergebnisse wie in Kapitel 3.2 für den Nachweis des ICEHo-I-Elementes beschrieben; d.h., die mit der Software Bio-Rad CFX Manager 3.1 berechneten Ct-Werte für das ICEHo-II-Gen CDS17.II wurden in Relation zum jeweiligen Referenzwert *hitA* gesetzt und der  $\Delta$ Ct-Wert ermittelt. Lag dieser zwischen -7 und +7, wurde das jeweilige *M. hominis*-Isolat als CDS17.II-positiv und somit als ICEHo-II-tragend bewertet. 43 der 150 Isolate (29%) schienen im Besitz des ICEHo-II-Elementes zu sein (Henrich et al., 2020).

## 3.4 Prävalenz von ICEHo-I und ICEHo-II in 150 *Mycoplasma hominis*-Isolaten im Vergleich

Die in dieser Arbeit bisher erzielten Ergebnisse zeigten in den 150 untersuchten *M. hominis*-Isolaten die Präsenz zweier unterschiedlicher ICEHo-Elemente: ICEHo-I und ICEHo-II. In Abb. 5 ist die Prävalenz von ICEHo-I neben der Prävalenz von ICEHo-II in 150 *M. hominis*-Isolaten der Stammsammlung des Institutes aufgetragen.



Abb. 5: Prävalenz von ICEHo-I und ICEHo-II in 150 M. hominis-Isolaten.

Zusammenfassend zeigte sich, dass 41% der *M. hominis*-Isolate (61/150) im Besitz nur eines ICEHo-I und 29% der *M. hominis*-Isolate (43/150) nur eines ICEHo-II waren. Insgesamt scheint also die Prävalenz von ICEHo-I höher als die Prävalenz von ICEHo-II zu sein. In nur 15% (23/150) der Isolate traten beide ICEHo-Elemente I und II auf. Tabelle 8 zeigt einen Vergleich des Vorkommens von ICEHo-I und ICEHo-II in 150 *M. hominis*-Isolaten der Stammsammlung (Henrich et al., 2020).

<i>M. hominis-</i> Isolate (n)	(%)	ІСЕНо-І	ICEHo-II
69	46,00%	-	-
23	15,33%	+	+
38	25,33%	+	-
20	13,33%	-	+
150	100%	61	43

Tabelle 8: Vergleich der Prävalenz von ICEHo-I und ICEHo-II in 150 *M. hominis*-Isolaten.

(+) ICEHo-positive Detektion, (-) ICEHo-negative Detektion in der Real-Time PCR.

15,33% der *M. hominis*-Isolate (23/150) wiesen sowohl das ICEHo-I als auch das ICEHo-II auf. 46% der *M. hominis*-Isolate (69/150) waren ICEHo-frei. 25,33 % der *M. hominis*-Isolate (38/150) trugen das ICEHo-I aber kein ICEHo-II und 13,33% der *M. hominis*-Isolate (20/150) waren im Besitz des ICEHo-II, nicht jedoch des ICEHo-I (Henrich et al., 2020).

## 3.5 Nanopore-Sequenzierung der Genome ausgewählter ICEHo-Iund/oder ICEHo-II-tragender *Mycoplasma hominis*-Isolate

Das qPCR-basierte Screening der 150 *M. hominis*-Isolate auf das Vorhandensein von integrativen und konjugativen Elementen, wie es in Kapitel 3.2 und Kapitel 3.3 beschrieben wird, lieferte wertvolle Hinweise zur Prävalenz der ICEHo-Elemente in *M. hominis*. Um die Annahmen zu überprüfen, dass ein ICEHo-I-Element vorhanden war, wenn mindestens zwei der vier untersuchten ICEHo-I-Gene (CDS5, CDS14, CDS16, CDS17.Ia/b) positiv in der qPCR detektiert wurden, sowie, dass CDS17-II ausreichend hinweisend für das Vorhandensein von ICEHo-II war, wurden zwölf ICEHo-tragende Isolate ausgewählt, deren Genomsequenz mittels Nanopore-Technologie entschlüsselt werden sollte. Aus der Gruppe der ausschließlich ICEHo-I-tragenden Isolate wurden drei *M. hominis*-Isolate ausgewählt, die ein unterschiedliches Nachweismuster der ICEHo-I-Gene aufwiesen: das Isolat 18847 (CDS14- und CDS16-negativ), das Isolat 21127VA (CDS5- und CDS16-negativ) und das Isolat 7388VA (nur CDS14 positiv). Zudem wurden vier Isolate ausgewählt, die in der qPCR nur für das ICEHo-II-Element positiv waren (727J, 7447VA, 2740, 16753) und fünf Isolate, die beide ICEHo-Elemente trugen (10936, 942J, 12256U, 19791, 14352).

Die Nanopore-Sequenzierung mit dem MinION bot die Möglichkeit, das vollständige Genom der *M. hominis*-Isolate zu entschlüsseln. (vgl. Kapitel 2.3.2). Die generierten Genomsequenzen wurden anschließend mit den Softwareprogrammen SeqMan, EditSeq und MegAlign (DNASTAR) analysiert. Der Fokus der Analysen lag hier auf dem Nachweis der ICEHo-Präsenz im *M. hominis*-Genom, um die Frage beantworten zu können, ob die Ergebnisse der qPCR und die darauf basierende Einordnung der *M. hominis*-Isolate in ICEHo-tragend und ICEHo-frei mit den Ergebnissen der Nanopore-Sequenzierung übereinstimmen. Des Weiteren war es so möglich zu klären, 1.) ob ein ICEHo-Element in einer Kopie pro Genom vorkommt oder es auch häufiger vertreten sein kann; 2.) inwiefern sich das CDS17.I-Gen vom CDS17.II-Gen unterscheidet und 3.) wie es sich mit dem

CDS14-Gen verhält, welches in der qPCR bei Abwesenheit von anderen ICEHo-CDS-Genen detektiert wurde.

Zunächst wurde mittels Gensequenzalignments in den Genomen der zwölf sequenzierten *M. hominis*-Isolate nach den Genen der ICEHo-Elemente gesucht. Diese Ergebnisse wurden anschließend mit den Ergebnissen der qPCR vergleichen. Eine Gegenüberstellung des Vorkommens der ICEHo-I- und ICEHo-II-Elemente in der Nanopore-Sequenzierung und der qPCR ist in Tabelle 9 aufgeführt. Das Genom des Isolates SP10291 war bereits von der Mykoplasmenarbeitsgruppe sequenziert worden und diente mit jeweils einer Kopie des ICEHo-I- und des ICEHo-II-Elementes als Positivkontrolle. Die Genomsequenz des Isolates FBG war ebenfalls bereits sequenziert worden und konnte zusätzlich als Positivkontrolle für das ICEHo-I-Element dienen.

	ICEHo-	[	ICEHo-	II	
<i>M. hominis-</i> Isolat	Nanopore- Sequenzierung (Kopien/Genom)	qPCR	Nanopore- Sequenzierung (Kopien/Genom)	qPCR	
7388	0 (CDS14 91%)	-	0	-	
21127VA	3	+	0	-	
18847	1	+	0	-	
727J	0	-	1	+	
7447VA	0	-	1	+	
2740	0	-	2	+	
16753	0	-	2	+	
10936	1	+	1	+	
942J	1	+	1	+	
12256U	1	+	2	+	
19791	1	+	2	+	
14352	1	+	1	+	
SP10291	1	+	1	+	
FBG	3	+	0	-	

Tabelle 9: Detektion von ICEHo-Elementen in *M. hominis* mittels Nanopore-Sequenzierung und Real-Time PCR (qPCR).

0 bis 3: Anzahl der Kopien der ICEHo-Elemente pro Genom. (+) ICEHo-positiv, (-) ICEHo-negativ in der qPCR. Das Isolat SP10291 diente als Positivkontrolle.

Während mittels qPCR ein *M. hominis*-Isolat als ICEHo-tragend identifiziert werden konnte, bot die Sequenzierung zusätzlich detaillierte Erkenntnisse zum Vorkommen, wie z.B. zur Lokalisation innerhalb der Genomsequenz aber auch zum Aufbau der ICEHo-Elemente. So konnten in den *M. hominis*-Genomen bis zu drei Kopien eines ICEHo-Elements gefunden werden (Isolat FBG und 21127VA). Tabelle 9 zeigt neben dem Vorkommen der ICEHo-Elemente auch deren Anzahl an Kopien pro Genom. In Bezug auf das quantitative Vorkommen stimmten alle Ergebnisse der Nanopore-Sequenzierung mit den Ergebnissen der qPCR überein. War ein Isolat in der qPCR ICEHo-positiv, wurde das ICEHo-Element auch im entschlüsselten Genom gefunden. Von den insgesamt 14 sequenzierten Isolaten präsentierten sich zwei Isolate (FBG und 21127VA) mit jeweils drei Kopien und vier Isolate (2740, 16753, 12256U und 19791) mit jeweils zwei Kopien eines ICEHo-Elementes. Alle weiteren Isolate trugen maximal ein ICEHo-Element in ihrem Genom (Henrich et al., 2020). Tabelle 10 veranschaulicht den Vergleich der Multiplizität der ICEHo-Elemente mit dem Zyklus der Detektion in der qPCR.

	ICEH	0-I	ICEH	o-II
<i>M. hominis-</i> Isolat	Nanopore- Sequenzierung (Kopien/Genom)	∆Ct-Wert ( <i>dcm</i> )	Nanopore- Sequenzierung (Kopien/Genom)	∆Ct-Wert (CDS17.II)
7388	0	24	0	23
21127VA	3	-3	0	32
18847	1	-1	0	22
727J	0	29	1	0
7447VA	0	31	1	2
2740	0	21	2	-3
16753	0	15	2	-1
10936	1	0	1	0
942J	1	0	1	0
12256U	1	0	2	-1
19791	1	2	2	-2
14352	1	0	1	2
SP10291	1	-1	1	-1
FBG	3	-1	0	29

Tabelle 10: Vergleich der Anzahl der ICEHo-Elemente pro Genom in *M. hominis* mit dem Zyklus der Detektion in der Real-Time PCR (qPCR).

Verglichen wurde die Anzahl der Kopien der ICEHo-I/II-Elemente pro Genom (0 bis 3) mit dem  $\Delta$ Ct-Wert des *dcm*-homologen Gens für den Nachweis des ICEHo-I-Elementes und des CDS17.II-Gens für den Nachweis des ICEHo-II-Elementes. Der  $\Delta$ Ct-Wert ergibt sich aus der Differenz des Ct-Wertes des Refrenzgens *hitA* und des *dcm*-homologen Gens bzw. des CDS17.II-Gens.

Bei allen Isolaten, die mehr als eine Kopie eines ICEHo-Elementes im Genom trugen, konnte dieses in der qPCR in einem früheren Zyklus positiv detektiert werden, als das Referenzgen *hitA* (negativer  $\Delta$  Ct-Wert; zur Bewertung der qPCR-Ergebnisse siehe Kapitel 2.3.1.2). Dabei wurde zum Vergleich der  $\Delta$ Ct-Wert des *dcm*-homologen Genes für das ICEHo-I-Element (nur in diesem vorkommend) und der  $\Delta$ Ct-Wert des CDS17.II-Genes für das ICEHo-II-Element herangezogen. (Die Bedeutung des *dcm*-homologen Genes wird im folgenden Kapitel erläutert.) So kam das ICEHo-I-Element beispielsweise im Isolat 21127VA dreimal vor, entsprechend wurde das *dcm*-Gen in der qPCR früher (drei Zyklen) als das Referenzgen *hitA* detektiert. Die Isolate SP10291 und 18847 trugen das ICEHo-I einmal im Genom, diese konnten in der qPCR ebenfalls früher detektiert werden als das Referenzgen *hitA*. Bei allen anderen Isolaten, die ein ICEHo-Element im Genom trugen, wurde das zugrundeliegende Gen in der qPCR im selben Zyklus oder später als das Referenzgen *hitA* detektiert ( $\Delta$ Ct-Wert 0 oder positiv).

Auch der qPCR-Befund des parallelen Vorkommens von ICEHo-I- und ICEHo-II-Elementen in einem Isolat bestätigte sich in den sequenzierten Isolaten. Fünf der zwölf Isolate enthielten mindestens eine Kopie beider ICEHo-Elemente. Sechs Isolate enthielten entweder ein ICEHo-I- oder ein ICEHo-II-Element.

Das Isolat 7388, das wie die Isolate 15029 und 11608 nach qPCR-Beurteilung unter den ICEHo-Genen nur das CDS14-Gen enthielt, zeigte auch im sequenzierten Genom kein Hinweis auf ein ICEHo-Element. Jedoch fand sich in der Sequenz ein Abschnitt mit einer 91% igen Übereinstimmung zum CDS14-Gen. Es war also davon auszugehen, dass das CDS14-Gen isoliert im Genom, möglicherweise als Überrest eines ehemals vorhandenen ICEHo-Elementes, vorkommen kann. Damit wurde der Algorithmus der ICEHo-Identifizierung bestätigt, indem Isolate, die nur das CDS14-Gen enthielten, als ICEHo-negativ bewertet worden waren.

#### 3.6 Das dcm-homologe Gen ist konserviert im ICEHo-I

Das *dcm*-homologe Gen wurde erstmals in *M. hominis* entdeckt im Rahmen der Charakterisierung eines ICEHo-Elementes, die von der Mykoplasmenarbeitsgruppe im Vorfeld der vorliegenden Studie durchgeführt worden war (Haberhausen, 2018). Unter den untersuchten vier ICEHo-I-positiven *M. hominis*-Isolaten (*M. hominis* PL5, TOA, FBG und SP10291) waren alle im Besitz des *dcm*-homologen Genes. Im Gegensatz zu den ICEHofreien *M. hominis*-Isolaten und den zuvor beschriebenen MICE-Elementen von *M. agalactiae* und *M. fermentans*. Auf Grundlage dieser Ergebnisse wurde die Hypothese aufgestellt, dass das *dcm*-homologe Gen ein konservierter Bestandteil des ICEHo-I-Elementes ist. Um diese Hypothese zu untersuchen, wurden 150 *M. hominis*-Isolate der Stammsammlung auf das Vorhandensein des *dcm*-homologen Gens geprüft. Die Analyse erfolgte analog zu der Ermittlung der ICEHo-I- und ICEHo-II-Gene mittels qPCR (vgl. Kapitel 3.2 und 3.3). Auch die Bewertung der qPCR-Ergebnisse erfolgte gleichartig (vgl. Kapitel 2.3.1.2). Gemessen am Referenzgen *hitA* wurde der Ct-Wert des *dcm*-homologen Gens mit einer Toleranz von  $\pm$ 7 als positiv und das jeweilige *M. hominis*-Isolat entsprechend als Träger des *dcm*-homologen Gens bewertet.

In 61 von 150 Isolaten (41%) konnte das *dcm*-homologe Gen mit Ct-Werten zwischen 7 und 23 detektiert werden. Dabei wurde die qPCR-Reaktion des *dcm*-homologen Gens in etwa der Hälfte der Isolate (30/61) ein bis drei Zyklen früher als die des Referenzgens *hitA* positiv. Die Annahme, dass diese Isolate mehr als eine Kopie des ICEHo-Elementes im Genom trugen, konnte im Vergleich mit den Resultaten der Nanopore-Sequenzierung unterstützt werden (siehe Tabelle 10) (Henrich et al., 2020).

Die Prävalenz des *dcm*-homologen Gens in 150 *M. hominis*-Isolaten der Stammsammlung im Vergleich zum Vorkommen der ICEHo-Elemente I und II ist in Tabelle 11 aufgezeichnet.

<i>M. hominis-</i> Isolate (n)	<i>dcm</i> -homologes Gen	ІСЕНо-І	ICEHo-II
23	+	+	+
38	+	+	-
20	-	-	+
69	-	-	-
150	61	61	43

Tabelle 11: Prävalenz des *dcm*-homologen Gens in Relation zur ICEHo-Präsenz in 150 *M. hominis*-Isolaten.

(+) positive Detektion, (-) negative Detektion in der Real-Time PCR. Die Zahlen in der letzten Zeile ergeben die Summe der untersuchten *M. hominis*-Isolate (erste Spalte) und die Summe der Detektion des *dcm*-homologen Gens und der ICEHo-I/II-positiven Isolate.

Das *dcm*-homologe Gen wurde immer dann detektiert, wenn das jeweilige Isolat zugleich im Besitz eines ICEHo-I-Elementes war. Dies war bei 61 von 150 Isolaten (40,7%) der Fall, wobei 23 der 150 Isolate (15,3%) sich für das *dcm*-homologe Gen und für beide ICEHo-Elemente positiv zeigten. In 69 von 150 Isolaten (46%) konnte weder ein ICEHo-I oder ICEHo-II noch das *dcm*-homologe Gen gefunden werden. Diese Isolate wurden als ICEHofrei bewertet. Die Tatsache, dass 20 Isolate nur im Besitz eines ICEHo-II-Elements, aber *dcm*-negativ getestet waren, führte zu der Annahme, dass das *dcm*-homologe Gen nur Bestandteil des ICEHo-I-Elementes war, hier jedoch ein essentieller Bestandteil. In keinem der untersuchten Isolate konnte das *dcm*-homologe Gen außerhalb eines ICEHo-I-Elementes im Genom von *M. hominis* detektiert werden (Henrich et al., 2020).

Um den Grad der Verwandtschaft zwischen den *dcm*-homologen Genen der *M. hominis*-Stämme festzustellen, wurde mit der Software MegAlign (DNASTAR) mittels ClustalW-Methode ein Sequenzalignment der neun ICEHo-I-positiven *M. hominis*-Isolate erstellt und anhand dieser Daten ein phylogenetischer Stammbaum gestaltet (siehe Abb. 6). Als Referenzgen diente das *dcm*-homologe Gen im ICEHo-I FBG-II, zusammengesetzt aus insgesamt 1002 bp. Die entsprechenden Sequenzen entstammten der Nanopore-Sequenzierung (vgl. Kapitel 3.5). Die Daten des Sequenzalignments sind in Tabelle 13 im Anhang aufgelistet.



## Phylogenetischer Stammbaum *dcm*

Nukleotidaustausch (x100)

Abb. 6: Phylogenetischer Stammbaum basierend auf dem *dcm*-homologen Gen in neun ICEHo-Ipositiven *M. hominis*-Isolaten. Mit der ClustalW-Methode wurde ein Sequenzalignment des *dcm*-homologen Gens der neun ICEHo-I-positiven *M. hominis*-Isolate erstellt und darauf basierend ein phylogenetischer Stammbaum entwickelt. Die Sequenzen entstammten der Nanopore-Sequenzierung. Die Länge der Entwicklungslinien ist ein Maß für die genetische Distanz zwischen den Sequenzen. Die Zahlen hinter den Namen der Isolate kennzeichnen die Anzahl der ICEHo-I-Elemente bei mehr als einer Kopie im Genom.

Das *M. hominis*-Isolat FBG enthielt drei Kopien des ICEHo-I-Elementes (ICEHo-I FBG-I, ICEHo-I FBG-II und ICEHo-I FBG-III), wie in Abb. 6 dargestellt, präsentierte sich das *dcm*-homologe Gen aller drei Kopien (FBG.*dcm*-1, FBG.*dcm*-2, FBG.*dcm*-3) sequenzidentisch. Auch die *dcm*-homologen Gene in den drei ICEHo-I-Kopien des Isolates 21127 waren sequenzidentisch (21127.*dcm*-1, 21127.*dcm*-2, 21127.*dcm*-3). Das *dcm*-homologe Gen unterschied sich dagegen in den verschiedenen *M. hominis*-Isolaten immer in wenigen Basenpaaren (max. 2 nt/100 nt; siehe Abb. 6).

Der Vergleich der Nukleotidsequenzen deutete darauf hin, dass das *dcm*-homologe Gen konserviert im ICEHo-I-Element in *M. hominis* vorkam.

# 3.7 CDS17-basierte Taxonomie der ICEHo-positiven *Mycoplasma hominis*-Isolate

Mit dem Ziel der CDS17-basierten Taxonomie der *M. hominis*-Isolate wurden mit der Software MegAlign (DNASTAR) mittels ClustalW-Methode Sequenzalignments der CDS17.I- und CDS17.II-Gene der ICEHo-I- und/oder ICEHo-II-positiven *M. hominis*-Isolate erstellt und anhand dieser Daten, wie bereits in Kapitel 3.6 für das *dcm*-homologe Gen, phylogenetische Stammbäume gestaltet (siehe Abb. 7 und Abb. 8). Die entsprechenden Sequenzen entstammten der Nanopore-Sequenzierung (vgl. Kapitel 3.5).

#### A Phylogenetischer Stammbaum CDS17.I



## B Phylogenetischer Stammbaum CDS17.II



Abb. 7: Phylogenetische Stammbäume der CDS17.I- und CDS17.II-Gene in ICEHo-I/II-positiven *M. hominis*-Isolaten. Mit der ClustalW-Methode wurden Sequenzalignments der CDS17.I-Gene (A) und der CDS 17.II-Gene (B) der ICEHo-I- bzw. ICEHo-II-positiven *M. hominis*-Isolate erstellt und darauf basierend phylogenetische Stammbäume entwickelt. Die Sequenzen entstammten der Nanopore-Sequenzierung. Die Länge der Entwicklungslinien ist ein Maß für die genetische Distanz zwischen den Sequenzen. Die Zahlen hinter den Namen der Isolate kennzeichnen die Anzahl der ICEHo-I/II-Elemente bei mehr als einer Kopie im Genom.

Das ICEHo-I-Gen war in den *M. hominis*-Isolaten FBG und 21227 je dreimal vorhanden (FBG.CDS17.I-1, FBG.CDS17.I-2, FBG.CDS17.I-3 und 21127.CDS17.I-1, 21127.CDS17.I-2, 21127.CDS17.I-3). In beiden *M. hominis*-Isolaten zeigten sich die CDS17-I-Gene sequenzidentisch. Wohingegen sich die CDS17.I-Gene in unterschiedlichen

*M. hominis*-Isolaten immer in wenigen Basenpaaren unterschieden (siehe Abb. 7 A). Entsprechend verhielt es sich mit den CDS17.II-Genen der ICEHo-II-positiven *M. hominis*-Isolate 12256U und 19791, welche in jeweils zwei Kopien des ICEHo-II-Elementes vorkamen (12256U.CDS17.II-1, 12256U.CDS17.II-2 und 19791.CDS17.II-1, 19791.CDS17.II-2). Auch hier präsentierten sich die CDS-Gene sequenzidentisch. Daneben gab es in den ICEHo-II-positiven Isolaten 16753 und 2740, welche ebenfalls zwei Kopien des ICEHo-Elementes trugen (16753.CDS17.II-1, 16753.CDS17.II-2 und 2740.CDS17.II-1, 2740.CDS17.II-2) wenige Basenaustausche (siehe Abb. 7 B). Auch unter den verschiedenen ICEHo-II-positiven *M. hominis*-Isolaten unterschied sich die Basenabfolge der CDS17.II-Gene immer in wenigen Nukleotiden. In Tabelle 14 und Tabelle 15 im Anhang sind die Daten der Sequenzalignments aufgelistet.

Bei dem zusammengefassten Sequenzalignment für die ICEHo-Gene *dcm*, CDS17.I und CDS17.II mit daraus abgeleitetem phylogenetischem Stammbaum bildeten sich deutlich drei Cluster für die jeweiligen Gene (siehe Abb. 8). Die Daten des Sequenzalignments sind in Tabelle 16 im Anhang aufgelistet.



Abb. 8: Phylogenetischer Stammbaum basierend auf dem *dcm*-homologen Gen sowie den Genen CDS17.I und CDS17.II in ICEHo-I- und/oder ICEHo-II-positiven *M. hominis*-Isolaten. Mit der ClustalW-Methode wurde ein Sequenzalignment des *dcm*-homologen Gens und der CDS17.I- und CDS17.II-Gene der ICEHo-I- und/oder ICEHo-II-positiven *M. hominis*-Isolate erstellt und darauf basierend ein phylogenetischer Stammbaum entwickelt. Die Sequenzen entstammten der Nanopore-Sequenzierung. Die Länge der Entwicklungslinien ist ein Maß für die genetische Distanz zwischen den Sequenzen. Die Zahlen hinter den Namen der Isolate kennzeichnen die Anzahl der ICEHo-I/II-Elemente bei mehr als einer Kopie im Genom.

Die Clusterbildung veranschaulichte, dass die Gene CDS17-I, CDS17-II oder *dcm* in den unterschiedlichen *M. hominis*-Isolaten jeweils näher miteinander verwandt waren als mit den beiden anderen in ICEHo-Elementen vorkommenden Genen. Kamen ICEHo-Elemente in einem Isolat in mehreren Kopien vor (zwei oder drei), unterschieden sich die Sequenzen der gleichen Gene nicht (z.B. 12256U.CDS17.II-1 und -2) oder nur in wenigen Basenpaaren (z.B. 2740.CDS17.II-1 und -2). Gleiche CDS17-Gene oder *dcm*-homologe Gene innerhalb

eines Isolates (bei mehreren Kopien) waren näher miteinander verwandt als CDS-Gene zwischen verschiedenen Isolaten. Die Sequenzen der CDS17.I/II-Gene waren in unterschiedlichen *M. hominis*-Isolaten nie identisch.

4 Diskussion

#### 4 Diskussion

*M. hominis* ist ein fakultativ pathogenes Bakterium, welches den menschlichen Urogenitaltrakt besiedelt. Eine Einordung von *M. hominis*-Isolaten in pathogen und nichtpathogen ist bislang nicht gelungen. Aktuelle Studien geben Hinweise darauf, dass die Virulenz dieser Mykoplasmenspezies mit dem Vorhandensein von mobilen genetischen Elementen (MGE) zusammenhängt. MGEs sind DNA-Sequenzen mit der Fähigkeit, ihre Position im Genom zu verändern und von einer Zelle zur nächsten übertragbar zu sein. Wie Eingangs bereits beschrieben, sind in *M. hominis* vier Arten von MGEs bekannt: die Insertionssequenz ISMhom-1 (Degrange et al., 2008), der Prophage MhoV-1 (Calcutt & Foecking, 2015a), ein Tetrazyklin-Resistenz vermittelndes Transposon (Calcutt & Foecking, 2015b) und das kürzlich beschriebene ICEHo-Element (Meygret et al., 2019), das dem ICEHo-I-Element dieser Studie entspricht.

Die Analyse der 150 *M. hominis*-Isolate der Stammsammlung des Institutes ergab, dass 40,7% (61/150) der Isolate ICEHo-I-tragend sowie 28,7% (43/150) ICEHo-II-tragend waren. Dabei war das *dcm*-homologe Gen immer Bestandteil des ICEHo-I-, nicht jedoch des ICEHo-II-Elementes und wurde in keinem ICEHo-freien Isolat gefunden. Die ICEHo-I- und II-Elemente traten in den *M. hominis*-Isolaten parallel aber auch getrennt voneinander auf (Henrich et al., 2020).

ICE-Elemente wurden als selbstübertragbare Elemente beschrieben, die den Transfer von einer Spender- auf eine Empfängerzelle über Konjugation vermitteln (Wozniak & Waldor, 2010). Infolge des wachsenden Datensatzes an sequenzierten Genomen können ICE-Elemente zunehmend identifiziert werden. Wie in der Einleitung erwähnt, wurden ICE-Elemente in Mykoplasmen erstmals 2002 von Calcutt et al. in *M. fermentans* (MICE) nachgewiesen (Calcutt et al., 2002). In *M. hominis* wurden ICEHo-Elemente mit zuvor unbekannten und spezifischen Merkmalen in einer jüngsten Studie beschrieben. Meygret et al. publizierten 2019 die Genome von sieben sequenzierten *M. hominis*-Isolaten. Das ICE-Element entsprach dem ICEHo-I-Element, das in der vorliegenden Studie genauer untersucht wurde. Das Genrepertoire und die Anordnung der CDS-Gene in den ICEHo-Elementen zeigten sich in beiden Studien ähnlich zu den Beschreibungen in *M. fermentans* (Calcutt et al., 2002) und *M. agalactiae* (Marenda et al., 2006). So lag im ICEHo-I-Element ebenfalls das von Tardy et al. definierte ICE-Rückgrat aus den vier CDS-Genen, CDS1, CDS3, CDS17 und CDS22 vor (Tardy et al., 2015), sowie weitere modular angeordnete Core- und Cargo-Gene. In Mykoplasmen war ein minimierter T4SS-Apparat beschrieben, der verantwortlich für den MICE-Transfer von einer Spender- auf eine Empfängerzelle ist (Johnson & Grossman, 2015). Für den konjugativen Transfer wurden folgende sieben Gene verantwortlich gemacht: CDS5, CDS7, CDS13, CDS15, CDS16, CDS17 und CDS 19. Baranowski et al. beschrieben ein Modell für den MICE-Transfer, bei dem dieser Vorgang über direkten Kontakt mit der Empfängerzelle, welcher über das CDS14kodierte Oberflächenprotein vermittelt wird, erfolgt. Durch die Induktion werden ICE-Elemente aus dem Chromosom herausgeschnitten, was an kurzen Inverted Repeats (IRs, AAAA/TTTT), welche an den Enden der ICE-Elemente lokalisiert sind, geschieht. Anschließend zirkularisieren die ICE-Elemente, vermittelt durch eine DDE-Rekombinase (CDS22-Produkt). Infolge der Zirkularisierung werden ICE-kodierte Proteine exprimiert, darunter auch die Proteine mit einer Transmembrandomäne, die an der Kanalbildung beteiligt sind (Genprodukte von CDS5, CDS15, CDS16, CDS17 und CDS19). Unterstützt wird der Transfer der ICE-Elemente durch die energetische Komponente TraG/VirD4 (CDS5), eine ATPase an der Innenseite der Membran. Im Empfängerstamm kann sich das ICE-Element in das Wirtschromosom integrieren (Alvarez-Martinez & Christie, 2009; Baranowski et al., 2018; Citti et al., 2018). Die ICE-Integration in ein Empfängerchromosom tritt zufällig und an verschiedenen Orten auf, insbesondere in kodierenden Regionen (Brochet et al., 2009).

Im ICEHo-II-Element fand sich ein reduziertes T4SS-System, bestehend aus nur fünf MICE-Gene: CDS1, CDS16, CDS17, CDS19 und CDS22. CDS5 und CDS14 fehlten (Henrich et al., 2020). Möglicherweise ist eine Übertragung des ICEHo-II-Elementes bei Fehlen des CDS14-Oberflächenproteins weniger erfolgreich, was ein Grund für die geringere Verbreitung von ICEHo-II (28,7%) gegenüber ICEHo-I (40,7%) in 150 getesteten *M. hominis*-Isolaten dieser Studie sein kann.

Als Hauptunterschied zwischen den zuvor beschriebenen MICEs und dem neu beschriebenen ICEHo-I-Element ermittelten Meygret et al. ein spezifisches, 4-5,1 kb umfassendes *M. hominis*-ICE-Modul, welches aus fünf bis sechs nebeneinanderliegenden CDS-Genen (MhoA bis MhoK) bestand (Meygret et al., 2019). Diese sogenannten Cargo-Gene finden sich neben den Core-Genen in ICEHo-I-Elementen. Sie vermitteln individuelle ICEHo-Funktionen und werden ebenfalls übertragen. Bei der Charakterisierung des ICEHo-I-Elementes durch die hiesige Mykoplasmenarbeitsgruppe fanden sich ebenfalls ICEHo-

spezifische Gene, welche zunächst als CDS-A bis CDS-F bezeichnet und im Verlauf der Nomenklatur von Meygret et al. angeglichen wurden (MhoA bis MhoK) (Haberhausen, 2018). Die Funktionen dieser ICEHo-I-spezifischen Gene wurden hierbei jedoch noch nicht ermittelt. Meygret et al. beschrieben die Cargo-Gene auf der Basis eines Sequenzvergleiches als überwiegend kodierend für hypothetische Proteine oder Methyltransferasen, die Ähnlichkeit zu Genen von Bakterien haben, die mit *M. hominis* gemeinsam die urogenitale Nische besiedeln, wie Ureaplasma parvum und andere (Meygret et al., 2019). Zwei herausragende Merkmale von Cargo-Genen konnten im ICEHo-I-Element gefunden werden: alle ICEHo-I-Elemente trugen ein bis drei CDS-Gene, die für Proteine mit Transkriptionsaktivator-ähnlichen (TAL) Effektor-Wiederholungen kodieren, die mutmaßlich an der Polynukleotiderkennung und Signaltransduktion beteiligt sind. Sowie zwei bis drei CDS-Gene, die vermutlich Methyltransferasen kodieren (Meygret et al., 2019). Hochkonserviert kamen die ICEHo-spezifischen Gene MhoI, das für eine C5-Cytosin-DNA-Methyltransferase (dcm) kodiert und MhoC, das für eine N6-Adenin-DNA-Methyltransferase (dam) kodiert, vor. Die Präsenz von MhoK, das für eine S-Adenosyl-Methionin-abhängige Methyltransferase (SAM) kodierte, zeigte sich hingegen stammspezifisch. Diese Methyltransferasen gehören zur Gruppe der Orphan-Methyltransferasen. Häufig sind Methyltransferasen mit Restriktionsendonukleasen assoziiert, um ein Restriktionsmodifikationssystem zu bilden, das Bakterien vor dem Eindringen fremder DNA schützt. Kommen Methyltransferasen allein vor, spricht man von Orphan-Methyltransferasen, welche vermutlich über die Methylierung der DNA Einfluss auf die Regulation der Genexpression und die Zellzyklusregulation haben (Murphy, Mahony, Ainsworth, Nauta, & van Sinderen, 2013).

Das von Meygret et al. beschriebene ICEHo-spezifische Gen MhoI, welches für das *dcm*-Gen kodiert, fand sich bei der Charakterisierung des ICEHo-I-Elementes in den analysierten Isolaten der *M. hominis*-Stammsammlung der Mykoplasmenarbeitsgruppe am Institut für Medizinische Mikrobiologie und Krankenhaushygiene an gleicher Stelle (Henrich et al., 2020). Abb. 9 zeigt vergleichend die genetische Organisation von ICE-Elementen in Mykoplasmen und konforme Gene in Ureaplasmen.



Abb. 9: Genetische Organisation von integrativen und konjugativen Elementen in Mykoplasmen und konforme Gene in Ureaplasmen. (In Anlehnung an Henrich et al., 2020). Die Pfeile repräsentieren entsprechend ihrer Nukleotidanzahl kodierende Sequenzen (CDS), beschriftet mit Zahlen. Hellgraue Pfeile stellen Pseudogene dar. ICEHo-spezifische Gene sind orange umrandet und mit Großbuchstaben beschriftet. *M. agalactiae*-spezifische Gene sind braun und mit Kleinbuchstaben beschriftet.

Das *dcm*-homologe MhoI-Gen kommt in den MICE-Elementen von *M. agalactiae* und *M. fermentans* nicht vor, ist jedoch in anderen Bakterien wie z.B. Ureaplasmen bekannt als Regulator von Virulenzfaktoren (Fisher, Siman-Tov, & Ankri, 2004). Erstmals wurde das *dcm*-homologe Gen in *M. hominis* entdeckt im Rahmen der Charakterisierung des ICEHo-I-Elementes, die von der Mykoplasmenarbeitsgruppe im Vorfeld der vorliegenden Studie durchgeführt worden war (Haberhausen, 2018).

Die DNA-Methylierung durch DNA-Methyltransferasen spielt eine wichtige Rolle bei der epigenetischen Genregulierung, sie erwirkt eine Regulation der Genexpression, wodurch sich Bakterien an veränderte Umweltbedingungen anpassen (Kumar & Rao, 2013; Wion & Casadesus, 2006). Zu epigenetischen Mechanismen zählen unter anderem auch der Zeitpunkt der DNA-Replikation, die Reparatur von DNA und der Zeitpunkt der Transposition und des konjugalen Transfers (Casadesus & Low, 2006). Brambila-Tapia et al. verglichen DNA-Methyltransferasen in humanpathogenen Bakterien mit verwandten Spezies, die nicht / weniger pathogen waren. Insgesamt beobachteten sie eine geringe Anzahl von Methyltransferasen in genomreduzierten Bakterien, wie den Mykoplasmen. Sie fanden außerdem einen höheren Anteil von Adenin-Methyltransferasen im Vergleich zu Cytosin-Methyltransferasen. Brambila-Tapia et al. vermuteten, dass einige obligat intrazelluläre Bakterien mit reduziertem Genom, wie Chlamydien oder Rickettsien, weniger abhängig von Methyltransferasen sind als fakultativ intrazelluläre oder extrazelluläre Bakterien (Brambila-Tapia, Poot-Hernandez, Perez-Rueda, & Rodriguez-Vazquez, 2016). Diese Annahme kann nach den vorliegenden Untersuchungen mit dem Ergebnis des festen Bestandteils des dcmhomologen Gens in den in M. hominis häufig vorkommenden ICEHo-I-Elementen in dieser Studie unterstützt werden.

Zu dem *dcm*-homologen Gen in *M. hominis* zeigte sich bei einem Sequenzvergleich ein konformes Gen in Ureaplasmen (*U. parvum* Serovar 3 (ATCC 27815)) (Haberhausen, 2018). Ureaplasmen zählen wie Mykoplasmen zur Klasse der Mollicutes und kommen ebenso wie *M. hominis* urogenital vor. Da neben dem *dcm*-homologen Gen auch die ICEHo-Gene CDS3 und CDS5 in Ureaplasmen zu finden waren, wurde von der Mykoplasmenarbeitsgruppe vermutet, dass Mykoplasmen möglicherweise durch Rekombinationsereignisse diese Gene von Ureaplasmen aufgenommen haben. Auch die ICEHo-I-Gene CDS3 und CDS5 zeigten hohe Homologien zu Genen in einem anderen *U. parvum* Serovar 3 (SV3F4).

Meygret et al. fanden zudem ein homologes CDS22-Gen des *M. hominis*-Isolates 4788 im Genom von *U. parvum* Serovar 14 (ATCC 33697) (Meygret et al., 2019). Ein gemeinsamer Vorfahr beider ICEHo-Elemente wurde in *M. anseris* vermutet. *M. anseris* enthielt die ICEHo-I-Core-Gene CDS3, CDS5, CDS12 und CDS18, das *dcm*-homologe Gen und die ICEHo-II-spezifischen Gene CDS1, CDS16, CDS17, CDS19 und CDS22 sowie das H-Gen.

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In *M. phocicerebrale*, ein in Robben vorkommendes Mykobakterium, fand sich zudem eine verkürzte ICEHo-II-Region, von Gen H bis CDS22 (Henrich et al., 2020).

Um erste Informationen über die Funktionalität der ICEHo-Gene, insbesondere ihrer Relevanz bei Infektionen zu bezüglich gewinnen, wurde von der Mykoplasmenarbeitsgruppe am Institut für medizinische Mikrobiologie und Krankenhaushygiene der Heinrich-Heine-Universität Düsseldorf bereits im Vorfeld dieser Studie ein in vitro HeLa-Zellinfektionsversuch durchgeführt. Dazu wurden HeLa-Zellen mit dem M. hominis-Stamm FBG infiziert und das Expressionsverhalten einzelner ICEHo-Gene analysiert. Der Nachweis der differenziellen Expression von ICEHo-Core-Genen (CDS17) als auch die des dcm-Gens im zeitlichen Verlauf dieser in vitro Infektion wies darauf hin, dass dem ICEHo-Element und insbesondere auch dem dcm-homologen Cargo-Gen eine entscheidende Funktion in Hinblick auf die Pathogenität von M. hominis zugeschrieben werden kann (Haberhausen, 2018). Gegenstand zukünftiger Studien sollte die Funktionsanalyse des dcm-homologen Gens sowie der weiteren, bislang nicht näher beschriebenen ICEHo-spezifischen Cargo-Gene für die pathologische Wirkung von M. hominis sein.

Die hohe Prävalenz des ICEHo-I-Elementes von 41% in den getesteten 150 klinischen M. hominis-Isolaten der Stammsammlung des Institutes entspricht in etwa der angegebenen Prävalenz von 45% bei den 120 getesteten M. hominis-Isolaten der französischen Stammsammlung (Meygret et al., 2019). Meygret et al. gingen von einem vollständigen ICEHo-Element aus, wenn alle vier CDS-Gene des minimalen Rückgrates (CDS 1, CDS5, CDS17, CDS22) sowie das spezifische, von ihnen identifizierte M. hominis-ICE-Modul, eine Anordnung von fünf bis sechs nebeneinanderliegenden CDS-Genen (MhoJ, MhoH, MhoG, MhoF, MhoE und MhoC), vorhanden waren. In 20% ihrer getesteten *M. hominis*-Isolate konnten sie nicht alle vier CDS-Gene detektieren (Meygret et al., 2019). Auch in dieser Studie wurde in drei M. hominis-Isolaten lediglich das CDS14-Gen nachgewiesen. Hier handelte es sich vermutlich um ICEHo-I-Überreste ohne das Vorliegen eines vollständigen ICEHo-I-Elementes. Dahingegen konnte in 14 M. hominis-Isolaten nur das CDS14-Gen nicht detektiert werden und fünf M. hominis-Isolate (942J, 14591, 14851VA, SP16937, 24280VA) entgingen knapp der Nachweisgrenze für das CDS17-Gen. Gründe für das Fehlen einzelner ICEHo-CDS-Gene könnten zum einen die nichtsequenzidentischen Primer oder eine Inhibition der qPCR aufgrund von Mutationen in der Primerregion gewesen sein. Möglicherweise gibt es jedoch auch stammspezifische ICEHo-I-Zusammensetzungen.

Eine ähnlich hohe Prävalenz von MICE-Elementen in tierpathogenen Mykoplasmen (Wiederkäuer) gaben Tardy et al. an. Sie untersuchten vier Mykoplasmenarten und fanden bei 47% (78/166) ein MICE-Element (Tardy et al., 2015). MICE-Elemente kommen somit in human- und tierpathogenen Mykoplasmen vor.

Im Genom von *M. hominis* konnten in dieser Studie bis zu drei Kopien der ICEHo-Elemente gefunden werden. Im *M. hominis*-Isolat 21127VA war das ICEHo-I-Element beispielsweise dreimal, im Isolat 19791 war das ICEHo-II-Element zweimal vorhanden (Henrich et al., 2020). Auch bei der französischen Studie war das ICEHo-I-Element bis zu zweimal im Genom von *M. hominis* nachgewiesen worden (Meygret et al., 2019).Und auch Calcutt et al. und Marenda et al. beschrieben das Vorhandensein von ein- bis zwei Kopien der MICE-Elemente in *M. fermentans* bzw. *M. agalactiae* (Calcutt et al., 2002; Marenda et al., 2006). Die drei ICEHo-I-Elemente im Isolat FBG wiesen auf 27.400 bp lediglich vier Basenpaaraustausche auf, was nur in einem Fall eine Änderung der kodierten Aminosäure zur Folge hatte. Analog dazu waren auch die drei ICE-Kopien in *M. agalactiae* (ICEA<sub>5632</sub>-I/-II/-III) sequenzidentisch (Tardy et al., 2015).

Die Konserviertheit der ICEHo-Elemente innerhalb eines *M. hominis*-Isolates aber auch innerhalb der Spezies deutet darauf hin, dass sich diese Elemente erst in jüngerer Zeit in *M. hominis* verbreitet haben. *M. hominis* hat ICE-Elemente höchstwahrscheinlich von anderen Mykoplasmen und / oder weiteren Bakterien, welche ebenfalls urogenital vorkommen, aufgenommen. Mittels vergleichender Genomik konnte ein großer DNA-Austausch zwischen Mykoplasmenarten identifiziert werden, die denselben Lebensraum besiedeln (Pereyre et al., 2009; Sirand-Pugnet et al., 2007).

Die Ergebnisse dieser Arbeit fügen sich in das Bild des aktuellen Forschungsstandes. Die hohe Prävalenz von ICEHo-Elementen in *M. hominis*, die in dieser Studie an 150 klinischen *M. hominis*-Isolaten qPCR-basiert nachgewiesen wurde, ist ein wichtiger Indikator für die Bedeutung mobiler genetischer Elemente in Bezug auf die Pathogenität von *M. hominis*. Der feste Bestandteil des *dcm*-homologen Gens im ICEHo-I-Element lässt zudem auf eine bedeutende Relevanz dieses Gens schließen. Es gilt jedoch zu beachten, dass es sich sowohl in dieser Studie, als auch in der Studie von Meygret et al. um die Analyse klinischer *M.* 

*hominis*-Isolate handelte. Die Isolate wurden aus Patientenmaterial gewonnen, wobei unbekannt war, ob bei den Patient:innen Symptome vorlagen oder z.B. routinemäßig im Rahmen einer Schwangerschaft ein Abstrich entnommen wurde. Um zusätzliche Hinweise bzgl. der Pathogenität der ICEHo-Elemente zu erhalten, wäre es sinnvoll abzuklären, ob die ICEHo-tragenden Isolate aus symptomatischen Patient:innen gewonnen wurden.

Arbeiten der letzten zehn Jahre legen nahe, dass Mykoplasmen-Genome dynamischer sind als zuvor angenommen (Citti, Baranowski, Dordet-Frisoni, Faucher, & Nouvel, 2020). Seit der Entdeckung der MICEs muss die Theorie der reduktiven Mykoplasmen-Evolution durch Genverlust in Frage gestellt und um den horizontalen Generwerb erweitert werden, welcher nach aktuellem Forschungsstand die treibende Kraft der Mykoplasmen-Pathogenität zu sein scheint.

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## 6 Anhang

			Ct-We	rte						5001	15500	∆Ct-W	erte							
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43       10491       11       42       34       41       42       40       15       40       40       61	42	1114 J	14	3/	3/	35	30	34	15	41	42	23	23	21	23	28	20	28	-	- 7
44       100       10       40       30       41       41       10       50       41       41       10       11 <t< td=""><td>45 11</td><td>1049 J 1627</td><td>11</td><td>42</td><td>54 34</td><td>41 39</td><td>42 //1</td><td>40</td><td>15</td><td>40 39</td><td>40</td><td>51 27</td><td>22</td><td>29</td><td>28</td><td>25</td><td>29</td><td>25</td><td>1</td><td></td></t<>	45 11	1049 J 1627	11	42	54 34	41 39	42 //1	40	15	40 39	40	51 27	22	29	28	25	29	25	1	
46       J2736       12       42       34       37       40       42       12       34       37       30       22       25       28       22       30       25       -       -         46       J2749       13       41       35       36       42       41       13       37       42       28       22       23       29       25       28       29       -       -       -         48       16074       11       38       37       36       40       11       41       38       27       26       25       29       31       29       27       -       -         49       15259 VA       15       38       36       36       40       41       38       27       26       25       29       31       29       27       -       -         50       SP 11657       18       37       36       35       36       40       10       40       40       19       17       17       17       27       22       27       -       -       5       5       18       37       40       40       10       40       40       31 <td>45</td> <td>1027 14277 VA</td> <td>16</td> <td>36</td> <td>33</td> <td>37</td> <td>39</td> <td>40</td> <td>16</td> <td>41</td> <td>41</td> <td>21</td> <td>18</td> <td>20</td> <td>23</td> <td>25</td> <td>20</td> <td>25</td> <td>-</td> <td>1</td>	45	1027 14277 VA	16	36	33	37	39	40	16	41	41	21	18	20	23	25	20	25	-	1
47       J 2749       13       41       35       36       42       41       13       37       42       28       22       23       29       25       28       29       -       -       -         48       16074       11       38       37       36       40       40       11       41       38       27       26       25       29       31       29       27       - <t< td=""><td>46</td><td>J 2736</td><td>12</td><td>42</td><td>34</td><td>37</td><td>40</td><td>42</td><td>12</td><td>34</td><td>37</td><td>30</td><td>22</td><td>25</td><td>28</td><td>22</td><td>30</td><td>25</td><td>-</td><td></td></t<>	46	J 2736	12	42	34	37	40	42	12	34	37	30	22	25	28	22	30	25	-	
48       16074       11       38       37       36       40       40       11       41       38       27       26       25       29       31       29       27       -       -       -         49       15259 VA       15       38       36       36       40       45       15       43       33       24       21       21       26       28       30       18       -	47	J 2749	13	41	35	36	42	41	13	37	42	28	22	23	29	25	28	29	-	-
49       15259 VA       15       38       36       36       40       45       15       43       33       24       21       21       26       28       30       18       -       -       -         50       SP 11657       18       37       36       35       36       40       13       40       40       19       17       17       17       27       22       27       -       -         51       18097       10       42       38       38       40       40       40       32       28       27       30       30       30       30       -	48	16074	11	38	37	36	40	40	11	41	38	27	26	25	29	31	29	27	-	-
50       SP 11657       18       37       36       35       36       40       13       40       40       19       17       17       17       27       22       27       -       -         51       18097       10       42       38       38       40       40       10       40       40       32       28       27       30       30       30       30       -       -       -         52       1189 VA       11       42       37       40       40       11       40       40       31       26       28       29       29       29       28       -       -         53       2539       9       40       40       40       11       40       40       31       31       31       29       31       31       - <td>49</td> <td>15259 VA</td> <td>15</td> <td>38</td> <td>36</td> <td>36</td> <td>40</td> <td>45</td> <td>15</td> <td>43</td> <td>33</td> <td>24</td> <td>21</td> <td>21</td> <td>26</td> <td>28</td> <td>30</td> <td>18</td> <td>-</td> <td>-</td>	49	15259 VA	15	38	36	36	40	45	15	43	33	24	21	21	26	28	30	18	-	-
51       18097       10       42       38       38       40       10       40       40       32       28       27       30       30       30       30       -       -         52       1189 VA       11       42       37       40       40       40       40       31       26       28       29       29       29       28       -       -         53       2539       9       40       40       40       11       40       40       31       31       31       29       31       31       -       -       -         54       639       8       40       37       41       40       40       40       40       32       29       33       32       30       32       30       -       -       -         55       770 J       15       40       38       41       41       17       42       40       25       23       25       26       25       25       23       -       -         56       11798       14       40       35       39       41       41       13       40       40       26       21	50	SP 11657	18	37	36	35	36	40	13	40	40	19	17	17	17	27	22	27	-	-
52       1189 VA       11       42       37       40       40       11       40       40       31       26       28       29       29       29       28       -       -         53       2539       9       40       40       40       11       40       42       31       31       31       29       31       31       -       -       -         54       639       8       40       37       41       40       40       40       40       32       29       33       32       30       32       30       -       -         55       770 J       15       40       38       41       41       13       40       40       25       23       25       26       25       25       23       -       -         56       11798       14       40       35       39       41       41       13       40       40       26       21       25       27       27       26       27       -       -       -	51	18097	10	42	38	38	40	40	10	40	40	32	28	27	30	30	30	30	-	
53       2539       9       40       40       40       11       40       42       31       31       31       29       31       31       -	52	1189 VA	11	42	37	40	40	40	11	40	40	31	26	28	29	29	29	28	-	
54       035       6       40       57       41       40 <td< td=""><td>53</td><td>2539</td><td>9</td><td>40</td><td>40</td><td>40</td><td>40</td><td>40</td><td>11</td><td>40</td><td>42</td><td>31</td><td>31</td><td>31</td><td>31</td><td>29</td><td>31</td><td>31</td><td>-</td><td>-</td></td<>	53	2539	9	40	40	40	40	40	11	40	42	31	31	31	31	29	31	31	-	-
56         11798         14         40         35         39         41         41         13         40         40         26         21         25         27         27         26         27         -	55	770 1	15	40	38	41	40	40	10	40	40	52 25	29	55 25	26	25	52 25	23		
	56	11798	14	40	35	39	41	41	13	40	40	26	21	25	27	27	26	27	_	-

Tabelle 12: Auflistung aller Real-Time PCR-Ergebnisse.

## 6 Anhang

		Ct-We	rte								∆Ct-W	erte		-	0				
Nr.	M. hominis-Isolat	hitA <sup>1</sup>	CDS5	CDS14	CDS16	CDS17.la	dcm	hita <sup>2</sup>	CDS17.Ib	CDS17.II	ICEHo-Gen CDS5	ICEHo-Gen CDS14	ICEHo-Gen CDS16	ICEHo-Gen CDS17.Ia	ICEHo-Gen CDS17.Ik	ICEHo-Gen <i>dcm</i>	ICEHo-Gen CDS17.II	ICEHo-I	ICEHo-II
58	15562 VA	11	40	38	38	40	40	10	40	33	29	28	27	29	30	29	22	-	-
59 60	2839 J	16	38	35	38	40	44	15	38	38	23	19	22	25	23	28	22	-	
60 61	13932	18	44 26	35 26	37 24	41 26	44 25	17	42	43	17	17	19	23 16	25	27 16	25	1	1
62	7835 U	12	26	26	26	26	27	12	26	30	15	15	14	15	15	15	19	_	
63	SS 10	9	34	33	33	34	35	10	35	38	24	24	24	24	24	26	28	-	-
64	8958	9	33	33	32	32	33	9	34	33	24	24	23	23	24	24	24	-	-
65 66	21865 SD 12217	10	27	30	35	35	35	11	31	30	16	20	24	24	20	24	19	-	-
67	21227 VA	13	40	39	38	40	43 40	15	41	37	21	26	25	21	21	24	24	1	1
68	1857 VA	10	11	11	8	10	7	11	8	8	1	1	-2	0	-3	-3	-3	+	+
69	15102 VA	13	13	11	11	12	14	13	12	13	0	-1	-1	-1	-1	1	0	+	+
70	12	13	12	12	12	12	12	13	11	12	0	-1	-1	-1	-1	-1	0	+	+
71	17	16	16	15	15	16	15	18	18	18	-1	-1	-1	-1	0	-1	0	+	+
72	3320	13	20	10	19	10	17	23	23	21	5	0	1	0	0	-1	-1	+	+
74	17781 VA	15	18	15	15	15	14	15	14	13	3	0	0	0	0	0	-1	+	+
75	11	14	13	13	14	13	13	11	9	10	-1	-1	-1	-1	-2	-1	-1	+	+
76	18	11	11	11	11	13	11	10	8	10	0	0	0	2	-2	0	-1	+	+
77 70	19792	17	21	15	16	15	18	16	18	15	4	-1	0	-1	2	2	-1	+	+
78 79	10956 VA	20	22	15	12	15	21	12	24	12	2	-3	-1	-3	7	2	-2	+	+
80	U 7321	13	11	12	12	12	12	18	22	17	-1	-1	-1	-1	3	-1	-1	+	+
81	942 J	17	19	16	18	26	17	12	12	13	3	0	1	9	0	0	0	+	+
82	14591	15	17	15	15	24	14	15	16	14	3	0	1	9	2	-1	-1	+	+
83	14851 VA	20	22	19	21	28	19	20	21	19	2	-1	1	8	1	-1	-1	+	+
84 85	13581	14	30	34	10 31	15 35	36	20	40	18 20	-5	-5 20	-3 17	-5 21	20 12	-1	-2	+	++
86	SP 12982	14	41	35	37	40	36	14	37	12	28	21	24	26	23	23	-2	-	+
87	906 J	14	32	35	31	40	36	12	31	12	18	21	17	26	18	22	0	-	+
88	SP 15329	18	40	33	36	34	37	20	30	19	21	15	17	16	10	19	-1	-	+
89	10428	17	30	29	30	30	31	15	40	14	13	12	13	14	25	15	-1	-	+
90 91	7447 VA 1282 I	10	40 40	39 40	41 40	40 39	41 40	12	40 40	13	30 29	29 29	31 29	30 27	28 22	31 29	-1	1	+
92	7506	12	40	41	39	40	40	17	40	16	28	29	27	28	23	28	-1	-	+
93	727 J	11	40	38	38	40	40	14	40	14	29	27	27	29	26	29	0	-	+
94	2740	17	41	36	35	42	38	15	37	12	24	19	18	25	22	21	-3	-	+
95 06	16046 VA	11	39	37	38	40	38	11	37	9	29	26	27	29	27	27	-2	-	+
96 97	16047 SP 3615	12	30	3/	30	39 41	38 36	13	38 40	11	24 19	24 19	24	27	25	25 22	-2	1	++
98	VO 21379	14	39	32	36	40	39	14	39	14	25	17	21	26	25	25	0	-	+
99	SP 13762	11	40	35	39	40	40	11	42	11	29	24	28	29	31	29	0	-	+
100	18133 VA	17	36	33	36	41	41	17	39	13	19	16	19	24	22	24	-3	-	+
101	16753	11	27	27	26	27	26	11	26	10	16	16	16	16	16	15	-1	-	+
102	13856 SP 10247	11	40 40	41 36	42 39	40 40	42 40	9 15	40 41	9 14	31 29	32 24	33 28	31 29	31 27	33 29	-1	1	++
103	18891	10	9	8	9	10	-0	9	7	40	-1	-2	-1	0	-2	-1	31	+	-
105	682 J	10	11	10	11	11	11	10	10	40	1	0	1	1	0	0	30	+	-
106	4980 V A	10	9	11	8	14	8	12	11	40	-1	1	-1	5	-1	-1	28	+	
107	5486	10	11	12	11	11	10	15	15	41	1	1	1	1	0	0	26	+	
108	8/2J 793 I	13	17	13	13	14 12	13	12	13	41	-1	-1	0 3	-1	-1	-2	29	+	1
105	5486 VA	14	14	14	14	14	14	10	17	40	0	0	0	0	0	0	23	+	-
111	FBG	12	10	11	10	11	11	13	11	43	-1	-1	-2	-1	-2	-1	29	+	-
112	4008 V A	11	12	11	11	11	11	15	16	40	1	1	1	1	1	0	25	+	-
113	15287 VA	11	12	12	11	11	11	11	11	40	0	1	0	0	0	0	29	+	-
114 115	SP 10244	15	13	14	13	14	13	11	9	40	-1	-1	-1	-1	-2	-2	29	+	1
115	982 J	10	10	11	10	10	10	10	20	42	-1	-1	2	-1	1	-2	23	+	
117	11417 VA	19	17	18	20	18	18	18	20	42	-1	-1	1	-1	2	0	24	+	-
118	16098	11	12	12	11	11	11	11	11	41	1	1	0	0	0	0	30	+	-
119	11881	12	12	12	11	12	11	11	11	37	0	0	0	0	0	-1	26	+	-
120	9840	13	14	13	13	13	14	14	13	27	1	0	0	0	0	1	14	+	

## 6 Anhang

		Ct-We	rte								∆Ct-W	/erte							
Nr.	<i>M. hominis</i> -lsolat	hitA <sup>1</sup>	CDS5	CDS14	CDS16	CDS17.la	dcm	hitA <sup>2</sup>	CDS17.Ib	CDS17.II	ICEHo-Gen CDS5	ICEHo-Gen CDS14	ICEHo-Gen CDS16	ICEHo-Gen CDS17.la	ICEHo-Gen CDS17.Ib	ICEHo-Gen <i>dcm</i>	ICEHo-Gen CDS17.II	ICEHo-I	ICEHo-II
121	17875 VA	16	16	15	15	17	16	18	17	40	-1	-1	-1	0	-1	-1	22	+	-
122	6876	19	24	21	19	18	19	19	20	29	5	3	0	0	1	0	10	+	-
123	819	9	9	9	8	9	8	9	7	42	0	0	0	0	-2	-1	33	+	-
124	574	14	13	13	13	12	12	14	12	40	-1	-1	-1	-1	-1	-1	26	+	-
125	22824 VA	11	12	12	12	18	12	11	11	30	1	1	2	7	0	1	19	+	-
126	506 VA	12	12	12	11	18	11	10	10	42	0	0	-1	6	0	-1	31	+	-
127	12948	17	17	24	17	21	17	18	18	40	1	7	0	4	0	0	22	+	-
128	22522	9	11	18	10	12	9	9	9	28	2	9	1	3	0	0	19	+	-
129	10525 U	14	14	25	14	19	14	15	15	42	0	10	0	5	0	0	27	+	-
130	6234	16	17	27	16	23	16	15	15	40	1	11	0	7	0	0	25	+	-
131	2503	10	14	25	9	9	8	21	24	40	4	15	-1	-1	3	-1	19	+	-
132	2477	20	22	35	19	18	21	22	24	37	2	15	-1	-1	2	1	16	+	-
133	1770 J	13	14	34	13	14	12	15	14	39	0	21	-1	1	-1	-1	25	+	-
134	J 2914	16	16	39	14	21	14	17	16	38	0	23	-1	5	-1	-1	21	+	-
135	1071	14	14	38	14	20	13	15	14	40	0	24	0	5	-1	-1	25	+	-
136	2915 J	14	14	37	13	19	11	16	14	31	1	24	-1	5	-1	-2	16	+	-
137	1014	13	11	42	12	19	11	16	14	42	-2	29	-1	6	-2	-2	26	+	-
138	14352 VA	11	12	35	12	17	12	10	11	12	0	24	0	6	1	0	2	+	+
139	SP 10291	10	10	35	10	15	9	10	9	9	0	25	0	5	-1	-1	-1	+	+
140	893 U	11	12	38	11	12	11	15	15	13	0	27	0	1	0	0	-1	+	+
141	12256 U	11	12	38	11	12	12	11	11	10	0	26	0	1	0	0	-1	+	+
142	SP 16937	14	13	40	13	23	12	15	13	13	-2	26	-2	9	-3	-2	-2	+	+
143	1636 VA	12	12	33	35	11	11	11	12	11	0	21	23	-1	1	0	0	+	+
144	18847	17	16	39	36	16	16	17	19	40	-1	22	19	-1	2	-1	22	+	-
145	24280 VA	12	14	29	35	21	13	12	13	39	1	16	23	8	1	1	27	+	-
146	20402	22	18	31	37	19	23	22	39	41	-5	9	15	-3	17	1	19	+	-
147	21127 VA	12	20	10	33	15	9	10	9	42	9	-2	21	3	-1	-3	32	+	-
148	15029	24	40	26	38	40	42	24	39	23	16	2	14	16	15	18	-1	-	+
149	7388 VA	15	42	17	40	40	39	17	40	40	27	2	25	25	23	24	23	-	-
150	11608	10	39	12	39	40	41	23	40	40	28	2	29	30	17	31	17		

	AIG	AA	ТА	ΤA	AA	Т 1	A A	AA	ΤA	AA	AA	GΤ	TO	GΤ	ΤG	AA	ТТ	ΑT	ТТ	GG	CG	GΑ	ΑT	A G	G	GO	:т1	A T 1	: A (	эA.	AA	A G	· · ·		IA	A 1	TA	Ma	Jority
					10					2	0					30	)				40					5	0					60					70	)	
1	A T G	A A	ΤA	TA	A A	T J	A A	A A	11	A /	A.	G I	Τ (	11	ΤG	A A	ΤT	A T	ΤT	GG	C G	G A	A T	A G	G	G (	T 1	(T)	A (	A 2	A A	A G	C	r c	T A	A 1	ΤA	197	791.dcm
1	ATG	AA	TA	TA	A A A A	T I T I	A A	A A A A	T A	AI	A A	GT	T ( T (	i T i T	TG TG	AA	TT	AT	TT	GG	TG	GA GA	A T A T	AG	GI	G	T	IT ITI	A	A A	A A A A	A G A G	c	r c	TA TA	AI	TA	211	127.dcm-1 127.dcm-2
1	A T G	A A	ΤÀ	ΤÀ	a a	T I	I A	A A	T J	A J	A	GΣ	T (	) T	ΤG	A A	τī	A T	ΤT	GG	TG	GA	ΑŤ	A G	G	GÓ	τJ	L T 1	A (	3 A	A A	A G	c :	r c	T A	A 1	TA	211	127.dcm-3
1	A.T.G	A A	T A	T A	AA	T 1	A .	A A	T 1	A 1	A A	GT	T (	S.T.	T G	A A	T 1	A T	TT	G G	CG	GA.	A T	A G	6.0	G (	T.)	1 T 1	A (	3 A	A A	A G	C	C.	T A	A 1	TA	FBO	G.dcm-1
1	A T G	AA	TA	TA	AA	T I	A	A A	TA	A 7	A A	GT	+ S T (	T	T G	AA	TT	A T	TT	GG	CG	G A	A T	A G	G	G	T 1	T 1	A (	5 A	A A	A G	c :	r c	TA	AI	TA	FBG	G.dcm-2 G.dcm-3
1	A T G	A A	T A	T A	A A	ΤJ	۱A	A A	T A	A 1	1 A	GT	T (	3 T	ΤG	A A	TI	A T	ΤT	GG	TG	G A	A T	A G	G 1	G (	T I	1 T 3	A (	G A	A A	A G	C	r c	T A	A I	TA	SPI	10291.dcm
1	A T G	AA	TA	TA	A A	T ]	1 A.	A A	1 2	A 1	1 A	G I	T (	11	T G	A A	1 1	A T	1 1	GG	CG	GA.	A T	AG	G	G	11	111	A (	5 A .	A A	A G	C	t C	T A	A 1	TA	942	2J.dcm
1	ATG	AA	TA	TA	A A	T 1	1. A.	A A A A	T Z	A I	A A	G T	T (	3 T	TG	AA	TI	AI	TT	GG	CG	GA	A I A T	AG	GO	GO	T	T	A	т.А. 3-А	A A A A	A G	c	r c	T A	AI	TA	122	256U.dcm
1	A T G	A A	ŤΆ	T A	A A	T)	A I	A A	T J	A J	A I	GΪ	T (	S T	T G	A A	ΤŤ	ΑŤ	ΤŤ	GG	TG	G A	ΑŤ	A G	G	G (	τJ	LT 1	A (	3 A	A A	A G	C 1	r c	T A	A 1	T A	143	352VA.dcm
1	A.T.G.	A A	TA	TA	A A	T)	A.	A A	T.A	A 7	A A	GT	T. (	9. T.	T G	A A	T 1	A.T	TT	G G	TG	G A	A T	A . 6	G.(	G	(T)	1 T I	A (	3 A.	A A	A G	C 1	r c	T A	A 1	TA	188	847.dcm
	GAA	сс	АТ	СА	AA	с	ст	сс	TA	AI	т	тт	G I	A A	АТ	ТА	тт	GΑ	тт	АТ	GТ	СG	A A	AG	т	AI	A	AAA	A	A A	СА	GТ	A	A A	ΤG	ст	TA	Mat	jority
					80					9	0					10	0				110					13	20					30					14	 0	
71	GIANA	C.C.		<b>.</b>			т.: <b>т</b> .:	C.E.	T		í Longo	TOT		<u>x</u>	ът.	T. 4	UT IT	GI	.T. T.	a	G T	C.E.	Z Z	200						a a	· 	C.T			TIG	C T	1	1 195	791 dcm
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71	GAA	CC	A T	CA	A A	C (	Т	C C	T J	A 1	T I	ΤT	G ]	A	A T	T A	TI	GA	TT	ΑT	GΤ	C G	A A	A G	T	A 1	A J	L A J	L A J	a 🗕	C A	GI	A 1	A A	TG	C I	T A	211	127.dcm-2
71	GAA	0.0	A T	CA	A A	0.0	I T	C.C.	TZ	A	Т	TT	G 1	Α.Α. Ι Α.	A T	TA	TT	GA	TT	AT	GT	C G	A A	AG	ТС	A	A		A	A A	CA.	GT	A /	а.а. а.а.	TG	C I	T A	211 FB0	127.dcm-3 G.dcm-1
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71	GAA	CC	A T	CA	A A	С (	T	C C	TZ	A	L. L.	1.1. T.T	G 7	A A	A T	TA	тт	GA	T T	A T	GT	C G	A A	AA	TO	а. А.1	A	A.A.7	. A 1		CA	GT	AI	1.A.	TG	СТ	1 А . т. д.	942	10291.acm 2J.dcm
71	GAA	C C	A T	C A	A A	<b>C</b> (	T	C C	T A	A 1	T	ΤТ	G 1	A A	ΑT	TA	ТТ	GA	ТТ	ΑT	GΤ	C G	A A	A G	T (	Α ]	AJ	AI	AI	G			A 1	A A	TG	C 1	TA	109	936VA.dcm
71	GAA	CC	A T	CA	R A	C (	T	CC	T J	A 1	T	ΤŢ	G 1	I.A.	A T	TA	TT	GA	TT	A T	GT	C G	A A	AG	T (	A 1	Α.	L A J	A ]	A A	CA	GT	2 1 	1.2	TG	C 1	TA	122	256U.dcm
71	GAA	CC	AT	CA	AA	C	T	CC	TA	A 1	T	ТТ	GI	A	A T	TA	ТТ	GA	TT	AT	GT	CG	AA	A G	T C	A	A J		A J	-1- A A	C A	GT	A	A A	TG	CI	TA	188	847.dcm
	TAA	ΤG	CA	ΑT	A T	A 1	C A	AC	G A	TI	Т	ТТ	A (	C A	AA	C C	ТТ	ΤA	GΑ	ΤA	TA	AG	AG	ΑT	ΤI	T 1	C 1	A C 1	T (	СС	ТА	<u>A</u> T	A I	A T	GΤ	ΤA	AT	Maj	jority
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141	TAA	TG	C A	A 1 A T	A 1 A 1	A	A A	AC	GA	1	1 1	ΤT	A (	A A	AA	C C	11	TA	GA	TA	T A	AG	AG	AT	1 / T )	T	c i	C 1	1	Ċ	TA	A T A T	AJ	ι <u>τ</u>	GT	1 8	AT	FBG	G.dcm-2 G.dcm-3
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141	TAA	TG	C A	A T	A I	A	A	A C	G A	T	T.	ΤŢ	A (	A	A A	C C	TT	TA	GA	TA	TA	A G	A G	A A	T.7	Ţ	C ]	( <u>C</u> 1	. T. (	Ç.Ç	T A	A T	A	V.T.	G T	T 7	A.T.	188	847.dcm
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Tabelle 13: Sequenzalignment der *dcm*-homologen Gene in ICEHo-I-positiven *M. hominis*-Isolaten.

	ATTAAGGCATTAAAT	GATCTAGGATA	TGTTAGCCATT	ACAAAATAATTA	ATTCATTAGAT	IGTGGAATTC M	Majority
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	CCCAAAGTAGAAATA 500	GAGTTTTTACT 510	GTTTCTATTAA 520	<u>TAAAAACTATTT</u> 530 5	<u>A A A A C A A T T C A I</u> 40 550	ATAATTTAGA M 560	Majority
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	TACATTTAATTGTCT 570	AAACAATAAAT 580	ATAAAAATATA	AATGATTTTT-A	CAGCCAAATGT 2 10 620	ATAAATCCA M	lajority
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## 6 Anhang

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Tabelle 14: Sequenzalignment der CDS17.I-Gene in ICEHo-I-positiven M. hominis-Isolaten.

	TTAGCGGTATTT	ааастааатддтст	TAATATTTGAA	ACGAGGATGAAC	стаастсетеааесат	TTATTG Majority
	430	440	450	460	470 480	490
418 419 419 418 419 421 421 421 421 415 419 418 421	$ \begin{array}{c} 1 & 1 & A & C & C & C & C & X & Y & Y & Y \\ 1 & T & A & C & C & C & C & T & A & T & T \\ 1 & T & A & C & C & C & C & T & A & T & T \\ 1 & T & A & C & C & A & C & T & A & T & T \\ 1 & T & A & C & C & A & C & T & A & T & T \\ 1 & A & C & C & A & C & T & A & T & T \\ 1 & A & C & C & A & C & T & A & T & T \\ 1 & A & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & A & C & C & C & C & C & T & A & T & T \\ 1 & C & C & C & C & C & T & A & T & T \\ 1 & C & C & C & C & C & T & A & T & T \\ 1 & C & C & C & C & C & T & A & T & T \\ 1 & C & C & C & C & C & T & A & T & T \\ 1 & C & C & C & C & C & T & C & T & C \\ 1 & C & C & C & C & C & T & C & T & C \\ 1 & C & C & C & C & C & T & C & C & C & T & C \\ 1 & C & C & C & C & C & C & T & C & C \\ 1 & C & C & C & C & C & T & C & C & C & C$				$\begin{array}{c} \begin{array}{c} \mathbf{A} = \mathbf{A} = \mathbf{C} + \mathbf{C} = \mathbf{C} = \mathbf{A} = \mathbf{A} = \mathbf{C} = \mathbf{C} = \mathbf{A} = \mathbf{C}	1         1
	ATAGTTTTGCAA	AAACTTTAAATATA	CTTACTTACAA	AGTTTCTTTG	TAAACTTGAAGAAAA	AGTAAA Majority
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  | сса  | AAA   | ΑT   | ATA  
  | CA   | AG   | A A 1  | r A 1   
   | ΤG  | CA   | ΑT   | GA   | тт   
  | AG   | ΑT   | GCI  | I A J   | AAI   
  | ТТ         | GG                   | AG  | TI   | GA   | AA         | A 1                                      | Т   | CAT  | Majority   |
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  | C A<br>C A   | AG   | AA<br>AA   | A 1<br>A 1  
   | T G<br>T G  | CG   | A C  | A A<br>G A   | I I I<br>I I I   
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  | T T<br>T T | GG                   | A G                                       | T 1<br>T 1   | GA<br>GA   | A A<br>A A | A 1<br>A 1                               | T<br>T  | C A T<br>C A T   | 14352VA.CDS17.I<br>18847.CDS17.I   |
| 839  | GGTA  | TTGI   | TAG  
  | CC   | AA  | AT   | A T A  
  | CA   | AG   | A A  | AI  
   | ΤG  | CA   | A T  | GA   | TTT  
  | A G  | A T  | GCI  | F A J   | A I   
  | ΤŢ         | GG                   | Ξ¢  | ŢŢ   | GA   | AA         | A 1                                      | ΓŢ  | CAT  | 19791.CDS17.I  |
| 839  | GGTA  | TTG2   | TAG  
  | сc   | A A A   | A T  | A T A  
  | C A  | À G  | A A  | C A 1   
   | ŤG  | CG   | à C  | AA   | T T T  
  | A G  | A T  | G C 1  | r a i   | 1 A 1   
  | ŤŤ         | GG                   | A 0                                       | Ť 1  | G A  | A A        | A 1                                      | Ċ Ť   | C A T  | 21127.CDS17.I-1<br>21127.CDS17.I-2   |
| 839<br>841   | GGTA  | TTG1   | TAG  
  | CC   | A A   | A T  | ATA  
  | CA   | A G  | AA<br>AA   | 1 A 1   
   | T G   | CG   | AC   | A A  | I I I  
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  | 1 1<br>T T | GG                   | AC  | 11   | GA   | A A        | A 1                                      |   | A T  | 21127.CDS17.I-3  |
| 841  | GGTA  | TTGI   | TAG  
  | сċ   | AA  | AC   | ATA  
  | C A  | A G  | A A  | A   
   | ΤG  | C A  | A T  | GA   | ГΤΤ  
  | A G  | A T  | GCI  | I A I   | AI  
  | ΤĪ         | GG                   | A G                                       | τı   | GA   | A A        | A 1                                      | τī  | CAT  | FBG.CDS17.I-2  |
| 841<br>834   | GGTA  | TTGJ   | TAG  
  | CC.  | AA  | AC   | ATA  
  | CA   | AG   | AA   | A 1<br>A  
   | TG<br>TG  | CA<br>CA   | A T  | GA   | Г.Т.Т.<br>Т.Т.Т.   
  | AG   | A T<br>A T   | G C 1<br>G C 1   | r AJ  | LA I  
  | TT         | GG                   |   | 1 1<br>1 1   | GA<br>GA   | A A<br>A A | A 1<br>A 1                               | C T   | C A T<br>C A T   | FBG.CDS17.I-3<br>SP10291.CDS17.I   |
| 839  | GGTA  | TTGI   | TAG  
  | C C J  | AA  | A T  | A T A  
  | CA   | AG   | A A  | A 1   
   | TG  | C A  | A T  | G A  | ТТТ  
  | A G  | A T  | G C 1  | F A 7   | A A   
  | TT         | GG                   | A C                                       | ΤI   | G A  | A A        | A 1                                      | T T   | CAT.   | 942J.CDS17.I   |
| 841  | GGIA  | TTG7   | TAG  
  | TC   | 1 A A<br>1 A A  | AC   | A I A<br>A T A   
  | C A  | A G  | A A<br>A A   | CA 1  
   | T G   | CG   | Â.C  | AA   | TTT  
  | A G  | A I<br>A T   | GCI  | LAI<br>LAI  | 1 A 1<br>1 A 1  
  | T T        | GG                   | A C                                       | T 1  | G A  | A A        | A 1                                      | C T   | C A I  | 12256U.CDS17.I   |
|  | тада  | таас   | тта  
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  | ΔΔ   | АТ   | атт  | гти   |   
  | АА         | тс                   |   | те   | зат  | аа         | тт                                       | га  | сст  | Majority   |
|  |   |  | 920  
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| 908  | TAGA  | TAAO   | TTA  
  | ΤT   | A T   | TT   | A T A  
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| 909  | TAGA  | TAAO   | TTA  
  | TT   | AT  | TT   | ATA  
  | AT   | C A  | AG.  |   
   | TT  | AT   | TA   | AA   | GAT  
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  | AA         | TT                   | A A                                       | T (  | A T  | A A        | TI                                       | F A   | I G T  | 18847.CDS17.I  |
| 908  | TAGA  | TAAO   | T.T.A  
  | ΤŤ   | C A T   | ΤŤ   | A T A  
  | A T  | C A  | A G  | T Z   
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  | A A        | Ť C                  | A A                                       | Τ¢   | AI   | A A        | T 1                                      | C A   | CGI  | 21127.CDS17.I-1  |
| 909<br>909   | TAGA  | TAAO   | TTA  
  | ТТ   | TAT   | TT   | A T A<br>A T A   
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  | AA         | TC                   | AA  | T (  | A T<br>A T   | AA         | ТТ                                       | L A   | CGT  | 21127.CDS17.I-2<br>21127.CDS17.I-3   |
| 911  | TAGA  | TAAO   | ΤΤΑ  
  | TT   | TAT   | ΤI   | ATA  
  | A T  | CA   | A A  | TI  
   | TT  | AT   | ΤA   | AA   | GAT  
  | A A  | A T  | A T I  | ΓTΙ   | L C A   
  | AA         | TC                   | A A                                       | T (  | A T  | A A        | Τ1                                       | A   | CGI  | FBG.CDS17.I-1  |
| 911  | TAGA  | TAAO   | TTA  
  | T T  | A I<br>A T  | T T  | A I A<br>A I A   
  | AT   | C A  | AA   | 1 J<br>1 J  
   | TT  | A I<br>A T   | TA   | AA   | SAI  
  | A A.   | A.T.   | A T 1  | r T i   |   
  | AA         | T.C                  | AA  | T (  | A I  | AA         | T 1                                      | A   | <u>c</u> g t   | FBG.CDS17.1-2<br>FBG.CDS17.1-3   |
| 904<br>909   | TAGA  | TAAO   | ТТА  
  | TT   | A T<br>A T  | TT   | ATA  
  | A T  | CA   | AG   | T 7   
   | TT  | AT   | TA   | GAO  | GAC  
  | AA<br>AA   | AT<br>AT   | A T T<br>A T T   | FT7   |   
  | A A        | TC                   | A 2                                       | T (  | A T  | A A        | TI                                       | A   | TGT<br>TGT   | SP10291.CDS17.I<br>942J.CDS17.I  |
| 908  | TAGA  | TAAO   | T T A  
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| 911  | T.A.G.A.  | TARA   | T.T.A  
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|  | AAAA  | ATCA   | ATT  
  | GT   | ΓΤΑ   | AA   | CAA  
  | AT   | ΤG   | сси  | A T I   
   | ΤG  | AA   | ТТ   | G T (  | CTG  
  | ΑT   | A A  | ATO  | G A I   | АТС   
  | AA         | AA                   | сс  | TI   | ΤΑΊ  | ТТ         | тс                                       | СТ  | ATT  | Majority   |
|  |   |  | 990  
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  | A I<br>A T   | TA   | C C 1  | I T T   
   | T G   | A A<br>A A   | T T  | GI   | CTG  
  | A I<br>A I   | A A<br>A A   | A I C<br>A I C   | 5 A 1<br>5 A 1  | I I C   
  | A A<br>A A | A A<br>A A           | CI  | T T  | A I<br>A T   | T T        | T C                                      | T T   | A I I<br>A I T   | 18847.CDS17.I  |
| 979<br>978   | AAAA<br>AAAA  | ATCI<br>ATCI   | A T T  
  | GT   | CTA<br>TA   | A A<br>A A   | CAA  
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| 979  | AAAA  | A T C I  | ATT  
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  | A A        | AA                   | C C                                       | Τ 1  | A.T  | ΤŢ         | T  | T   | A T T  | 21127.CDS17.I-2  |
| 979<br>981   | AAAA  | ATCI<br>ATCJ   | A T T<br>A T T   
  | GI   | TA<br>TA  | AA<br>AA   | C A A<br>C A A   
  | A T<br>A T   | T G  | C C J  |   
   | TG<br>TG  | AA<br>AA   | T T<br>T T   | GIU  | CIG<br>CIG   
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| 981  | AAAA  | A T C Z  | ATT  
  | GT   | TA  | AA   | CAA  
  | A T  | TG   | C C I  | 1 T 1   
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  | AA         | AA                   | C C                                       | 11   | A 1  | 11         | T C                                      | Ţ   | A T T  | FBG.CDS17.I-2  |
| 974  | AAAA  | ATCI   | ATT  
  | GT   | TA  | A A  | CAA  
  | T  | TA   | C C J  | Ϋ́Τ Τ   
   | T G   | A A  | ΤT   | GI   | CTG  
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| 979<br>978   | A A A A<br>A A A A  | ATCI<br>ATCI   | ATT<br>ATT   
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  | A T<br>A T   | T G<br>T G   | C C 1<br>C C 1   | 1 T 3   
   | TG<br>TG  | A A<br>A A   | T T<br>T T   | GTO  | c r c<br>c – lc  
  | A T<br>A T   | AA<br>AA   | ATC<br>ATC   | 5 A 1<br>5 A 1  | 1 T C<br>1 T C  
  | A A<br>A A | A A<br>A A           |   |  | A T<br>A T   | T T<br>T T | T C<br>T C                               | T<br>T  | A T T<br>A T T   | 942J.CDS17.I<br>10936VA.CDS17.I  |
| 981  | A.A.A.A   | ATC7   | ACT  
  | GT   | T A   | A .A   | C A A  
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  | A.T.   | A.A.   | A T (  | - A 1   | ι.Τ. (  
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  |            |                      |   |  |  |            |  |   |  |  |
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  |            |                      |   | _  |  |            |  |   | _  |  |
|  | AATG  | GAAC   | TTG  
  | TA   | TAT   | GA   | AAT  
  | AA   | ТТ   | TC   | <u>c c 1</u>  
   | TG  | AA   | AT   | AA   | CAA  
  | тт   | тт   | GC(  | CA  | A T J   
  | AAA        | AZ                   | AAJ                                       | A T  | G G I  | A C I      | AA                                       | A T   | CCA  | _ Majority   |
| 1047   | AATG  | GAAC   | <u>TTG</u><br>1060   
  | TA   | <u>r a t</u>  | G A  | <u>A A T</u><br>1070<br>A A T  
  | A A  | <u>TT</u>  | TC(  | <u>c c 1</u><br>10  
   | ст с<br>80  | AA   | A T  | AA   | <u>CAA</u><br>1090   
  | TT   | T T  | G C (  | <u>CA</u><br>11   |   
  | AAA        | AI                   |   | <u>ат</u><br>11<br>- ФО  |  |            | A  | A T   | <u>сса</u><br>11:<br>Сса   | _ Majority<br>20   |
| 1047<br>1049   | AATG<br>AATG<br>AATG  | G A A C<br>G A A C<br>G A A C  | T T G<br>1060<br>T T G<br>T T G  
  | TA<br>TA<br>TA   | TAT<br>TAT  | GA<br>GA<br>GA   | <u>A A T</u><br>1070<br>A A T<br>A A T   
  | A A<br>A A<br>A A  | TT<br>TT<br>TT   | TC(<br>TC(<br>TC)  | 10<br>2 C   
   | стс<br>80<br>стс<br>тс  | A A<br>A A<br>A A  | A T<br>A T<br>A C  | A A<br>A A<br>A A  | <u>САА</u><br>1090<br>САА<br>САА   
  | T T<br>T T<br>C T  | TT<br>TT<br>TT   | G C (<br>G C (<br>G C )  | СА<br>11<br>СА<br>СА  | ATI<br>100<br>ATI<br>ATI  
  |            |                      |   | AT<br>11<br>- T  | G G I<br>110<br>G G I<br>G G I   |            | A A I<br>A A                             | AT<br>AT<br>AT  | <u>сса</u><br>11<br>сса<br>сса   | Majority<br>20<br>14352VA.CDS17.I<br>18847.CDS17.I   |
| 1047<br>1049<br>1049<br>1048   | AATG<br>AATG<br>AATG<br>AATG<br>AATG  | G A A C<br>G A A C<br>G A A C<br>G A A C<br>G A A C  | T T G<br>1060<br>T T G<br>T T G<br>T T G<br>T T G  
  | TA<br>TA<br>TA<br>TA<br>TA   | TAT<br>AT<br>AT<br>AT   | GA<br>GA<br>GA<br>GA   | <u>A A T</u><br>1070<br>A A T<br>A A T<br>A A T<br>A A T<br>A A T  
  | A A<br>A A<br>A A<br>A A<br>A A  | TT<br>TT<br>TT<br>TT<br>TT   | <u>T C (</u><br>T C (<br>T C (<br>T C (<br>T C (   | C C 1<br>10<br>C C<br>C C<br>C C<br>C C   
   | 5 T G<br>80<br>7 T G<br>7 T G<br>7 T G  | A A<br>A A<br>A A<br>A A<br>A A                                    | A T<br>A C<br>A C<br>A T   | AA<br>AA<br>AA<br>AA<br>AA   | <u>САА</u><br>1090<br>САА<br>САА<br>САА<br>САА   
  | T T<br>C T<br>C T<br>T T   | TT<br>TT<br>TT<br>TT<br>TT   | G C (<br>G C (<br>G C (<br>G C )<br>G C (  | CA<br>11<br>CA<br>CA<br>CA<br>CA  | ATI<br>LOO<br>ATI<br>ATI<br>ATI   
  |            | AJ<br>AJ<br>AJ<br>AJ | A A I<br>A A I<br>A A I<br>A A I<br>A A I | 11<br>- 11<br>- 17<br>- 17<br>- 17   | G G J<br>110<br>2 G J<br>5 G J<br>5 G J  |            | A A I<br>A A<br>A A<br>A A               | AT<br>AT<br>AT<br>AT  | <u>сса</u><br>11<br>сса<br>сса<br>сса<br>сса   | Majority<br>20<br>14352VA.CDS17.I<br>1847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1  |
| 1047<br>1049<br>1049<br>1048<br>1049   | A A T G<br>A A T G   | G A A C<br>G A A C   | T T G<br>1060<br>T T G<br>T T G<br>T T G<br>T T G<br>T T G  
   | TA<br>TA<br>TA<br>TA<br>TA<br>TA   | IAT<br>AT<br>AT<br>AT<br>AT   | GA<br>GA<br>GA<br>GA<br>GA   | A A T<br>1070<br>A A T<br>A A T<br>A A T<br>A A T<br>A A T<br>A A T   
   | A A<br>A A<br>A A<br>A A<br>A A<br>A A   | TT<br>TT<br>TT<br>TT<br>TT<br>TT   | <u>T C (</u><br>T C (<br>T C (<br>T C (<br>T C (<br>T C (  | 10<br>10<br>2 C<br>2 C<br>2 C<br>2 C<br>2 C<br>2 C<br>2 C<br>2 C   
  | CTG<br>80<br>CTG<br>CTG<br>CTG  | A A<br>A A<br>A A<br>A A<br>A A<br>A A                             | A T<br>A C<br>A C<br>A T<br>A T<br>A T   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | C A A<br>1090<br>C A A<br>C A A<br>C A A<br>C A A<br>C A A  
   | TT<br>CT<br>CT<br>TT<br>TT   | TT<br>TT<br>TT<br>TT<br>TT<br>TT   | G C (<br>G C (<br>G C (<br>G C (<br>G C (  | CA<br>11<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA  | ATI<br>LOO<br>ATI<br>ATI<br>ATI<br>ATI   
   |            |                      |   | <u>T</u><br>11<br>- T<br>T<br>T<br>T<br>T  | G G I<br>110<br>G G I<br>G G I<br>G G I<br>G G I   |            | A A I<br>A A<br>A A<br>A A<br>A A<br>A A | AT<br>AT<br>AT<br>AT<br>AT  | <u>ССА</u><br>11<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА  | Majority<br>20<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I-2  |
| 1047<br>1049<br>1049<br>1048<br>1049<br>1049<br>1049   | A A T G<br>A A T G  | G A A (<br>G A A (   | T I G<br>1060<br>T T G<br>T I G<br>I I G<br>I I G<br>I I G<br>I T G<br>I T G<br>T I G<br>T I G   
  | TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA   | TAT<br>AT<br>AT<br>AT<br>AT<br>AT   | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   | <u>A A T</u><br>1070<br>A A T<br>A A T   
  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT                                     | <u>T C (</u><br>T C (<br>T C (<br>T C (<br>T C (<br>T C (<br>T C (   | C C 1<br>10<br>C C 1<br>C C C C | 5 T G<br>80<br>7 T G<br>7 T G<br>7 T G<br>7 T G<br>7 T G  
   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A               | A T<br>A C<br>A C<br>A C<br>A T<br>A T<br>A T<br>A T   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | C A A<br>1090<br>C A A<br>C A A<br>C A A<br>C A A<br>C A A<br>C A A   | T T<br>C T<br>C T<br>T T<br>T T<br>T T<br>T T                          
                                     | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  | G C (<br>G C (<br>G C (<br>G C (<br>G C (<br>G C (   | C A<br>11<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A  | ATJ<br>ATJ<br>ATJ<br>ATJ<br>ATJ<br>ATJ<br>ATJ  |            |                      | A A I<br>A A I<br>A A I<br>A A I<br>A A I | A T<br>11<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T      | G G I<br>110<br>G G I<br>G G I  
  |            | A A I<br>A A<br>A A<br>A A<br>A A<br>A A | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  | <u>C C A</u><br>11:<br>C C A<br>C C A<br>C C A<br>C C A<br>C C A<br>C C A<br>C C A   | Majority<br>20<br>14352VA.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-3<br>FFG.CDS17.I-1   |
| 1047<br>1049<br>1049<br>1048<br>1049<br>1049<br>1051<br>1051   | A A T G<br>A A C G<br>A A C G<br>A A C G<br>A A C G  | GAAC<br>GAAC<br>GAAC<br>GAAC<br>GAAC<br>GAAC<br>GAAC<br>GAAC   | T T G<br>1060<br>T T G<br>T T G   
  | TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA   | TAT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT   | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   | A A T<br>1070<br>A A T<br>A A T  
   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T                | T C (<br>T C () | C C 1<br>10<br>C C<br>C C<br>C C<br>C C<br>C C<br>C<br>C C<br>C<br>C<br>C<br>C<br>C<br>C  | T G<br>80<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C   
   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | A T<br>A C<br>A C<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | CAA<br>1090<br>CAA<br>CAA<br>CAA<br>CAA<br>CAA<br>CAA<br>CAA<br>CAA<br>CAA  |  | <u>T</u> T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T             
                      | G C (<br>G C )<br>G C (<br>G C )<br>G C (<br>G C )<br>G C (<br>G C )<br>G C (<br>G C )   | CA<br>11<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA  | ATI<br>LOO<br>ATI<br>ATI<br>ATI<br>ATI<br>ATI<br>ATI   |            |                      |   | <u>T</u><br>11<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T | G G I<br>10<br>3 G I<br>5 G I<br>5 G I<br>5 G I<br>5 G I<br>5 G I<br>5 G I<br>5 G I<br>5 G I<br>5 G I   
  |            |  | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  | <u>ССА</u><br>11:<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА  | Majority<br>20<br>14352VA.CD517.I<br>18847.CD517.I<br>21127.CD517.I-1<br>21127.CD517.I-2<br>21127.CD517.I-2<br>FBG.CD517.I-1<br>FBG.CD517.I-3  |
| 1047<br>1049<br>1049<br>1048<br>1049<br>1051<br>1051<br>1051   | A A T G<br>A A C G<br>A A C G<br>A A C G<br>A A C G<br>A A C G<br>A A C G  | G A A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A (<br>G A ()))))))))))))))))))))))))))))))))))  | T T G<br>1060<br>T T G<br>T T G   
   | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A   | T A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A  | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   | A A T<br>1070<br>A A T<br>A A T   
  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   |  | TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC   |   | T G<br>80<br>T T G<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C               
   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | A T<br>A C<br>A C<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | C A A<br>1090<br>C A A<br>C A A  
  | T T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T                          | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T   | G C (<br>G C (<br>G C (<br>G C (<br>G C (<br>G C (<br>G C (  | C A<br>11<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A  | ATI<br>LOO<br>ATI<br>ATI<br>ATI<br>ATI<br>ATI<br>ATI   |            |                      |   | 11<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T<br>- T       
     | G G J<br>110<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J  |            |  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | C C A<br>11<br>C C A<br>C C A   | Majority<br>20<br>14352VA.CDS17.I<br>18847.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-3<br>SPI0291.CDS17.I-3<br>SPI0291.CDS17.I-3   |
| 1047<br>1049<br>1048<br>1049<br>1049<br>1051<br>1051<br>1051<br>1054<br>1049   | AATG<br>AATG<br>AATG<br>AATG<br>AATG<br>AATG<br>AATG<br>AATG  | G A A (<br>G A A   | T I G<br>1060<br>T T G<br>T G  | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A   | T A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A   
  | G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A   | A A T<br>1070<br>A A T<br>A A T  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T         |  
   |   | C T G<br>80<br>C T G<br>C T G   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | A T<br>A C C T<br>A A A T<br>A A T<br>A T<br>A A T<br>A T<br>A T<br>A T<br>A   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | <u>С А А</u><br>1090<br>С А А<br>С А А   
   |  | T T<br>T T T<br>T T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  | G C (<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C   
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  |            |  | A T TTITTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT   | <u>С С Да</u><br>11.<br>11.<br>ССОСССССССССССССССССССССССССССССССССС   | Majority<br>20<br>14352VA.CDS17.I<br>18847.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-3<br>SP10291.CDS17.I<br>1942J.CDS17.I<br>1942J.CDS17.I<br>1952VA.CDS17.I<br>18847.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I-3<br>SP10291.CDS17.I<br>21127.CDS17.I-3<br>SP10291.CDS17.I<br>21127.CDS17.I-3<br>SP10291.CDS17.I<br>1953VA.CDS17.I<br>1953VA.CDS17.I<br>1953VA.CDS17.I<br>1953VA.CDS17.I<br>1953VA.CDS17.I<br>1953VA.CDS17.I<br>1953VA.CDS17.I<br>1953VA.CDS17.I<br>1953VA.CDS17.I<br>1953VA.CDS17.I<br>1953VA.CDS17.I<br>1953VA.CDS17.I<br>19591.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I<br>21127.CDS17             |
| 1047<br>1049<br>1049<br>1049<br>1051<br>1051<br>1051<br>1044<br>1047<br>1051<br>1119<br>1119<br>1119<br>1112<br>1112<br>1121<br>1121<br>11   | <u>A A T G</u><br><u>A A A T G</u><br><u>A A A T G</u><br><u>A A A A T G</u><br><u>A A A A A A G</u><br><u>A A A A A A A G</u><br><u>A A A A A A A A A A A A A A A A A A A </u>   |  | T I G<br>1060<br>T I S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T T S<br>T S  | TA<br>TAATTAA<br>TTAAATTTAA<br>TTAAATTTAA<br>ATTTAAAATT<br>AATTTAA<br>AATTTAAAATT<br>TGG<br>TTGG<br>TTGG   
   | T         T         T         A           T         T         T         T         T         T         A           T         T         T         T         T         T         T         A         T         A         T   | GA<br>CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC   | A         T           1070         A           A         T           1070         A           A         T           1070         A           A         T           10         A           A         T           11         A           0         C           111         C           0         C           111         C           0         C           11         C           12         C <td< td=""><td>A A A A A A A A A A A A A A A A A A A</td><td>TT<br/>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT</td><td>T C C T C C C C C C C C C C C C C C C C</td><td></td><td></td><td>A A A A A A A A A A A A A A A A A A A</td><td>A T<br/>TCCTTTTTTTCTTTCTTTTTTTTTTTTTTTTTTTTT</td><td>A A<br/>A A A A A A A A A A A A A A A A A A</td><td><u>C A A</u><br/>1090 A<br/>C A A A A A<br/>C C C C A A A A<br/>A A A A A A<br/>C C C C C C C C C C C C C C C C C C C</td><td>TT<br/>TCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT</td><td>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT</td><td>G C (<br/>G C C C C C C C C C C C C C C C C C C C</td><td>C A<br/>111<br/>C C A<br/>C C C A<br/>A A<br/>A A<br/>A A<br/>A A<br/>A</td><td>A T 1<br/>A T 3<br/>A /td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>A T TITITITITITA A AAAAAAAAAAAAAAAAAAAA</td><td><u>С С Ла</u><br/>11.<br/>ССОСССССССССССССССССССССССССССССССССС</td><td>Majority<br/>20<br/>14352VA.CDS17.I<br/>18847.CDS17.I<br/>21127.CDS17.I-1<br/>21127.CDS17.I-2<br/>21127.CDS17.I-2<br/>21127.CDS17.I-2<br/>21127.CDS17.I-3<br/>FBG.CDS17.I-3<br/>SP10291.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>12256U.CDS17.I-1<br/>18847.CDS17.I-1<br/>21127.CDS17.I-2<br/>21127.CDS17.I-2<br/>11256U.CDS17.I-1<br/>FBG.CDS17.I-3<br/>SP10291.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>10936VA.CDS17.I<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I-3<br/>21127.CDS17.I</td></td<>   | A A A A A A A A A A A A A A A A A A A  | TT<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT                                  | T C C T C C C C C C C C C C C C C C C C  
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  | Majority<br>Majority<br>14352VA.CDS17.I<br>19847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>176G.CDS17.I-3<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>12256U.CDS17.I<br>12432VA.CDS17.I<br>19791.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I   |
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   |            |                      |   |  |  |            |  | A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  |  | Majority<br>Majority<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-3<br>SP10291.CDS17.I<br>19422.CDS17.I<br>19422.CDS17.I<br>19540.CDS17.I<br>1256U.CDS17.I<br>1256U.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-1<br>19594.CDS17.I-1<br>19594.CDS17.I-1<br>19594.CDS17.I-1<br>19594.CDS17.I-1<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10050VA.CDS17.I<br>10050VA.CDS17.I<br>10050VA.CDS17.I<br>10050VA.CDS17.I<br>10050VA.CDS17.I<br>10050VA.CDS17.I<br>10050VA.CDS17.I<br>10050VA.CDS17.I<br>10                                     |

|  | TTI  | ΓGΤ   | ΑT   | CA  | AA  
   | AG  | СС   | AC   | ΤG  | AC   | СТ   | ΤG  | СТ   | G I   | AT   
   | ΤΑ  | ΑA  | TAG  | A C   | A G C          | C A T   | AG  
  | A A   | TT  | GC   | ТΑ   | GAI  
  | AT   | AT   | AG  | CI   | A A (  | <u>STA</u>   
  | Majority   |
|--|--|---|--|---
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--|--|---|--|
|  |  |   |  |   | 1270  
   |   |  |  | 1   | 280  |  |   |  |   | 1290   
   |   |   |  | 1300  | )              |   |   
  |   | 1310  |  |  |  
  | 13   | 20   |   |  |  | 133  
  | 0  |
| 1256   | T T I  | GT  | A T  | C 2   | A A   
   | A G   | C C  | A C  | CĞ  | A C  | CΤ   | ΤC  | ΤŢ   | G 1   | A T  
   | TA  | A A   | TA C   | A C   | A G (          | A T   | A G   
  | A 1   | TT  | GC   | ΤA   | G A J  
  | L A T  | A I  | A G   | C J  | <b>A</b> (   | T A  
  | 14352VA.CDS17.1  |
| 1259   | T.T.1  | C G C   | A T  | C 1   | A A   
   | A G   | C.C.   | A C  | AG  | A C  | C.T.   | TC  | ΤĨ   | G 1   | AT   
   | TA  | A A   | TAC  | AG  | A. G. (        | A T   | A G   
  | A A   | TT  | G.C.   | TA.  | G.A.1  
  | AT   | AT   | A G   | C 1  | A (  | TA   
  | 18847.CDS17.I  |
| 1250   | TTI  | GT  | A T  | C A   | A A   
   | AG  | сc   | A C  | cle   | AC   | CΤ   | TG  | CΪ   | GI  | AT   
   | T A   | A A   | TAC  | A C   | L G C          | AT  | AG  
  | A A   | ΤĪ  | GČ   | T A  | GA7  
  | AT   | A T  | A G   | Ċ I  | 1 A (  | T A  
  | 21127.CDS17.I-J  |
| 1259   | T T I  | GT  | A T  | C J   | A A   
   | AG  | сс   | A C  | CG  | A C  | CΤ   | TG  | C T  | GJ  | A T  
   | T A   | A A   | TA C   | A C   | G C            | A T   | AG  
  | A J   | ΤŤ  | GC   | I A  | G A 1  
  | A I  | A I  | A G   | C 1  | A (  | S T A  
  | 21127.CDS17.I-2  |
| 1259   | TTT  | IGT   | AT   | C 1   | AA  
   | AG  | с.с.   | A C  | CG  | A C  | CT   | TG  | CI   | G I   | AT   
   | TA  | AA.   | TAC  | AC  |                | A T   | AG  
  | AA  | TT  | GC   | T A  | GAI  
  | AT   | AT   | AG  | C 1  |  | T A  
  | 21127.CDS17.I-3  |
| 1261   | TTT  | GT  | A T  | C A   | A A   
   | AG  | c c  | A C  | T G   | A C  | ст   | TG  | сī   | G I   | AT   
   | TA  | A A   | TAG  | A C   | A G (          | A T   | A G   
  | A A   | ΤT  | GC   | ΤA   | GAI  
  | AT   | A T  | A G   | C I  | 1 A (  | TA   
  | FBG.CDS17.I-1<br>FBG.CDS17.I-2   |
| 1261   | TTI  | CG T  | A T  | C 3   | A A   
   | A G   | C. C   | A C  | TG  | A C  | C T  | TG  | CI   | G 7   | A T  
   | ΤA  | A A   | T A G  | A C   | A G C          | a t   | A G   
  | A A   | ŤΤ  | G C  | T A  | G A J  
  | A T  | ΑT   | AG  | CJ   | <b>A</b> (   | 3 T A  
  | FBG.CDS17.I-3  |
| 1252   | TTT  | GT  | AT   | C 1   | AA  
   | AG  | C.C.   | A C  | AG  | A C  | CT   | TG  | C 1  | G 1   | AT   
   | TA  | A A   | TAC  | A C   | A G C          | AT  | AG  
  | AA  | TT  | GC   | TA<br>TA   | GAI  
  | AT   | A T  | A G   | C I  |  | TA   
  | SP10291.CDS17.1  |
| 1250   | TTI  | GT  | AT   | C A   | AA  
   | AG  | сc   | A C  | CG  | A C  | сī   | тĈ  | ΤÎ   | GI  | AT   
   | ΤA  | A A   | TAC  | AC  | G              | TA T  | AG  
  | AA  | ТТ  | GC   | ΓA   | GA 7   
  | AT   | A T  | A G   | Ċ I  | A (  | G T A  
  | 10936VA.CDS17.1  |
| 1260   | TTI  | CG T  | ΑT   | C 3   | A A   
   | AG  | сс   | A C  | TG  | A C  | СT   | TG  | C C  | GJ  | A T  
   | TA  | A A   | TA C   | A C   | L G (          | A T   | AG  
  | A J   | TT  | GC   | I A  | GA 1   
  | A I  | AI   | A G   | C 1  | A (  | TA   
  | 12256U.CDS17.I   |
|  | 2 2 2  | A A G   | 2 2  | та  | тъ  
   | A G   | ст   | тъ   | 2 2   | тG   | a c  | тт  | 2 2  | 2 2   | та   
   | тъ  | GЪ  | с ъ ъ  | ст  | гта            | T A G   | с т   
  | тт  | ът  | ст   | G A  | GGO  
  | • т т  | GC   |   | т  | r  | r c c  
  | Majority   |
|  |  |   |  |   | 240   
   |   |  |  |   | 250  |  |   |  |   | 1260   
   |   |   |  | 1970  |                |   |   
  |   | 1200  |  |  |  
  | 1.2  |  |   |  |  | 140  
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| 1000   | ALC: NO.   |   |  |   | 1340  
   | ******  | A 161  |  | 1   | 350  | · · · · ·  | Ner Text  |  |   | 1360   
   |   | × . * .   |  | 137   |                |   | 1.000.004   
  |   | 1380  | ~ 1  |  | A. 181.7   
  | 13   | 90   |   |  | N I N I N  | 140  
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| 1326   | A.A.A  | LAG   | AA   | TA  | TA  
   | AG  | С.Т.<br>С.Т.   | TA   | AA  | TG   | A C  | T T   | A A<br>A A   | A I   | TA   
   | TA  | GA  | CAP  | C T   | г т 1<br>г т 1 | AG  | GT  
  | т.<br>т.т   | AT  | CT   | 9 А.<br>С. Д.  | 6 6 (  
  | - 1-1<br>Т-Т-Т   | GC   | A A<br>A A  | T  | A  |  
  | 14352VA.CDS17.J  |
| 1328   | A A I  | A G   | A A  | T A   | ΤA  
   | AG  | CΤ   | T A  | A A   | ŦG   | AC   | ТТ  | A A  | AJ  | ΤA   
   | ΤA  | GΑ  | CA A   | CΤ  | T T 1          | AG  | GΤ  
  | Τ 1   | AG  | сC   | G A  | A G (  
  | ΤŢ   | GC   | A A   | TI   | C A 1  | C C  
  | 19791.CDS17.I  |
| 1328   | AAJ  | AG  | AA   | T J   | TA  
   | AG  | CΤ   | T A  | A A   | TG   | AC   | TT  | A A  | AJ  | TA   
   | TA  | G A   | CAA  | CT  | I I ]          | AG  | GT  
  | TI  | ΑT  | CT   | G A  | GGO  
  | TI   | GC   | A A   | 11   | A 1  |  
  | 21127.CDS17.I-1  |
| 1329   | AAZ  | AG  | AA   | TA  | TA  
   | AG  | ст   | TA   | A A   | TG   | A C  | TT  | AA   | A J   | TA   
   | TA  | G A   | CAA  | CΤ  | T T T          | A G   | GT  
  | TI  | AT  | ст   | G A  | GG   
  | ТТ   | GC   | AA  | TI   | Â  | τĊĊ  
  | 21127.CDS17.I-3  |
| 1331   | A A Z  | A G   | A A  | T A   | ΤA  
   | AG  | ст   | ΤA   | A A   | ΤG   | A C  | ΤT  | A A  | A 7   | TA   
   | ΤA  | GA  | C A C  | CI  | r T 1          | GG  | GT  
  | TI  | ΑT  | ст   | GA   | GG(  
  | ΤT   | GC   | A A   | T 1  | ( A )  | c c  
  | FBG.CDS17.I-1  |
| 1331   | AAI  | A.G.  | A A  | TA  | TA  
   | AG<br>AC  | C T  | TA   | A A   | TG   | A C  | TT  | AA   | A 1   | TA   
   | TA  | GA  | CAC  | CT  | Г Т ]<br>г т 1 | GG  | G T   
  | TI  | A T   | CT   | GA   | G G (  
  | TT   | GC   | A A   | T ]  | A  |  
  | FBG.CDS17.I-2<br>FBG.CDS17.I-3   |
| 1322   | AAI  | AG  | A A  | T A   | TA  
   | AG  | C T  | T.A.   | A A   | TG   | A C  | TT  | AA   | A I   | ТА   
   | ΤA  | G A   | CAA  | CΤ  | Г Т 7          | AG  | GT  
  | TI  | AT  | CT   | G A  | G G (  
  | ТТ   | G C  | A A   | TI   | A  | CC   
  | SP10291.CDS17.1  |
| 1328   | AAI  | A G   | A A  | ΤA  | TA  
   | AG  | CΤ   | ΤA   | A A   | TG   | A C  | ΤT  | A A  | A 1   | ΑTI  
   | ΤA  | GA  | CAA  | СТ  | ΓT ]           | AG  | GT  
  | ΤI  | AG  | CC   | G A  | A G (  
  | ΤT   | GC   | A A   | TI   | A  | ССС  
  | 942J.CDS17.I   |
| 1325   | AAI  | LAG   | AA   | TA  | TA  
   | AG  | C T  | TA   | AA  | TG   | AC   | TT  | A H<br>A A   | AJ  | ТА   
   | TA  | G A   | CGA  | ст  |                | GG  | G T   
  | 7 1   | A T<br>A T  | 민  | 5 A.   | GG   
  | 1 I<br>T T   | GC   | AA  | Ť  | 4  |  
  | 10936VA.CDS17.1  |
   |   |  |  |   |  |  |   |  |   |  
   |   |   |  |   |                |   |   
  |   |   |  |  |  
  |  |  |   |  |  |  
  |  |
|  | TTI  | ΓTG   | AA   | AG  | AT  
   | ТΑ  | GΑ   | AA   | GΑ  | G A  | ΑT   | ΑΤ  | ΤA   | TO  | A A  
   | ΑΤ  | ТА  | CAI  | CT  | A T I          | TAA   | ТТ  
  | ΤA  | ĢC  | ΤT   | ΤG   | GGI  
  | A T G  | GC   | ст:   | TI   | ГТ (   | G A A  
  | Majority   |
|  |  |   |  |   | 1410  
   |   |  |  | 1   | 420  |  |   |  |   | 1430   
   |   |   |  | 1440  | )              |   |   
  |   | 1450  |  |  |  
  | 14   | 60   |   |  |  | 147  
  | 0  |
| 1395   | T.T.I  | T G   | A A  | A C   | A T   
   | ΤĀ  | G A  | A A  | G A   | G A  | A T  | A T   | TA   | T (   | AA   
   | A T   | ΤA  | CA I   | Ç T   | 8 T 1          | AA  | TT  
  | T A   | GC  | Τ.T  | ΓG   | G G 7  
  | Υ.Τ.G  | GC   | CT  | T  | T (  | A A  
  | 14352VA.CDS17.1  |
| 1399   | TTI  | C T G   | AA   | A C   | AT  
   | ТА  | GA<br>CA   | AA<br>aa   | GA  | GA   | ΑT   | AΤ  | TA   | T (<br>T (  | AA   
   | AT  | ΤΑ<br>ΤΔ  | CAI  | CT  |                | AA  | TT  
  | TA  | GC  | TT   | IG<br>IG   | G G 1<br>C C 1   
  | T G  | 60   | C T   | Ţ  | ΓΤ(<br>Τ   | AA   
  | 18847.CDS17.I  |
| 1398   | TTI  | T G   | AA   | A.C   | A T   
   | T A   | GA.  | A A  | G A   | GA   | A T  | A T   | TA   | T (   | AA   
   | A T   | T.A.  | CA 1   | СT  | A T 1          | AA  | TT  
  | TA  | GC  | TT   | T G  | G G 1  
  | TG   | G.C  | C T   | Ť 1  | 11   | AA   
  | 21127.CDS17.I-1  |
| 1399   | TTI  | ΓTG   | A A  | Α. 6  | ΑT  
   | T.A.  | G A  | A.A  | ĢΑ  | GΑ   | ΑT   | ΑT  | ΤA   | Τ.  | A A  
   | Α.Τ   | T A   | CA I   | CΤ  | A T 1          | A A   | ТТ  
  | T A   | GC  | ΤT   | ΓG   | G G I  
  | ιT G   | G C  | СT  | Τ7   | Τ(   | A A  
  | 21127.CDS17.I-2  |
| 1399   | T T T  | C T G   | AA   | AC  | A T   
   | TA<br>TA  | GΑ   | AA<br>bb   | GA  | GA   | A T  | AT  | TA   | T (   | A A<br>b b   
   | A T   | TA<br>TA  | CAI  | C T   | АТ<br>1        | АА<br>5 3   | T T<br>T T  
  | T A   | GC  | T T<br>T T   | IG<br>TG   | GGI  
  | T G  | GC   |   | -<br>-   |  | A A<br>3 3 5   
  | 21127.CDS17.1-3<br>FBG.CDS17.1-1   |
| 1401   | T.T.I  | T G   | A A  | A C   | A.T.  
   | T A   | G.A.   | A A  | G.A   | G.A  | A T  | A T   | T A  | T (   | AA   
   | A T   | T A   | C.A.1  | C T   | 1 T 1          | AA  | ΤT  
  | 1.1   | G.C   | T.T  | I G  | G.G.1  
  | T.G  | G C  | C 1   | T 1  | Т (  | AA   
  | FBG.CDS17.I-2  |
| 1401   | T T T  | T G   | AA   | A (   | AT  
   | ΤĀ  | G A  | A A  | GA  | GA   | A T  | A T   | TA   | T   | AA   
   | A T   | ΤA  | C A I  | ÇΤ  | А.Т. I         | AA  | ΤŢ  
  | TA  | GC  | ТТ   | ΓG   | G G J  
  | T G  | GC   | СТ  | TI   | T (  | AA   
  | FBG.CDS17.I-3  |
| 1392   | T T T  | t t G   | AA   | AC  | A 1<br>A T  
   | I A<br>T A  | GA<br>GA   | A A<br>A A   | GA  | GA   | A I<br>A T   | AI  | 1 A  | Ť (   | AA   
   | A I<br>A T  | T A   | CAI  | cτ  |                | AA  | T T   
  | Ť J   | GC  | τ.<br>Τ.Τ.   | IG<br>IG   | GG1  
  | L I G  | GC   | cτ  | i<br>T 1   | 1 (<br>T (   | AA   
  | 942J.CDS17.I   |
| 1394   | T T 1  | ΓTG   | A A  | A 6   | ΑT  
   | ΤA  | G A  | A A  | GΑ  | GA   | ΑT   | ΑT  | ΤA   | T (   | A A  
   | A T   | T A   | СА 1   | CI  | A T 1          | A A   | ΤŤ  
  | T 1   | G C   | ΤT   | I G  | G G 1  
  | t T G  | GC   | ст  | 11   | T (  | A A  
  | 10936VA.CDS17.1  |
| 1400   | TTI  | TG  | A A  | A C   | AT  
   | TA  | G.A.   | A A  | G A   | GA   | A T  | A T   | TA   | T   | A A  
   | A T   | T.A.  | C A I  | CT  | A T I          | A A   | TT  
  | TA  | GC  | TT   | T G  | G G I  
  | T G  | GC   | СТ  | T  | T (  | A A  
  | 12256U.CDS17.I   |
   |   |  |  |   |  |  |   |  |   |  
   |   |   |  |   |                |   |   
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   |   |   |  |   |                |   |   
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  |  |  |   |  |  |  
  |  |
|  | ACO  | GA  | AA   | АТ  | са  
   | CA  | АТ   | GA   | тт  | са   | АА   | ТА  | АТ   | т   | AC   
   | тт  | ст  | AGG  | ст  | АСТ            | CA  | GA  
  | AG  | cc  | AC   | AA   | GAZ  
  | GT   | сс   | тс  | ТА   | A  | тт   
  | Majority   |
|  | ACO  | CGA   | AA   | AI  | C A   
   | CA  | A T  | GA   | <u>T T</u>  | <u>C A</u>   | AA   | TA  | AT   | Т   | <u>A C</u>   
   | тт  | ст  | AGG  | ст.   | ACI            | CA  | GA  
  | AG  | <u>c</u> c  | AC   | A A  | GAZ  
  | G T  | C C  | тс  | TA   | AA   | <u>5 T T</u>   
  | Majority   |
| 14/5   | ACO  | GA  | AA   | A T   | <u>C A</u><br>1480  
   | CA  | A T  | GA   | <u>T T</u><br>1   | <u>C A</u><br>490  | AA   | TA  | A T  | TI  | <u>A C</u><br>1500   
   | TT  | СТ  | AGG  | C T 1   | ACI            | C A   | G A   
  | AG  | <u>çc</u><br>1520   | AC   | AA   | GAI  
  | 15:  | <u>cc</u><br>30  | TC  | TA   | A  | 5 T T<br>154   
  | Majority   |
| 1465<br>1469   | ACO<br>AC-<br>ACO  | G A   | A A<br>A A<br>A A  | A I   | CA<br>1480<br>CA<br>CA  
   | CA<br>TA  | AT<br>AT   | G A<br>G A<br>G A  | <u>T T</u><br>1<br>T T<br>T T   | CA<br>490<br>CA<br>CA  | A A<br>A A<br>A A  | T A<br>T A<br>T A   | A T<br>A T<br>A T  | T 1<br>T 1  | A C<br>1500<br>A C<br>A C  
   | T T<br>T T<br>T T   | C T<br>C T<br>C T   | AGG<br>AGG   | СТ<br>1510<br>СТ<br>СТ  |                | с а<br>с –  | G A<br>G A  
  | A G<br>A G<br>A G   | <u>cc</u><br>1520<br>cc   | AC<br>AC<br>AC   | A A A  | GAI<br>GAI   
  | G T<br>15:<br>G T<br>.G T  | сс<br>30<br>сс   | T C<br>T C  | T A<br>T A   | AC   | 5 T T<br>154<br>5 T T  
  | Majority<br>0<br>14352VA.CDS17.I<br>18847.CDS17.I  |
| 1465<br>1469<br>1468   | A C C<br>A C -<br>A C C<br>A C 1   | GA<br>GA<br>GA  | A A<br>A A<br>A A<br>A A   | A I<br>A I<br>A I<br>A I  | CA<br>1480<br>CA<br>CA<br>CA  
   | CA<br>TA<br>CA<br>CA  | AT<br>AT<br>AT<br>AT   | GA<br>GA<br>GA<br>GA   | <u>T T</u><br>1<br><u>T T</u><br>T T<br>T T   | C A<br>490<br>C A<br>C A<br>C A  | AA<br>AA<br>AA<br>AA   | T A<br>T A<br>T A<br>T A  | A T<br>A T<br>A T<br>A T   | T 1<br>T 1<br>T 1   | A C  
   | TT<br>TT<br>TT<br>TT  | CT<br>CT<br>CT  | AGG<br>AGG<br>AGG  | СТ<br>1510<br>СТ<br>СТ<br>СТ  |                | СА<br>С-<br>СА<br>СА  | GA<br>GA<br>GA  
  | A G<br>A G<br>A G   | <u>сс</u><br>1520<br>сс<br>сс   | AC<br>AC<br>AC<br>AC   | AA<br>AA<br>AA<br>AA   | GA 2<br>GA 3<br>GA 3<br>GA 2   
  | G T<br>15:<br>G T<br>G T   | C C<br>30<br>C C<br>C C  | T C<br>T C<br>T C<br>T C  | TP<br>TP<br>TP<br>TP   |  | 5 T T<br>154<br>1 T T<br>1 T<br>1 T  
  | Majority<br>0<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I   |
| 1465<br>1469<br>1468<br>1468   | AC(<br>AC)<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC   | GA<br>GA<br>GA<br>GA  | AA<br>AA<br>AA<br>AA<br>AA   | A I<br>A I<br>A I<br>A I  | C A<br>1480<br>C A<br>C A<br>C A<br>C A<br>C A  
   | CA<br>TA<br>CA<br>CA  | AT<br>AT<br>AT<br>AT   | GA<br>GA<br>GA<br>GA   | T T<br>1<br>T T<br>T T<br>T T<br>T T<br>T T   | C A<br>490<br>C A<br>C A<br>C A<br>C A   | A A<br>A A<br>A A<br>A A<br>A A<br>A A                             | TA<br>TA<br>TA<br>TA<br>TA  | AT<br>AT<br>AT<br>AT   |   | A C<br>1500<br>A C<br>A C<br>A C<br>A C  
   | TT<br>TT<br>TT<br>TT<br>TT  | CT<br>CT<br>CT<br>CT<br>CT  | AGG<br>AGG<br>AGG<br>AGG   | C T<br>151(<br>C T<br>C T<br>C T<br>C T<br>C T  |                | C A<br>C -<br>C A<br>C A<br>C A   | GA<br>GA<br>GA<br>GA  
  | A G<br>A G<br>A G<br>A G<br>A G   | <u>c</u> c<br>1520<br><u>c</u> c<br>cc<br>cc<br>cc<br>cc  | AC<br>AC<br>AC<br>AC<br>AC   | AA<br>AA<br>AA<br>AA   | G A 1<br>3 A 1<br>3 A 1<br>5 A 1<br>5 A 2<br>5 A 2   
  | G T<br>15:<br>G T<br>G T<br>G T<br>G T   | C C<br>30<br>C C<br>C C<br>C C   | T C<br>T C<br>T C<br>T C<br>T C   | TA<br>TA<br>TA<br>TA<br>TA   | A 0<br>A 0<br>A 0<br>A 0<br>A 0                                    | 5 T T<br>154<br>5 T T<br>1 T<br>1 T<br>1 T<br>7 T  
  | Majority<br>0<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-1   |
| 1465<br>1469<br>1468<br>1468<br>1469<br>1469   | <u>ACC</u><br><u>ACC</u><br><u>ACC</u><br><u>ACC</u><br><u>ACC</u><br><u>ACC</u><br><u>ACC</u><br><u>ACC</u>   | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | A I<br>A I<br>A I<br>A I<br>A I   | C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A  
   | CA<br>IA<br>CA<br>CA<br>CA<br>CA<br>CA  | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT                             | GA<br>GA<br>GA<br>GA<br>GA<br>GA   | T T<br>1<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  | C A<br>490<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A        | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | T 1<br>T 1<br>T 1<br>T 1<br>T 1   | A C<br>1500<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C   
   | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T   | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT  | AGG<br>AGG<br>AGG<br>AGG<br>AGG<br>AGG   | C T<br>151(<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   |                | СА<br>СА<br>СА<br>СА<br>СА<br>СА  | GA<br>GA<br>GA<br>GA<br>GA<br>GA  
  | A G<br>A G<br>A G<br>A G<br>A G<br>A G  | C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C   | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC   | AA<br>AA<br>AA<br>AA<br>AA<br>AA                                   | G A 1<br>G A 1   
  | G T<br>15:<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T   |  | T C<br>T C<br>T C<br>T C<br>T C<br>T C  | TA<br>TA<br>TA<br>TA<br>TA<br>TA   | IA (<br>IA (<br>IA (<br>IA (<br>IA (<br>IA (<br>IA (               | 5 T T<br>154<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T   
  | Majority<br>0<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-3<br>21127.CDS17.I-3  |
| 1465<br>1469<br>1468<br>1469<br>1469<br>1469   | <u>ACC</u><br><u>ACC</u><br><u>ACC</u><br><u>ACC</u><br><u>ACC</u><br><u>ACC</u><br><u>ACC</u><br><u>ACC</u><br><u>ACC</u><br><u>ACC</u>   | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | A I<br>A I<br>A I<br>A I<br>A I<br>A I  | C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A  
   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA  | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT                             | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   | T T<br>1<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T   | C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A                                       | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A        | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T   | T 1<br>T 1<br>T 1<br>T 1<br>T 1<br>T 1  | A C<br>1500<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C  
   | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T   | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT  | AGG<br>AGG<br>AGG<br>AGG<br>AGG<br>AGG   | C T<br>1510<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>T T   |                | C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A   | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA  
  | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C  | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC   | AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA                 | G A 1<br>3 A 3<br>5 A 1<br>5 A 1<br>5 A 1<br>5 A 1<br>5 A 1<br>5 A 1   
  | G T<br>15:<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T   |  | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C   | TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA   | A 0<br>A 0<br>A 0<br>A 0<br>A 0<br>A 0<br>A 0<br>A 0<br>A 0<br>A 0 | T T<br>154<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  
  | Majority<br>0<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-3<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1  |
| 1465<br>1469<br>1468<br>1468<br>1469<br>1469<br>1469<br>1471<br>1471   | ACC<br>ACC<br>ACC<br>ACC<br>ACC<br>ACC<br>ACC<br>ACC<br>ACC<br>ACC   | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | AI<br>AI<br>AI<br>AI<br>AI<br>AI<br>AI<br>AI  | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA  
   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA  | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT                       | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   | T T<br>1<br>T T T T<br>T T T T<br>T T T T<br>T T T<br>T T T<br>T T T  | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA                                     | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  | A T<br>A T<br>A T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T  |   | A C<br>1500<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C  
   | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT                                      | A G G<br>A G G  | C T<br>1510<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>T T<br>T T   |                | C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A  | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   
   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C  | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC   | AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA     | G A J<br>G A J  
  | G T<br>15:<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T   |  | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C  | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  |  | <u>T</u><br>154<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT  
  | Majority<br>0<br>14352VA.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>7EG.CDS17.I-2<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3   |
| 1465<br>1469<br>1468<br>1469<br>1469<br>1469<br>1471<br>1471<br>1471<br>1462   | <u>A C C</u><br><u>A C C</u>   | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>C<br>C<br>C<br>A 1<br>A 1<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA  
   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA  | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT                 | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   | T T<br>1<br>T T T T T T T T T T T T T T T T T   | C A<br>490<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A                         | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  | A T<br>A T<br>A T<br>T<br>A T<br>T<br>T<br>A T<br>T<br>T<br>T<br>T<br>T<br>T<br>T  | 工 1<br>主 1<br>主 1<br>王 1<br>王 1<br>王 1<br>王 1<br>王 1<br>王 1<br>王 1<br>王 1<br>王 1<br>王   | A C<br>1500<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C  
   | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT                                | A G G<br>A G G  | C T<br>151(<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>T T<br>T T<br>T T<br>C T   |                | С А<br>С А<br>С А<br>С А<br>С А<br>С А<br>С А<br>С А<br>С А<br>С А  | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   
   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | C C C C C C C C C C C C C C C C C C C   | A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | G A 1<br>G A 1  
  | G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T   |  | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C   | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  |  | 5 T T<br>154<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T   
  | Majority<br>0<br>14352VA.CDS17.I<br>18847.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>SP10291.CDS17.1   |
| 1465<br>1469<br>1468<br>1469<br>1469<br>1469<br>1471<br>1471<br>1471<br>1472<br>1468   |  | G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A  |  | A I<br>A I<br>A A A A A A A A A A A A A A A A   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA  
   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA  |  | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   |   | C A<br>490<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A                         | A A<br>A A A A A A A A A A A A A A A A A A                         | TA<br>TAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T   |   | A C<br>1500<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C  
   | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT                                | A G G<br>A G C<br>A G C   |   |                | C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A  | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   
   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | C C C C C C C C C C C C C C C C C C C   | A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>C<br>A C<br>C<br>A C<br>C<br>C<br>A C<br>C<br>C<br>C  |  | G A J<br>G A J  
  |  |  | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C   | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A   |  | T T<br>154<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T   
  | Majority<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>9423.CDS17.I<br>9423.CDS17.I   |
| 1465<br>1469<br>1468<br>1469<br>1469<br>1471<br>1471<br>1471<br>1472<br>1468<br>1468<br>1464<br>1470   |  | <u>G A</u><br>G A<br>G A<br>G A<br>G A<br>C G A C G A<br>C G A C G A<br>C G A C G A<br>C G A C A C  |  | A I<br>A I<br>A A A A A A A A A A A A A A A A   | C A<br>1480<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | GA<br>CACA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA   |   | <u>CA</u><br>490<br>CA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA                    | A A A A A A A A A A A A A A A A A A A                              | T A<br>T T T T T T T T T T T T T T T T T T  | A T<br>A T<br>A T<br>A T<br>T<br>A T<br>T<br>T<br>A T<br>T<br>T<br>A T<br>T<br>T<br>A T<br>T<br>T<br>A T<br>T<br>T<br>A T<br>T<br>A br>A T<br>T<br>T<br>A T<br>T<br>T<br>A T<br>T<br>T<br>A T<br>T<br>T<br>T |   | <u>A</u> C<br>1500<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C   | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT              | A G G<br>A G C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C<br>A G C C C<br>A G C C C<br>A G C C C C C C C C C C C C C C C C C C | C T<br>1510<br>C T<br>C T<br>C T<br>C T<br>C T<br>T T<br>T T<br>C T<br>C  |                | C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A  | G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | C C C C C C C C C C C C C C C C C C C   | A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>C<br>A br>C |  | G A J<br>G A J   |  |  | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C  | T 2<br>T 2<br>T 2<br>T 2<br>T 2<br>T 2<br>T 2<br>T 2<br>T 2<br>T 2   |  |   | Majority<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>10336VA.CDS17.I<br>10336VA.CDS17.I   |
| 1465<br>1469<br>1468<br>1469<br>1469<br>1471<br>1471<br>1471<br>1468<br>1464<br>1470   |  |   |  | A T<br>A 2<br>C C C C C C C C C C C C C C C C C C C   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>C   
   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>C   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   |   | CA<br>490<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA                  | A A<br>A A A A A A A A A A A A A A A A A A                         | T A<br>T A A A<br>T T A A A<br>T T A A A<br>T T A A<br>T T A A<br>T T A<br>T A  | A T<br>A T<br>A T<br>A T<br>T<br>A br>A T<br>T<br>A br>A T<br>T<br>T<br>A T<br>T<br>T<br>A T<br>T<br>T<br>T  | 工<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | A C<br>1500<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C  
   | TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT  | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT                          | A G G<br>A G C<br>A G C<br>A G C<br>A G C<br>C<br>A G C<br>C<br>A G C<br>C<br>A G C<br>C<br>A G C<br>C<br>A G C<br>C<br>C<br>A G C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C T<br>151(<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   |                | C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A  | G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A  
  | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | <u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>  | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>A  |  |  
  | A G T<br>15:<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T   |  | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C  |  |  | T T<br>154<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T   
  | Majority<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>10936VA.CDS17.I<br>10256U.CDS17.I   |
| 1465<br>1469<br>1468<br>1469<br>1471<br>1471<br>1471<br>1472<br>1468<br>1464<br>1470   | A C C<br>A br>A C C<br>C<br>A C C<br>C<br>A C C<br>C<br>C<br>A C C<br>C<br>C<br>C   | - G A<br>- G A | A A<br>A A<br>A A A A<br>A A A A<br>A A A A A A<br>A A A A A A A A A A A A A A A A A A A<br>A | A T<br>A T<br>A T<br>C<br>A T<br>A T<br>A T<br>A T<br>A T<br>C<br>C<br>C<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>C   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>C   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>TG   | <u>T T</u><br>1<br><u>7</u> T T T T T T T T T T T T T T T T T T T  
  | <u>СА</u><br>490<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>СС                    | A A<br>A A A A A A A A A A A A A A A A A A                         | TA<br>TTTTTTTTTT<br>TTT<br>TC   | A T<br>A T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T   |   | <u>A</u> C<br>1500<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C   | <u>T</u> T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T<br>T T<br>T<br>T<br>T<br>T<br>T<br>T<br>T | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT                          | A G G<br>A G G G<br>A G G G<br>A A G G<br>A A G G<br>A A G G<br>A A G G<br>A A G G<br>A A A T  
   | C T<br>1510<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   |                | C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A  | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  
   | C C C C C C C C C C C C C C C C C C C   | A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C   |  |   | <u>1 G T</u><br>15:<br>6 T <u>1</u><br>6 G T<br>6 G T<br>7 T A  
   | C C C<br>30<br>C C C<br>C C C<br>C C C<br>C C<br>C C<br>C C<br>C C<br>C C  | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C  | I I I<br>I I<br>I I<br>I I<br>I I<br>I I<br>I I<br>I I<br>I I<br>I   |  |   | Majority<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>10236VA.CDS17.I<br>10236VA.CDS17.I<br>12256U.CDS17.I<br>Majority  
   |
| 1465<br>1469<br>1468<br>1469<br>1469<br>1471<br>1471<br>1471<br>1471<br>1472<br>1462<br>1468<br>1464<br>1470   | <u>A C C</u><br><u>A C</u><br><u>A C C</u><br><u>C C C C C C C</u><br><u>C C C C C C C C C C C C C C C C C C C </u>  |   | A A<br>A A A A A A A A A A A A A A A A A A   | A I<br>A I<br>A A A I<br>I<br>A A A A A A A A A A A   | CA<br>(480<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA  | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>C   
   |  | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>TG   | <u>T T</u><br><u>1</u><br><u>1</u><br><u>1</u><br><u>1</u><br><u>1</u><br><u>1</u><br><u>1</u><br><u>1</u>  | <u>СА</u><br>490<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>СС                    | A A<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA                          | T A A A A A A A A A A A A A A A A A A A   | A T<br>A TTTTTT<br>A A A A A A A A A A A A A A   |   | <u>A</u> C<br>1500<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C   
   | TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT  | C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T                | A G G<br>A G G G<br>A G G G G<br>A A G G G<br>A A G G<br>A A G G<br>A A A G<br>A A A T   | C T<br>151(<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   |                | C _ C _ C _ C _ A _ A | <u>G A</u><br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A  
  | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | C C C<br>C C C<br>C C C<br>C C C<br>C C C<br>C C C<br>C C C C C<br>C C C C C C<br>C   | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>A  |  | <u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u><br><u>GA</u>  | 15:<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T  
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Majority<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-1<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>9423.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA                             |
| 1465<br>1469<br>1468<br>1469<br>1469<br>1469<br>1471<br>1471<br>1471<br>1471<br>1462<br>1468<br>1468<br>1468   | A C (<br>X C)<br>X C)  | C G A<br>C   | A A<br>A A<br>A A A A A A A A A A A A A A A A  | A I<br><u>A I</u><br><u>A I</u><br><u>A I</u><br><u>I</u><br><u>I</u><br><u>I</u><br><u>I</u><br><u>I</u><br><u>I</u><br><u>I</u><br><u></u>  | CA<br>(480)<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA   |   |  | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>TG<br>TC   | <u>T T T</u><br><u>1</u><br><u>T</u> T T T T T T T T T T T T T T T T T T  | <u>CA</u><br>490<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA           | A A<br>A A<br>A A A A A A A A A A A A A A A A                      | <u>T A</u><br><u>T</u><br><u>T</u><br><u>T</u><br><u>T</u><br><u>T</u><br><u>T</u><br><u>T</u><br><u>T</u>  | A T<br>A T<br>T<br>A A T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T   |   | A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C   | TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT  |   | <u>A G G</u><br><u>A</u> G C C<br><u>A</u> G C C<br><u>A</u> A G C C<br><u>A</u> A G C C<br><u>A</u> A G C<br><u>A</u> A G C<br><u>A</u> A G C<br><u>A</u> A C C<br><u>A</u> A A T<br><u>A</u> A A T   | C T<br>151(<br>C T<br>C T<br>C T<br>T T<br>T T<br>C T<br>C T<br>T T<br>T  |                |   | . G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | C C C C C C C C C C C C C C C C C C C   | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>A  |  | G A I<br>G A I   | 1 G T<br>15:<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T<br>6 T   | C C<br>30<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C C<br>C  | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C  | T P<br>T Z<br>T Z<br>T Z<br>T Z<br>T Z<br>T Z<br>T Z<br>T Z<br>T Z<br>T Z  |  | 5 T T<br>154<br>154<br>1 T T<br>1 T T T<br>1 T T<br>1 T T<br>1 T T<br>1 T T<br>1 T T<br>1 T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T<br>1 T T T T<br>1 T T T T<br>1 T T T T<br>1 T T T<br>1 T T T<br>1 T T T T<br>1 T T T T<br>1 T T T T T<br>1 T T T T T T T T T T T T T T T T T T T  | Majority<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>SP10241.CDS17.I<br>10336VA.CDS17.I<br>10336VA.CDS17.I<br>Majority<br>0<br>14352VA.CDS17.I  |
| 1465<br>1469<br>1468<br>1469<br>1471<br>1471<br>1471<br>1472<br>1464<br>1470<br>1533<br>1539   |  |   | A A<br>A A A A A A A A A A A A A A A A A A   | A I<br>A I<br>A I<br>A I<br>I<br>C C I<br>I<br>C C I<br>I<br>C C I<br>I<br>C C I<br>I<br>C C I<br>I<br>C C I<br>I<br>C C I<br>I<br>I<br>C C I<br>I<br>C br>I | <u> </u>  |   |  | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA | TT<br>TTTTTTTTTTTTTT<br>TTTTTTTTTTTT<br>A A A A   | <u>CA</u><br>490<br>CAA<br>CCAA<br>CCAA<br>CCAA<br>CCAA<br>CCAA<br>CCAA<br>CCA                           | A A<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA                          | TA<br>TTTTTTTTTTTT<br>TC<br>CCC   | A T<br>A A A A<br>A A A A A A A A A A A A A A  |   | A C<br>1500<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C  | TT<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT   | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT                    |  | C T<br>151(<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   |                |   | <u>GA</u><br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br><u>GA</u><br>GA<br><u>GA</u><br><u>T</u><br>G<br>T<br>G   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | <u>C</u> C<br><u>C</u> C<br>C<br>C<br>C<br>C<br>C C<br>C<br>C<br>C<br>C<br>C C<br>C<br>C C<br>C<br>C C<br>C<br>C C C<br>C<br>C<br>C C C<br>C<br>C C C C C<br>C<br>C | AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>AC<br>A  |  |   | A G I<br>15:<br>6 T I<br>6 A<br>7 A<br>16<br>17 br>17 A<br>16<br>17 A<br>17 A<br>17 A<br>16<br>17 A<br>17 | C C C<br>30<br>C C C<br>C C C C   | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C  |  |  | 5 T T<br>154<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T  | Majority<br>14352VA.CDS17.I<br>18047.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>0423.CDS17.I<br>10356VA.CDS17.I<br>12256U.CDS17.I<br>Majority<br>0<br>14352VA.CDS17.I<br>18047.CDS17.I   |
| 1465<br>1469<br>1468<br>1469<br>1471<br>1471<br>1471<br>1462<br>1464<br>1471<br>1462<br>1464<br>1464<br>1453<br>1539<br>1538<br>1538   | 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   | TT<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT   | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT              | A G G<br>A G G G G G G G G G G G G G G G G   | C T<br>1511<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   |                |   |
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  | Majority<br>14352VA.CDS17.I<br>19791.CDS17.I<br>19791.CDS17.I-<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>FBG.CDS17.I-1<br>10336VA.CDS17.I<br>10336VA.CDS17.I<br>12256U.CDS17.I<br>18847.CDS17.I<br>189791.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-3<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>19               |
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   | Majority<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>10336VA.CDS17.I<br>10336VA.CDS17.I<br>12256U.CDS17.I<br>18437.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-1<br>FBG.CDS17.I-2<br>SP10291.CDS17.I<br>10336VA.CDS17.I<br>10336VA.CDS17.I<br>10336VA.CDS17.I<br>10336VA.CDS17.I<br>10336VA.CDS17.I<br>10336VA.CDS17.I<br>10336VA.CDS17.I<br>10336VA.CDS17.I<br>10336VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I<br>10356VA.CDS17.I                             |
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Majority<br>14352VA.CDS17.I<br>143547.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>0423.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>FBG.CDS17.I-2<br>12256U.CDS17.I<br>10336VA.CDS17.I<br>10356VA.CDS17.I<br>12556U.CDS17.I<br>12556U.CDS17.I<br>12556U.CDS17.I<br>12556U.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12560.CDS17.I<br>12 |
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   | Majority<br>14352VA.CDS17.I<br>18947.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-3<br>FF0.CDS17.I-3<br>FF0.CDS17.I<br>10256U.CDS17.I<br>12256U.CDS17.I<br>14352VA.CDS17.I<br>14352VA.CDS17.I<br>19791.CDS17.I-2<br>1127.CDS17.I-2<br>1127.CDS17.I-2<br>1127.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17 |
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T T T<br>.   | Majority<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>FBG.CDS17.I<br>10396VA.CDS17.I<br>10396VA.CDS17.I<br>12256U.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>1127.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>12256U.CDS17.I<br>10936VA.CDS17.I<br>12256U.CDS17.I<br>10936VA.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I                   |
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Majority<br>14352VA.CDS17.I<br>19791.CDS17.I<br>19791.CDS17.I-1<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>FBG.CDS17.I-1<br>10396VA.CDS17.I<br>10396VA.CDS17.I<br>12256U.CDS17.I<br>18847.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1<br>10396VA.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>12327.CDS17.I<br>123270.CDS17.I<br>12525U.CDS17.I<br>12525U.CDS17.I<br>12525U.CDS17.I<br>12525U.CDS17.I<br>12525U.CDS17.I<br>12527A.CDS17.I<br>12547.CDS17.I  |
| 1465<br>1469<br>1468<br>1469<br>1471<br>1471<br>1471<br>1471<br>1471<br>1462<br>1533<br>1539<br>1539<br>1539<br>1539<br>1539<br>1539<br>1531<br>1541<br>1541<br>1541<br>1541<br>1541<br>1541<br>1541                                 | A C C<br>A C C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C C<br>A C C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C<br>A C C C C<br>A C C C C<br>A C C C C<br>A C C C C C<br>A C C C C C C C<br>A C C C C C C C C C C C C C C C C C C C  |   | A A<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | CA<br>4480<br>CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC   
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| 1465<br>1469<br>1468<br>1469<br>1471<br>1471<br>1471<br>1471<br>1472<br>1462<br>1464<br>1470<br>1533<br>1539<br>1538<br>1539<br>1538<br>1538<br>1538<br>1538<br>1538<br>1540<br>1603<br>1609<br>1609<br>1611<br>1611<br>1611<br>1601 |  |   | A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | CA<br>4400<br>CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  
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  | Majority<br>14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>FBG.CDS17.I<br>10336VA.CDS17.I<br>10336VA.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-1<br>FBG.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>10936VA.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3         |

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|  | TGAC   | сс  | тси  | AAG   
  | GΑ   
  | GΑ  | ΑT   | ΑT   | AG   | G A (  | G A .   | ΑT   | ΤA   | GC   
   | ТС   | A A   | AA  | AC  | TT   | AA   | ΤG   | GΑ   | СA   | AA   | ΤI   | A 1  | ГТ  | GΑ   | ТТ  | TO  
   | ; G (   | βA  | G C .  | AG  | GT   | Major   | rity  
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|  |  |   |  | 1690  
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  |   |  |  | 1700   |  |   |  |  | 17   
   | .0   |   |   |   | 172  | 0  |  |  |  | 173  | 80   |  |   |  |   | 1740  
   |   |   |  |   | 175  | 0   |   
   |  |
| 1673   | TGAC   | с   | TCI  | A A G   
  | GA   
  | GA  | A T  | A T  | A G  | A (  | 3 A   | A T  | TA   | GC   
   | T C  | A A   | A A   | A C   | TT   | A A  | T G  | G A  | CA<br>A  | A A  | TI   | A 1  | I I   | GA   | T T   | T C   
   | G   | 5 A.  | G C  | - G   | GΤ   | 14352   | 2VA.CDS   
   | 317.I  |
| 1677   | TGAC   | ccl   | GC   | AG  
  | GA   
  | GA  | AT   | AT   | AG   | A  | G A   | A T  | ТА   | GC   
   | TO   | AA  | AA  | AC  | ТТ   | АА   | TG   | GA   | CA   | AA   | TI   | AI   | ΓT  | GA   | ТТ  | Т   
   | G   | -T  | e c  | - R<br>A G  | GT   | 1979  | L.CDS1  
   | 7.I  |
| 1677   | TGAC   | C C   | GCI  | A G   
  | G A  
  | G A   | ΑT   | ΑT   | AG   | A (  | 3 A   | A T  | ΤA   | GÇ   
   | TC   | A A   | A A   | A C   | ΤT   | A A  | ΤG   | GA   | C A  | A A  | ΤŢ   | A 1  | T T   | G A  | ΤI  | T (   
   | G (   | T   | G C  | A G   | GΤ   | 21127   | CDS1  
   | 7.I-1  |
| 1678   | TGAC   | CC  | GCJ  | AG  
  | GA   
  | GA  | ΑT   | A T  | A G  | A (  | 3 A   | A T  | TA   | GC   
   | T C  | A A   | A A   | AC  | ΤŢ   | A A  | T G  | G A  | C A  | A A  | 11   | A 1  | T T   | G A  | TT  | Τ.  
   | G (   | Ţ   | GC.  | A G   | GT   | 21127   | CDS1  
   | 1.1-2  |
| 1680   | TGAC   | C C   | TC   | AG  
  | GA   
  | GA  | AT   | AT   | AG   | A  | A A   | A T  | ТА   | GC   
   | TC   | AA  | AA  | AC  | ТТ   | AA   | TG   | GA   | CA   | AA   | ТТ   | AI   | Г Т   | GA   | TT  | TO  
   | G   |   | GC   | AG  | GT   | FBG.0   | CDS17.  
   | 7.1-3<br>I-1   |
| 1680   | TGAC   | сc  | тс   | A G   
  | GA   
  | GA  | ΑT   | A T  | A G  | A (  | 5 A   | A T  | ΤA   | GC   
   | ΤC   | A A   | A A   | AC  | ΤT   | A A  | T G  | GΑ   | СA   | A A  | Τ 1  | A 1  | C T   | GA   | ΤТ  | T (   
   | G (   | A C   | G C  | AG  | GΤ   | FBG.C   | DS17.   
   | 1-2  |
| 1680   | TGAC   | C C   | TC I   | A G   
  | GA   
  | GA  | A T  | A I  | A G  | A (  | 3 A .   | ΑT   | TA   | GC   
   | T C  | A A   | AA  | AC  | TT   | A A  | I G  | G A  | C A  | A A  | TI   | A 1  | I I   | GA   | TI  | T C   
   | G   | 5 A<br>(  | G.C.   | AG  | GΤ   | FBG.C   | CDS17.  
   | (-3  |
| 1677   | TGAC   | CC  | GC   | AG  
  | GA   
  | GA  | AT   | AT   | AG   | A  | A A   | AT   | TA   | GC   
   | TO   | AA  | AA  | A C   | TA   | AA   | TG   | GA   | CA   | AA   | TT   | A  | ΓT  | GA   | TT  | T   
   | G   | S A   | GC   | A G   | GT   | 942J  | CDS17   
   | .I   |
| 1672   | TGAC   | СС  | TCI  | AG  
  | GΑ   
  | GA  | ΑT   | ΑT   | AG   | A (  | 3 A   | A T  | ΤA   | GÇ   
   | ΤC   | A A   | A A   | A C   | ТΤ   | A A  | T G  | GΑ   | C A  | A A  | ΤT   | A 1  | r T   | GΑ   | ТΤ  | T (   
   | G (   | \$ A  | ေင[  | - G   | GΤ   | 10936   | SVA.CDS   
   | 517.1  |
| 1679   | TGAC   | C.C.  | TOCI   | LA.G.   
  | GA   
  | GA  | AT   | AT   | AG   | 1: A. (  | 3 A.  | A T  | TA   | GOC  
   | .T.C   | A A   | A A   | AC  | TOT  | A A  | T.G.   | G A  | CA   | A A  | TI   | - A - 1  | D. T.   | G A  | TT  | -T-6  
   | 1. G. (   | 3 A.  | G.C.   | A G   | G.T.   | 12256   | SU.CDS:   
   | 17.1   |
|  | AAAA   | AC  | ACO  | ТАТ   
  | A A  
  | тс  | AA   | тс   | ст   | c c c  | ΓТ  | СА   | AA   | тс   
   | СG   | ТА  | ΑT  | тс  | АТ   | TA   | A A  | GG   | АT   | GC   | AA   | с  | G G   | GΤ   | AA  | Т   
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| 1741   | A A A A  | A C   | A C R  | AT  
  | A A  
  | T C   | A A  | T C  | .c.1   | с :  | r r   | C A  | A A  | TC   
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   | A   | Γ.A.  | Č G  | T C   | TT   | 14352   | 2VA.CD  
   | 517.1  |
| 1747   | AAAA   | ΑT  | A C (  | AT  
  | A A  
  | T.C.  | A A  | ΤC   | CC   | C :  | T T   | C A  | A A  | TC   
   | C G  | TA  | A T   | TC  | GT   | TA.  | A A  | G G  | A T  | G C  | A A  | C (  | i G   | GT   | A A   | T (   
   | A   | A J   | C A  | T C   | TT   | 18847   | CDS1  
   | 7.I  |
| 1747   |  | AC  | AC   | AI  
  | AA   
  | T C   | AA   | T C  |  | C C  | r T   | C A  | AA   | T C  
   | CG   | TA  | A I   | TC  | AT   | TA<br>TA   | A A<br>A A   | G G  | A I<br>A T   | 60   | A A  | C (  | 56<br>56  | G T  | AA  | T 6   
   | A   | A   | C A  | TC  | T T  | 19791   | L.CDSI<br>7.CDSI  
   | /.1<br>7.T-1   |
| 1748   | AAAA   | AC  | A.C.   | A T   
  | A A  
  | TC  | A A  | T.C  | C 1  | Ċ  | ΤT  | C.A  | A A  | ΤC   
   | C G  | ΤA  | A T   | TC  | A T  | T A  | A.A  | G G  | A T  | G C  | A 1  | C (  | G G   | G T  | A A   | T (   
   | A   | A   | C A  | T C   | ΤT   | 2112  | CDS1  
   | 7.1-2  |
| 1748   | AAAA   | AC  | A C (  | A T   
  | A A  
  | TC  | A A  | TC   | СТ   | C  | ΓŢ  | C A  | AA   | TC   
   | CG   | TA  | AT  | TC  | A T  | T A  | A A  | GG   | A T  | GC   | A A  | C (  | G   | G T  | A A   | T (   
   | A   | A   | C A  | T C   | ΤТ   | 21127   | CDS1  
   | 1.I-3  |
| 1750   | AAAA   | A C   | A C (  | A T   
  | A A  
  | TC  | A A  | TC   | сī   | č  | L T   | C A  | AA   | Ť Č  
   | CG   | T A   | A T   | ŤĊ  | A T  | T A  | A A  | GG   | A T  | GC   | A J  | C (  | 3 G   | G T  | A A   | T C   
   | A   | C.A.  | C A  | T C   | TT   | FBG.(   | DS17.   
   | I-1<br>I-2   |
| 1750   | A A A A  | A C   | A.C. (   | A T   
  | A A  
  | T.C   | A A  | T C  | СТ   | ° C 1  | r r   | C A  | A A  | TC   
   | C G  | ТА  | A T   | TC  | A T  | TA.  | A A  | G G  | A T  | G C  | A 2  | C (  | 3 G   | G T  | A A   | T (   
   | <b>A</b> 1  | A 1   | C A  | T.C.  | TT   | FBG.C   | CDS17.  
   | 8-1  |
| 1739   | AAAA   | A C   | AC   | AT  
  | A A  
  | TC  | AA   | TC   | СТ   | C  | I I   | CA   | AA   | TC   
   | CG   | TA  | AT  | TC  | AT   | TA   | AA.  | GG   | A T  | GC   | A A  | C  | G   | GT   | A A   | TO  
   | A   | A I   | CA   | TC  | TT   | SP102   | 291.CDS   
   | 317.1  |
| 1741   | A A A A  | A C   | A C (  | AT  
  | A A  
  | T C   | A A  | T.C  | СŤ   | c  | ΓŢ  | C A  | A A  | TC   
   | CG   | TA  | A I   | ŤČ  | A T  | T A  | A A  | GG   | A T  | GC   | A A  | C (  | 5 <u>G</u>  | G T  | A A   | T G   
   | A   | A   | C A  | T C   | ΤT   | 10936   | SVA.CDS   
   | 517.1  |
| 1749   | AAAA   | AT  | A.C.   | A T   
  | A A  
  | TC  | A A  | TC   | C 1  | C  | r T   | C.A.                                       | A A  | T.C  
   | CG   | TA  | A T   | TC  | A.T.   | T A  | A.A.   | G G  | A T  | G C  | A A  | C (  | \$ .G   | G.T.   | A A   | T (   
   | A.  | A. 1  | C G  | T C   | Ť.Ť  | 12256   | SU.CDS:   
   | 17.I   |
|  | CACT   | AA  | ття  | AAC   
  | A A  
  | сс  | АТ   | тт   | GT   | сс   | ЭT  | GA   | тт   | AG   
   | A A  | AG  | тт  | тт  | тт   | - A  | AG   | GТ   | тт   | ТА   | AI   | т  | A A   | ТА   | ТА  | G J   
   | A   | ΞA  | тс   | A T   | A A  | Major   | rity  
   |  |
|  |  |   |  | 1830  
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  |   |  |  | 1840   |  |   |  |  | 185  
   | 50   |   |   |   | 186  | D  |  |  |  | 187  | 10   |  |   |  |   | 1880  
   |   |   |  |   | 189  | 0   |   
   |  |
| 1811   | CACT   | AA  | TOTO   | AC  
  | A  
  | C C   | AUT  | TUTUT  | GT   |  | <b>1</b>  | GIAI                                       | TOT  | A G  
   |  | A G   | TOT   | UTUT.   | TIT  | Д.   | AG   | GUTU   | TUT  | TA   |  | <u>т</u> 7   | <u>д</u>  | TA   | Т. А  | G   
   | ( <b>)</b>  | - A-  | TIC  | ATT   | ACA  | 14352   | ZVA.CD  
   | 517.1  |
| 1817   | CACT   | A A   | T T I  | A C   
  | A A  
  | C C   | A T  | ΤT   | GΤ   | C (  | 3 T   | GA   | TT   | A G  
   | A A  | A G   | TT  | ΤŢ  | ΤT   | - A  | A G  | GΤ   | TT   | ΤA   | A T  | т 1  | A   | T A  | ΤA  | G J   
   | A   | A 6   | TC   | A T   | A A  | 18847   | CDS1  
   | 7.I  |
| 1817   | CACT   | A A   | T I J  | AC  
  | A A  
  | CC  | AT   | TT   | GT   | C (  | 3 T   | GA.  | TT   | A G  
   | A A  | A G   | ΤŢ  | ΤŢ  | ΤŢ   | - A  | A G  | G T  | ΤŢ   | TA   | A 1  | Τ.   | A A   | T A  | T A   | G J   
   | Α (   | A   | ΤC.  | A T   | A A  | 19791   | L.CDS1  
   | 1.I  |
| 1818   | CACI   | AA  | TT   | AC  
  | AA   
  | CC  | AC   | TT   | GT   | C (  | , т<br>3 т  | GA   | ТТ   | AG   
   | AA   | AG  | TT  | ТТ  | ТТ   | - A  | AG   | GT   | TT   | ТА   | AI   | TI   | A   | TA   | TA  | G 7   
   | A   | A   | тс   | AT  | AA   | 2112  | CDS1  
   | 7.1-1  |
| 1818   | CACT   | AA  | TT)  | A A C   
  | A A  
  | CC  | A C  | TT   | GT   | C (  | 3 T   | GΑ   | TT   | AG   
   | A A  | A G   | ΤT  | TT  | ΤT,  | - A  | A G  | GΤ   | ΤT   | ΤA   | A 1  | Τ.   | A I   | TA   | ΤA  | G 7   
   | A (   | 5 A   | ТС,  | ΑT  | A A  | 21127   | CDS1  
   | 7.I-3  |
| 1820   | CACT   | AA  | TTI  | AC  
  | AA   
  | CC  | A T  | TI   | GI   | C (  | 5 T   | GA   | TT   | AG   
   | AA   | A G   | TT  | TT  | TT   | TA   | A G  | GΤ   | TT   | T A  | A I  | ŢJ   | A   | TA   | TA  | G 1   
   | A (   | 5 A.  | TC.  | A T   | A A  | FBG.C   | DS17.   
   | (-1<br>T 2   |
| 1820   | CACT   | AA  | TT   | AC  
  | AA   
  | CC  | AT   | TT   | GT   | C (  | ; T   | GA   | TT   | A G  
   | AA   | A G   | TT  | TT  | TT   | TA   | A G  | G T  | TT   | TA   | AI   | T 7  | A   | T A  | TA  | G J   
   | A   | A A   | TC   | A T   | AA   | FBG.C   | CDS17.  
   | I-3  |
| 1809   | CACT   | A A   | ΤT   | AC  
  | A A  
  | сc  | ΑT   | ΤI   | GΤ   | C (  | 3 T   | GΑ   | ΤT   | A G  
   | A A  | A G   | ΤT  | ΤT  | ΞΞ   | - A  | A G  | GΤ   | ΤT   | ΤA   | A 1  | Τ 2  | A A   | ΤA   | ΤA  | G 1   
   | A   | À   | T C  | ΑT  | A A  | SP102   | 291.CD  
   | 517.1  |
| 1817   | CACI   | AA  | 1 I J<br>7 7 J   | AC  
  | AA   
  | C C   | AT   | 11   | 6 1<br>6 1   |  | 4 T<br>7 T  | GA   | 1 J<br>7 7   | AG   
   | AA   | A G   | 1 1<br>† †  | 1 I<br>7 7  | 1.1  | - A<br>- 1   | A G  | G T  | Т 1<br>Т Т   | T A<br>T A   | A 1<br>A 1   | + 1  | A A   | TA<br>TA   | TA  | 63  
   | A   | A<br>A  | тс.<br>тс  | A T<br>A T  | AA   | 942J.<br>10936  | VA.CDS17  
   | .1<br>517.1  |
| 1010   | CGCT   | AA  | T.T.   | A C   
  | A A  
  | CC  | A T  | TT   | GΤ   | C (  | J T   | G A  | ΤТ   | AG   
   | A A  | A G   | TT  | TT  | T.T.   | - A  | A G  | G T  | ΤT   | ΤA   | A I  | TI   | A   | T A  | TA  | G.7   
   | A. (  | A   | T C  | A T   | A A  | 12256   | U.CDS   
   | 17.1   |
| 1019   |  |   |  |   
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| 1019   |  |   |  |   
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| 1019   |  |   |  |   
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   |   |   |  |   |  |   |   
   |  |
| 1019   | GTGA   | ATI   | ATI  | GC  
  | тт   
  | CAI   | A A  | AT   | GT   | AA   | ТА  | AA   | A A (  | GA   
   | AT   | IT  | I A I   | rg A  | AG   | AT   | A G  | A G  | GA   | A T  | AI   | Al   | ΓA.   | AA   | ст  | ΤG  
   | СТ  | T   | ста  | A T I   | I_Ma   | jorit   | У   
   |  |
| 1019   | GTGA   | ATI   | ATI  | <u>G C</u><br>1900  
  | ΤT   
  | CAI   | A A .  | <u>A T</u><br>1  | <u>G T</u><br>910  | <u>a a</u>   | TA  | AA   | A A (  | G A .<br>1920  
   | A T  | TT  | [ A ]   | C G A   | <u>A G</u>   | <u>A T</u>   | A G  | <u>A G</u>   | <u>G A</u>   | <u>A T</u><br>1940   | AI   | AI   | ΓA.   | A A  | <u>ст</u><br>195  | <u>T G</u><br>50  
   | ст  | T   | стя  | <u>A T 1</u><br>19  | <u>Г</u> Ма<br>60  | jorit   | У   
   |  |
| 1880   | <u>GTGA</u>  | A T I   | ATI<br>ATI   | G C<br>1900<br>G C  
  | T T (  
  | CAI   | A A<br>A A   | <u>A T</u><br>1<br>A T   | G T<br>910<br>G T  | A A<br>A A   | T A   | A A  | A A (  | G A 1920<br>3 A  
   | A T  | <u>I T 1</u>                                  | TA 1  | CGA<br>CGA  | A G  | A T  | A G  | A G  | <u>G A</u><br>1<br>- Ä   | A T<br>1940<br>A T   | A I  | A 1  | A I   | A A<br>A A   | C T   | T G   
   | <u>с 1</u><br>с 1   | T (   | ст <i>и</i><br>сти   | AT 1<br>19<br>AT 1  | Г_Ма<br>60<br>Г_14   | jorit   | y<br>.CDS17   
   | .1   |
| 1880<br>1886   | G T G A  | A T I   | ATI<br>ATI<br>ATI  | G C<br>1900<br>G C<br>G C   
  | <u>T T (</u><br>T T (<br>T T (                 
  | CAI<br>CAI<br>CAI   | A A<br>A A<br>A A  | AT<br>1<br>AT<br>AT  | G T<br>910<br>G T<br>G T   | A A<br>A A<br>A A  | T A<br>T A<br>T A   | A A<br>A A                                 | A A (<br>A ( | G A .<br>1920<br>S A .<br>S A .  
   | AT<br>AT<br>AT   |   | [ A ]<br>[ A ]<br>[ A ]   | IGA<br>IGA<br>IGA   | AG<br>1930<br>AG   | AT<br>AT<br>AT   | AG<br>AG   | A G<br>A T<br>A C  | G A<br>1<br>- Ä<br>G A   | A T<br>1940<br>A T<br>A T  | A I<br>A I<br>A I  | A 1<br>A 1<br>A 1  | [ A ]<br>[ A ]  | A A<br>A A<br>A A  | C T<br>195<br>C T<br>C T  | T G<br>50<br>T G<br>T G   
   | с 1<br>с 1<br>с 1   | T (<br>T (  | C T J<br>C T J<br>C T J  | AT 1<br>19<br>AT 1<br>AT 1  | I Ma<br>60<br>I 14<br>I 18   | jorit<br>352VA<br>847.CI  | y<br>.CDS17<br>DS17.I   
   | .1   |
| 1880<br>1886<br>1886<br>1886   | GIGA<br>GIGA<br>GIGA<br>GIGA   | AT<br>AT<br>AT<br>AT<br>AT<br>AT  | ATI<br>ATI<br>ATI<br>ATI<br>ATI  | G C<br>1900<br>G C<br>G C<br>G C  
  | TT<br>TT<br>TT<br>TT                           
  | CAI<br>CAI<br>CAI<br>CAI  | AA<br>AA<br>AA<br>AA   | <u>A T</u><br>1<br><u>A T</u><br>A T<br>A T<br>A T   | G T<br>910<br>G T<br>G T<br>G T<br>G T   | A A<br>A A<br>A A<br>A A<br>A A                                    | T A<br>T A<br>T A<br>T A<br>T A   | A A<br>A A<br>A A<br>A A                   | AA<br>(A<br>(A)<br>(A)<br>(A)  | G A<br>1920<br>G A<br>S A<br>S A<br>S A<br>S A   
   | AT<br>AT<br>AT<br>AT<br>AT   |   | [ A ]<br>[ A ]<br>[ A ]<br>[ A ]  | IGA<br>IGA<br>IGA<br>IGA  | A G<br>1930<br>A G<br>A G<br>A G   | AT<br>AT<br>AT<br>AT<br>AT   | AG<br>AG<br>AG<br>AG<br>AG   | A G<br>A T<br>A T<br>A G   | G A<br>]<br>- À<br>G A<br>- À<br>G A   | A T<br>1940<br>A T<br>A T<br>A T<br>A T  | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1                             | A 1<br>A 1<br>A 1<br>A 1<br>A 1                                    | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1  | AA<br>AA<br>AA<br>AA<br>AA   | C T<br>195<br>C T<br>C T<br>C T   | TG<br>50<br>TG<br>TG<br>TG  
   |   | T (<br>T )<br>T )<br>T )  | C T <i>1</i><br>C T <i>1</i><br>C T <i>1</i><br>C T <i>1</i><br>C T <i>1</i>   | AT 1<br>19<br>AT 1<br>AT 1<br>AT 1<br>AT 1  | I Ma<br>60<br>I 14<br>I 18<br>I 19<br>I 21   | ijorit;<br>1352VA<br>1847.Cl<br>1791.Cl<br>.127.Cl  | y<br>.CDS17<br>DS17.I<br>DS17.I<br>DS17.I   
   | .I<br>-1   |
| 1880<br>1886<br>1886<br>1886   | <u>GIGA</u><br>GIGA<br>GIGA<br>GIGA<br>GIGA  | AT<br>AT<br>AT<br>AT<br>AT<br>AT  | ATI<br>ATI<br>ATI<br>ATI<br>ATI<br>ATI   | G C<br>1900<br>G C<br>G C<br>G C<br>G C   
  | TT<br>TT<br>TT<br>TT<br>TT                     
  | CA<br>CA<br>CA<br>CA<br>CA<br>CA  | AA<br>AA<br>AA<br>AA<br>AA   | <u>A T</u><br>1<br><u>A T</u><br>A T<br>A T<br>A T   | G T<br>910<br>G T<br>G T<br>G T<br>G T   | A A<br>A A<br>A A<br>A A<br>A A<br>A A                             | T A<br>T A<br>T A<br>T A<br>T A   |  | A A (<br>A A (<br>A A A A A A A A A A A A A A  | G A<br>1920<br>S A<br>S A<br>S A<br>S A<br>S A   
   | AT<br>AT<br>AT<br>AT<br>AT   | III<br>II<br>II<br>II<br>II<br>II<br>II<br>II | [ A ]<br>[ A ]<br>[ A ]<br>[ A ]  | IGA<br>IGA<br>IGA<br>IGA  | A G<br>1930<br>A G<br>A G<br>A G<br>A G  | A T<br>A T<br>A T<br>A T<br>A T<br>A T   | AG<br>AG<br>AG<br>AG<br>AG   | AG<br>AT<br>AG<br>AG<br>AG   | G A<br>]<br>- A<br>G A<br>- A<br>G A   | A T<br>A T<br>A T<br>A T<br>A T<br>A T   | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1                      | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1                             | A<br>A<br>A<br>A<br>A<br>A  | AA<br>AA<br>AA<br>AA<br>AA<br>AA   | CT<br>195<br>CT<br>CT<br>CT   | T G<br>50<br>T G<br>T G<br>T G<br>T G<br>T G                                      
   |   | T (<br>T )<br>T )<br>T )  | C T 2<br>C T 3<br>C T 2<br>C T 2<br>C T 2<br>C T 2   | A T 1<br>19<br>A T 1<br>A T 1<br>A T 1<br>A T 1<br>A T 1  | I Ma<br>60<br>I 14<br>I 18<br>I 19<br>I 21<br>I 21   | (jorit)<br>(352VA<br>(847.C)<br>(791.C)<br>(127.C)<br>(127.C)   | Y<br>.CDS17<br>DS17.I<br>DS17.I<br>DS17.I<br>DS17.I   
   | .I   |
| 1880<br>1886<br>1886<br>1886<br>1887<br>1887   | GTGA<br>STGA<br>STGA<br>GTGA<br>GTGA<br>GTGA<br>GTGA   | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  | A T 1<br>A T 1   | G C<br>1900<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C   
  | <u>T T</u><br>T T<br>T T<br>T T<br>T T<br>T T<br>T T   
  | CAI<br>CAI<br>CAI<br>CAI<br>CAI<br>CAI<br>CAI<br>CAI  | AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA   | AT<br>1<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  | G T<br>910<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  | A A A A A A A A A A A A A A A A A A A      |  | G A<br>1920<br>S A<br>S A<br>S A<br>S A<br>S A<br>S A<br>S A<br>S A  
   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T                      |   | [ A ]<br>[ A ]<br>[ A ]<br>[ A ]<br>[ A ]<br>[ A ]<br>[ A ]                                     | [ G A<br>[ G A  | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G   | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | A G<br>A T<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G   | G A<br>]<br>- A<br>G A<br>G A<br>G A<br>G A<br>G A   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T   | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1 | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1        | IA<br>IA<br>IA<br>IA<br>IA<br>IA  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | C T<br>19<br>C T<br>C T<br>C T<br>C T<br>C T  | T G<br>50<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G   
   |   | T (<br>T )<br>T )<br>T )<br>T )<br>T )  | C T <i>I</i><br>C T <i>I</i>                 | <u>AT</u><br>19<br>AT<br>1<br>AT<br>1<br>AT<br>1<br>AT<br>1<br>AT<br>1<br>AT<br>1<br>AT   | T Ma<br>60<br>1 14<br>1 18<br>1 19<br>7 21<br>7 21<br>7 21<br>7 21   | 1352VA<br>1352VA<br>1847.Cl<br>1791.Cl<br>127.Cl<br>127.Cl<br>127.Cl<br>127.Cl<br>127.Cl  | y<br>.CDS17.I<br>DS17.I<br>DS17.I<br>DS17.I<br>DS17.I<br>DS17.I<br>17.I-1   
   | .I<br>-1<br>-2<br>-3   |
| 1880<br>1886<br>1886<br>1886<br>1887<br>1887<br>1887<br>1890<br>1890   | GIGA<br>GIGA<br>GIGA<br>GIGA<br>GIGA<br>GIGA<br>GIGA   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | ATI<br>ATI<br>ATI<br>ATI<br>ATI<br>ATI<br>ATI<br>ATI<br>ATI  | G C<br>1900<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C  
  | <u>T T</u><br><u>T</u>
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| 1880<br>1886<br>1886<br>1886<br>1887<br>1887<br>1890<br>1890<br>1890<br>1890<br>1890   |  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | A T 1<br>A T 1   | G C<br>1900<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C  |   | C A :<br>C A : |  |  | G T<br>910<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T   | <u>A</u> AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA                       | T A<br>T A A A A A A A A A A A A A A A A A  |  |  | G A<br>1920<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A  |  |   |   |   | A G<br>L930<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT                                   | A G<br>A G G G G G G G G G G G G G G G G G   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G                 | GA<br>1<br>- GAAAA<br>- GGAAAA<br>- GGAAAAA<br>- GGAAAAAA<br>- GGAAAAAAAAAA  | A T<br>1940<br>A T T T T T<br>A A A T T T T<br>A A A T T T T   | A I<br>A I<br>A I<br>A I<br>A I<br>A I<br>A I<br>A I<br>A I<br>A I | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1 |   | A A<br>A A<br>A A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   |   | I G<br>50<br>I G<br>I G<br>I G<br>I G<br>I G<br>I G<br>I G<br>I G<br>I G<br>I G   | C 1<br>C 1<br>C 1<br>C 1<br>C 1<br>C 1<br>C 1<br>C 1<br>C 1<br>C 1  | T<br>T<br>T<br>T<br>T<br>T<br>T   |  | A T 1<br>19<br>A T 1<br>A A | I Ma<br>1460 11 11 11 11 11 11 11 11 11 11 11 11 11  | 4jorit<br>1352VA<br>1847.Cl<br>1791.Cl<br>127.Cl<br>127.Cl<br>127.Cl<br>3G.CDS<br>3G.CDS<br>10291<br>12J.CD<br>1936VA   | Y<br>.CDS17.I<br>DS17.I<br>DS17.I<br>DS17.I<br>DS17.I<br>17.I-1<br>17.I-1<br>17.I-2<br>17.I-3<br>.CDS17<br>S17.I<br>.CDS17  | .I<br>-1<br>-2<br>-3<br>.I   |
| 1880<br>1886<br>1886<br>1887<br>1887<br>1890<br>1890<br>1890<br>1890<br>1890<br>1890<br>1898   | <u>G T G A</u><br><u>G T G A</u>   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  |  |   
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iss47.c iss</pre>  | y<br>.CDS17<br>DS17.I<br>DS17.I<br>DS17.I<br>DS17.I<br>DS17.I<br>DS17.I<br>CDS17.I<br>CDS17.I<br>DS17.I<br>DS17.I<br>DS17.I<br>DS17.I<br>DS17.I<br>DS17.I<br>CDS17<br>S17.I<br>CDS17<br>S17.I<br>CDS17.<br>S17.I<br>CDS17.<br>S17.I<br>CDS17.<br>S17.I<br>CDS17.I<br>DS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>S17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17.I<br>CDS17  | .I<br>-1<br>-2<br>-3<br>.I<br>.I<br>-2<br>-3<br>.I<br>.I<br>-2<br>-3<br>.I<br>.I<br>-2<br>-3<br>.I<br>.I<br>.I<br>.I<br>.I<br>.I<br>.I<br>.I<br>.I<br>.I |

|  |   | AAA   | A 1  | A A  | 10  
  | GMM   | GA  | TA  | TC   | AA  
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  |  |   |   | 214  | 10   
   |  |  |  | 2150   
  |   |   |  |  | 2160  |   |   |   | 21  | 70   
   |  |
| 2089   | TG  | A A 2   | A 1  | AA   | ŤĞ  
  | GAA   | G A   | TA  | T C  | A A   
  | AJ   | A C   | ΤT   | A T   | TT   
  | A A  | TG  | GA  | CAC  | A C  
   | TA   | ΔT 2   | ( T )  | A A A  
  | A C   | ŤŤ  | GA   | TA   | A T   | GA  | TT  | ŤŤ  | GTJ   | 14352VA.CD   
   | 517.I  |
| 2096   | TG  | A A 1   | A 1  | A A  | ΤG  
  | G.A.A   | GA  | TA  | TC   | A A   
  | A 1  | A C   | ΤT   | ΑΤ  | ΤT   
  | AA   | TG  | GA.   | C.A C  | A.C.   
   | TA   | (T)  | T 1  | A A A  
  | AC  | ТТ  | G.A  | ΤA   | A T   | GA  | ΤT  | T T   | GTI   | 18847.CDS1   
   | 7.I  |
| 2094   | TG  | A A A   | A 1  | AA   | TG  
  | G A A   | GA  | TA  | TC   | A A   
  | Α,   | A C   | TI   | AT  | TT   
  | A A  | TG  | G A   | CALC   | A C  
   | TA   | ι.Τ.   | Τ.   | A A A  
  | AC  | TT  | G A  | TA   | AT  | G A   | TT  | TT  | GIJ   | 19791.CDS1   
   | 7.I  |
| 2096   | 1 G I   | A A 4   | A 1  | AA   | 00  
  |   | 6 A   | 1 A<br>7 X  | + -  | A A<br>5 3  
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  | AA   | 4 G   | G A   | 0 A 4<br>6 5 7   | A C  
   | Η Α 4  | • • •  | - +  | 4 A A  
  | AC  | ***   | G A  | 4 A  | A L   | GA  | * *   | * *   | 611   | 21127.CDS1   
   | 7 7 2 2  |
| 2097   | T G   | A A 1   | A 1  | AA   | CG  
  | GAA   | GA  | TA  | ŤC   | AA  
  | A  | A C   | T T  | A T   | ŤŤ   
  | AA   | T G   | GA  | C A T  | ÂC   
   | TA   | 1 T J  | T  |  
  | A C   | ΤŤ  | GA   | TA   | AT  | GA  | ΤŤ  | ŤŤ  | GT  | 21127.CDS1   
   | 7.1-2  |
| 2100   | TG  | A A A   | A 1  | AA   | TG  
  | G A A   | G A   | TA  | ΤC   | AA  
  | A 7  | A C   | ΤТ   | ΑT  | ΤT   
  | A A  | TG  | G A   | C A T  | A C  
   | TA   | A T 7  | T 7  | A A A  
  | A C   | TT  | G A  | TA   | A T   | G A   | TT  | ΤT  | GT /  | FBG.CDS17.   
   | I-1  |
| 2100   | TG  | A A A   | A 1  | A A  | ΤG  
  | GA A  | G A   | ΤA  | τc   | A A   
  | A ]  | A C   | ΤТ   | ΑT  | ΤŢ   
  | A A  | ΤG  | GA  | САТ  | A C  
   | TA   | A T 7  | T 7  | A A A  
  | A C   | тт  | GΑ   | TA   | A T   | GA  | тт  | ΤŢ  | GTI   | FBG.CDS17.   
   | I-2  |
| 2100   | TG  | A A A   | A J  | A A  | TG  
  | GAA   | GA  | TA  | TC   | A A   
  | AJ   | A C   | TI   | A T   | TI   
  | A A  | TG  | GA  | CAT  | A C  
   | TAI  | AT /   | T  | A A A  
  | A C   | TT  | GA   | TA   | A T   | GA  | TI  | TI  | GIJ   | FBG.CDS17.   
   | I-3  |
| 2085   | 1 G I   | а <i>в в</i><br>2 2 2   | A 1  | A A  | 1 G   
  | G A A   | G A   | T A   | TC   | A A<br>A A  
  |  | A.C.  | 1 1<br>T T   | AT  | TT   
  | AA   | TG  | GA  |  | A.C.   
   | TA   |  | с 1 <i>1</i>   | A.A.A<br>A A A   
  | AC  | т.т.  | GI   | 1 A  | A T   | GA  | 1 1<br>T T  | 1 1<br>T T  | G T 7   | 942.T CDS17  
   | 51/.1<br>т   |
| 2090   | TG  | A A I   | A 1  | A A  | ΤG  
  | GAA   | GA  | TA  | TC   | A A   
  | A 1  | A C   | ΤŤ   | A T   | ΤĪ   
  | A A  | TG  | GA  | CAT  | A C  
   | TA   | ι.<br>Τ. Ι   | IT I   | AAA  
  | A C   | ΤŤ  | G A  | ТА   | A T   | GA  | ТТ  | ΤT  | GT  | 10936VA.CD   
   | 517.I  |
| 2098   | TGJ   | A A J   | A 1  | A A  | CG  
  | G A A   | GA  | TA  | TC   | A A   
  | ( A )  | A C   | ΤŤ   | A T   | TT   
  | A A  | TG  | GA  | CAC  | A C  
   | TAJ  | ίŢJ  | L T J  | AAA  
  | A C   | TT  | G A  | T A  | ΑŤ  | G A   | TT  | TT  | GTI   | 12256U.CDS   
   | 17.I   |
  |   |   |   |  |   
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  |   |   |  |  |   |   |   |   |   |  
   |  |
|  | GTI   | ATI   | T 7  | . A T  | A C   
  | GCA   | ΑΑ  | A C   | TT   | AA  
  | T I  | A A   | ΑT   | GG  | A G  
  | CG   | GΑ  | CAI   | ATA  | ТС   
   | GG(  | GGO  | СТ 2   | AAA  
  | ТТ  | A G   | GΑ   | A C  | AA  | ΤG  | ΤG  | СТ  | TAI   | Majority   
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|  |   |   |  |  | 2180  
  |   |   |   | 219  | 90  
  |  |   |  | 2   | 200  
  |  |   |   | 22   | L0   
   |  |  |  | 2220   
  |   |   |  | :  | 2230  |   |   |   | 22  | 40   
   |  |
| 2159   | G T   | A TO  | 11   | AT   | AC  
  | A CA  | AA  | A C   | TT   | AA  
  | erro   | A A   | A T  | GG  | AG   
  | CG   | G.A.  | C A.  | ATTA   | ΤC   
   | G G  | G (  | 1 T 1  | AA   
  | T T   | AG  | G A  | AC   | CA  | ŤĞ  | TG  | TT  | TA  | 14352VA.CD   
   | 517.I  |
| 2166   | G T   | A T J   | ΤI   | AT   | AC  
  | G C A   | A A   | A C   | ΤT   | A A   
  | Т 7  | A A   | ΑT   | GG  | AG   
  | CG   | G A   | CA  | A T A  | TC   
   | GG   | C G (  | Τ.   | AA   
  | ΤT  | AG  | G A  | A C  | AA  | ΤG  | TG  | TT  | TA  | 18847.CDS1   
   | 7.I  |
| 2164   | GT  | A T 1   | Τ1   | ΑT   | A C   
  | GCA   | A A   | A C   | TT   | A A   
  | T 7  | A A   | ΑT   | GG  | AG   
  | CG   | G A   | CA.   | A T A  | TC   
   | GG(  | G (  | T 1  | AA   
  | ТТ  | AG  | G A  | AC   | AA  | TG  | TG  | CI  | TAI   | 19791.CDS1   
   | 7.I  |
| 2166   | GT  | A T I   | ΤJ   | A T  | A C   
  | ACA   | A A   | A T   | TT   | A A   
  | T 1  | A A   | A T  | GG  | A G  
  | CG   | GA  | C A   | A T A  | TC   
   | GG   | C G (  | Ţ  | AA   
  | TT  | AG  | GA   | A C  | A A   | TG  | TG  | CI  | TA  | 21127.CDS1   
   | 7.1-1  |
| 2167   | GT  | а т т   | T 7  | AT   | A C   
  |   | A A   | A T   | TT   | 2.1   
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  | CG   | GA  | CA  |  | TC   
   | GGI  |  | т 1  |  
  | TT  | AG  | GA   | AC   | A A   | TG  | TG  | CT  | ТА  | 21127.CDS1   
   | 7.1-2  |
| 2170   | GT  | АТТ   | Т 7  | ΑT   | A C   
  | GCA   | AA  | AC  | тт   | A A   
  | T  | A A   | ΑT   | GG  | A G  
  | C G  | GA  | TA  | АТА  | тс   
   | GG   | C G (  | T  | AAA  
  | ΤT  | A G   | GA   | A C  | A A   | TG  | T G   | СТ  | TA  | FBG.CDS17.   
   | I-1  |
| 2170   | GT  | A T I   | T 2  | АT   | A C   
  | GCA   | A A   | A C   | TT   | A A   
  | τJ   | A A   | A T  | GG  | A G  
  | CG   | GA  | TA.   | A T A  | τc   
   | GG   | G (  | T 1  | AA   
  | TI  | A G   | G A  | A C  | A A   | TG  | TG  | СТ  | TA  | FBG.CDS17.   
   | I-2  |
| 2170   | G T   | A T 1   | T )  | A T  | A C   
  | G C A   | A A   | A C   | TT   | A A   
  | T I  | A.A.  | A T  | GG  | A G  
  | C G  | G A   | TA  | A T A  | TC   
   | GG   | G (  | T 1  | A A A  
  | TT  | A G   | G.A  | A C  | A A   | TG  | TG  | C T   | TA  | FBG.CDS17.   
   | I-3  |
| 2155   | G T   | A T I   | TI   | AI   | AC  
  | GCA   | A A   | A C   | TT   | A A   
  | T  | A A   | A T  | GG  | AG   
  | CG   | G A   | C A   | A T A  | TC   
   | GG   | G  | 1.   | A A A  
  | TI  | AG  | G A  | AC   | A A   | TG  | TG  | Шĭ  | TA  | SP10291.CD   
   | 517.1  |
| 2160   | 6 1 1<br>6 T  | A 1 1<br>A T 1  | + 1  | A 1  | AC  
  | 6 C A   | AA  | A C   | + +<br>+ +   | A A   
  | ц 1 /<br>ф 1   | A A<br>A A  | A 1<br>3 T   | 66  | A G  
  | 06   | G A   | T A   | а I А<br>Х Ф Х   | + 6  
   | 66   |  | 4  | 4 A A<br>3 3   
  | + +   | AG  | GA   | AC   | AA  | + 6   | 46  | 01  | 4 A<br>7 A  | 10936VA CD   
   | .1<br>517 т  |
| 2168   | G T   | A T 1   | Τ1   | A T  | A C   
  | A C A   | A A   | AC  | ΤT   | A A   
  | T 1  | A A   | ΑT   | GG  | A G  
  | C G  | GA  | C A   | A T A  | ΤC   
   | G G (  | G (  | Τ.   | AA   
  | ΤŤ  | A.G.  | GA   | A C  | AA  | TG  | T G   | C I   | TA  | 12256U.CDS   
   | 17.I   |
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|  | TAI   | AAC   | : T 1  | ΤG   | TT  
  | AGT   | GΑ  | AA  | TA   | GT  
  | A 1  | ТТ  | ΤA   | ΑT  | AA   
  | ТТ   | GΑ  | AC  | GCA  | ТА   
   | AT (   | G A J  | A A 1  | IGI  
  | ТА  | AA  | GΑ   | - A  | AA  | ΑT  | ΑT  | ТТ  | GCI   | Majority   
   |  |
|  |   |   |  |  | 2250  
  |   |   |   | 226  | 60  
  |  |   |  | 2   | 270  
  |  |   |   | 228  | 80   
   |  |  |  | 2290   
  |   |   |  |  | 2300  |   |   |   | 23  | 10   
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| 2229   | TA  | A A C   | -T-1   | TG   | TT  
  | AGT   | GA  | AA  | TA   | GT  
  | A  | TT  | TA   | AT  | AA   
  | TT   | GA  | AT  | GIC A  | ТА   
   | AT   | G A J  | A  | I G T  
  | TA  | AA  | GA   | - A  | AA  | AT  | AT  | ТТ  | GCI   | 14352VA.CD   
   | 517.I  |
| 2236   | TA  | A A C   | ŢĴ   | T G  | ΤT  
  | A G T   | GA  | A A   | TA   | GŢ  
  | A  | ΤT  | ΤA   | AT  | A A  
  | ТТ   | G A   | AC  | G C A  | TA   
   | AT   | - A J  | A  | ΓGΤ  
  | ΤA  | AA  | G A  | - A  | AA  | AT  | AT  | ΤT  | GCI   | 18847.CDS1   
   | 7.I  |
| 2234   | TA  | A A C   | T 1  | TG   | TT  
  | A G T   | GA  | A A   | T A  | G I   
  | A (  | T T   | T A  | ΑT  | A A  
  | TT   | G A   | A C   | GCA  | ΤÀ   
   | A T  | 3 A J  | L A  | r g T  
  | T A   | A A   | G A  | - A  | A A   | A T   | A T   | TT  | GC 1  | 19791.CDS1   
   | 7.I  |
| 2236   | T.A.  | A.A.(   | T 1  | T G  | TT.   
  | A G T   | G A   | A A   | T A  | G T   
  | Α.   | T.T.  | ТА   | A T   | A A  
  | T.T  | GΑ  | A C   | S C A  | ŤΑ   
   | AT.  | 3 A 1  | A  | 1 G 1  
  | TA  | AA  | GA   | - A  | A A   | A T   | A T   | TT  | GC 1  | 21127.CDS1   
   | 7.I-1  |
| 2237   | T.A.  | A A (   |  | ŢĢ   | TT  
  | A G T   | GA  | A A   | TA   | GI  
  | A  | 1.1.  | TA   | A T   | A A  
  | ŢŢ   | GA  | A C   | G C A  | T A  
   | A.T.   | . A /  | Α.   | G I  
  | TA  | A A   | GA   | - A  | A A   | A 1   | AT  | TT  | GCI   | 21127.CDS1   
   | 7.1-2  |
| 2240   | T D   |   |  | - T G  | ተተ  
  | A G T   | 6 1   | A A   | T D  | 6 1   
  |  | н.<br>Ф. Т.   | T A  | a T   | A A  
  | т.<br>Т.Т.   | GA  | a cf  |  | Ť b  
   | A T  |  |  | r a t  
  | TA  | A A   | GA   | G  | h h   | b T   | à T   | т.<br>Т.Т   | G C J   | FBG. CDS17.  
   | 7.1-3<br>T-1   |
| 2240   | TA  | AA  | 11   | TG   | ΤT  
  | A G T   | GA  | AA  | TA   | G 1   
  | А  | T T   | ΤA   | A T   | AA   
  | ΤT   | G.A.  | AC  | ACA  | ΤA   
   | A T  | A 1  | A  | r G 1  
  | ΤÀ  | AA  | G A  | GA   | AA  | A T   | AT  | ΤT  | G.C.  | FBG.CDS17.   
   | 1-2  |
| 2240   | TA  | A A (   | Τ1   | TG   | ΤТ  
  | A G T   | GΑ  | ĂΑ  | ΤA   | GΤ  
  | Α 1  | T.T   | ΤA   | ΑT  | A A  
  | ΤТ   | GΑ  | A C   | A C A  | TA   
   | AT (   | 7 A 1  | <b>A</b> :   | ΓGΤ  
  | ΤA  | AA  | G A  | GA   | A A   | AT  | AT  | ТТ  | G C 2   | FBG.CDS17.   
   | I-3  |
| 2225   | TA  | A A C   | Τ1   | TG   | ΤТ  
  | A G T   | GA  | A A   | TA   | GT  
  | A  | ΤT  | ΤA   | ΑT  | A A  
  | ТТ   | G A   | AC  | GCA  | ΤA   
   | A T (  | 5 A 1  | 1 A 1  | G T  
  | TA  | AA  | G A  | ,,A  | AA  | AT  | ΑT  | ТТ  | GC 1  | SP10291.CD   
   | 517.I  |
| 2236   | TA  | A A C   | Τ 1  | TG   | T.T.  
  | A G T   | GA  | A A   | TA   | GI  
  | A  | TT  | TA   | AT  | A R  
  | TT   | GA  | A C   | ACA  | TA   
   | A T  | 3 A J  | A  | r G T  
  | TA  | A A   | GA   | G  | A A   | A T   | A T   | TT  | GCI   | 942J.CDS17   
   | .I   |
| 2230   | TA  |   | T 7  | TG   | ТТ  
  | A G T   | GI  | A A<br>Z Z  | TA   | GT  
  | . я.<br>Д  | 1T.<br>T. T.  | TZ   | AT  | A A  
  | 1 1<br>T T   | GA  | a Cl  |  | TA   
   | AL   | 3 A 3  | A  | Г.G.T  
  | TA  | AA  | GA   |  | A A<br>A A  | AT  | AI  | TT  | GCI   | 12256U.CDS   
   | 17.T   |
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|  | AGI   | AAC   | : A 1  | AA   | CA  
  | тта   | AG  | тт  | AA   | TG  
  | ; G 1  | АТ  | GC   | AA  | AA   
  | CA   | AG  | TA  | GAA  | GA   
   | TA   | стя  | A T 1  | ΓAG  
  | АT  | тт  | ΤG   | ΤG   | сс  | GΤ  | СА  | тс  | GTI   | Majority   
   |  |
|  | AGI   | AAC   | : A I  | AA   | <u>C A</u>  
  | TTA   | A G   | ΤT  | AA   | . T G   
  | ; <u>G 1</u>   | A T   | GC   | AA  | <u>A A</u>   
  | CA   | A G   | TA  | GAA  | GA   
   | TA   | ста  | A T I  | I A G  
  | АT  | ТТ  | ΤG   | TG   | <u>c c</u>  | GΤ  | CA  | тс  | GT J  | _ Majority   
   |  |
|  | AGI   | AAC   | : A 1  | AA   | <u>C A</u><br>2320  
  | TTA   | A G   | ΤT  | A A<br>233   | <u>TG</u><br>30   
  | ; G 1  | A T   | GC   | <u>A A</u>  | A A<br>340   
  | CA   | A G   | TA  | G A A<br>23  | <u>G A</u><br>50   
   | TA   | ста  | <u>1 T 1</u>   | <u>IAG</u><br>2360   
  | A T   | тт  | ΤG   | TG   | <u>cc</u><br>2370   | GΤ  | CA  | тс  | <u>ст</u><br>23   | _ Majority<br>80   
   |  |
| 2298   | AG  | A A C   | A 1  | A A  | <u>са</u><br>2320<br>са   
  | TTA<br>TTA  | A G   | T T<br>T T  | A A<br>233<br>A A  | <u>TG</u><br>30<br>TG   
  | ; G 1  | <u>AT</u>   | G C  | <u>A A</u><br>2<br>A A  | A A<br>340<br>A A  
  | C A  | A G   | T A   | G A A<br>23!<br>G A A  | <u>GA</u><br>50<br>GA  
   | TA (<br>TA (   | ст <i>з</i><br>т 2   | <u>T</u>   | IAG<br>2360<br>IAG   
  | A T   | T T<br>T T  | T G  | T G  | <u>cc</u><br>2370   | G T   | C A   | T C   | <u>GT</u><br>23<br>GTJ  | Majority<br>80<br>14352VA.CD   
   | 517.1  |
| 2298<br>2305<br>2303   | AGI<br>AGI<br>AGI   | AAC<br>AAC<br>AAC   | A 1  | A A<br>A A<br>A A<br>A A   | C A<br>2320<br>C A<br>C A<br>C A  
  | TTA<br>TTA<br>TTA<br>TTA  | A G<br>A G<br>A G<br>A G  | TT<br>TT<br>TT  | A A<br>233<br>A A<br>A A<br>A A  | . T G<br>30<br>. T G<br>. T G   
  | ; G 1<br>; G 1<br>; G 1  | AT<br>AT<br>AT  | G C<br>G C<br>G C  | A A<br>2<br>A A<br>A A<br>A A   | A A<br>340<br>A A<br>A A<br>A A  
  | CA<br>CA<br>CA   | AG<br>AG<br>AG  | TA<br>TA<br>TA<br>TA  | G A A<br>23<br>3 A A<br>3 A A<br>5 A A   | G A<br>50<br>G A<br>G A  
   | TA<br>TA<br>TA<br>TA   | ст;<br>ст;<br>ст;<br>ст;   | 1 T 1<br>1 T 1<br>1 T 1  | IAG<br>2360<br>IAG<br>IAG  
  | AT<br>AT<br>AT  | TT<br>TT<br>TT  | TG<br>TG<br>TG   | T G<br>T G<br>T G<br>T G   | <u>сс</u><br>2370<br>сс<br>сс   | GT<br>GT<br>GT  | CA<br>CA<br>CA  | T C<br>T C<br>T C   | G T 1<br>23<br>G T 1<br>G T 1<br>G T 1  | Majority<br>80<br>14352VA.CD<br>18847.CDS1<br>19791.CDS1   
   | 517.I<br>7.I<br>7.I  |
| 2298<br>2305<br>2303<br>2305   | AG<br>AG<br>AG<br>AG  | AAC<br>AAC<br>AAC<br>AAC<br>AAC   | A 1<br>A 1<br>A 1<br>A 1<br>A 1  | A A<br>A A<br>A A<br>A A<br>A A  | C A<br>2320<br>C A<br>C A<br>C A<br>C A   
  | <u>TTA</u><br>TTA<br>TTA<br>TTA<br>TTA  | AG<br>AG<br>AG<br>AG<br>AG  | T T<br>T T<br>T T<br>T T<br>T T   | A A<br>233<br>A A<br>A A<br>A A<br>A A   | . T G<br>30<br>. T G<br>. T G<br>. T G<br>. T G   
  | ; G 1<br>; G 1<br>; G 1<br>; G 1   | AT<br>AT<br>AT<br>AT<br>AT  | G C<br>G C<br>G C<br>G C<br>G C  | AA<br>2<br>AA<br>AA<br>AA<br>AA   | AA<br>340<br>AA<br>AA<br>AA<br>AA  
  | CA<br>CA<br>CA<br>CA   | A G<br>A G<br>A G<br>A G<br>A G   | TA<br>TA<br>TA<br>TA<br>TA  | GAA<br>23<br>GAA<br>GAA<br>GAA<br>GAA  | G A<br>50<br>G A<br>G A<br>G A   
   | TA(<br>TA)<br>TA<br>TA<br>TA<br>TA   | C T 2<br>T 2<br>T 2<br>T 2<br>T 2  | ITI<br>ITI<br>ITI<br>ITI   | IAG<br>2360<br>IAG<br>IAG<br>IAG   
  | AT<br>AT<br>AT<br>AT  | TT<br>TT<br>TT<br>TT  | TG<br>TG<br>TG<br>TG   | T G<br>T G<br>T G  | <u>cc</u><br>2370<br><u>cc</u><br>cc<br>cc<br>cc  | GT<br>GT<br>GT<br>GT  | CA<br>CA<br>CA<br>TA  | T C<br>T C<br>T C<br>T C  | <u>G T 1</u><br>23<br>G T 1<br>G T 1<br>G T 1<br>G T 1  | Majority<br>80<br>14352VA.CD<br>18847.CDS1<br>19791.CDS1<br>21127.CDS1   
   | 517.I<br>7.I<br>7.I<br>7.I-1   |
| 2298<br>2305<br>2303<br>2305<br>2306   | A G J<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G   | A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C  | A 1<br>A 1<br>A 1<br>A 1<br>A 1  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | C A<br>2320<br>C A<br>C A<br>C A<br>C A<br>C A  
  | TTA<br>TTA<br>TTA<br>TTA<br>TTA<br>TTA  | A G<br>A G<br>A G<br>A G<br>A G<br>A G  | TT<br>TT<br>TT<br>TT<br>TT<br>TT  | A A<br>233<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | . T G<br>30<br>. T G<br>. T G<br>. T G<br>. T G   
  | G 1<br>G 1<br>G 1<br>G 1<br>G 1  | AT<br>AT<br>AT<br>AT<br>AT<br>AT  | G C<br>G C<br>G C<br>G C<br>G C  | AA<br>AA<br>AA<br>AA<br>AA<br>AA  | AA<br>340<br>AA<br>AA<br>AA<br>AA  
  | CA<br>CA<br>CA<br>CA<br>CA   | AG<br>AG<br>AG<br>AG<br>AG  | TA<br>TA<br>TA<br>TA<br>TA<br>TA  | G A A<br>23:<br>3 A A<br>3 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A   | GA<br>50<br>GA<br>GA<br>GA   
   | TA(<br>TA)<br>TA)<br>TA)<br>TA)<br>TA)   | C T 2<br>T 2<br>T 2<br>T 2<br>T 2<br>T 2   | LTI<br>LTI<br>LTI<br>LTI   | IAG<br>2360<br>IAG<br>IAG<br>IAG<br>IAG  
  | A T<br>A T<br>A T<br>A T<br>A T<br>A T  | TT<br>TT<br>TT<br>TT<br>TT  | TG<br>TG<br>TG<br>TG<br>TG   | T G<br>T G<br>T G<br>C G   | <u>c c</u><br>2370<br><u>c c</u><br>c c<br>c c<br>c c   | GT<br>GT<br>GT<br>GT<br>GT  | CA<br>CA<br>CA<br>TA<br>TA  | T C<br>T C<br>T C<br>T C<br>T C   | <u>G T J</u><br>23<br>G T J<br>G T J<br>G T J<br>G T J<br>G T J   | Majority<br>14352VA.CD<br>18847.CDSI<br>19791.CDSI<br>21127.CDSI<br>21127.CDSI   
   | 517.I<br>7.I<br>7.I<br>7.I-1<br>7.I-2  |
| 2298<br>2305<br>2303<br>2306<br>2306   | A G J<br>A G J<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>J<br>A G   | A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C   | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | C A<br>2320<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A  
  | TTA<br>TTA<br>TTA<br>TTA<br>TTA<br>TTA  | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G                                    | TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT  | A A<br>233<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | T G<br>30<br>T G<br>T G<br>T G<br>T G<br>T G  
  | G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1  | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  | GC<br>GC<br>GC<br>GC<br>GC<br>GC<br>GC   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | A A<br>340<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  
  | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G   | TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA  | G A A<br>23:<br>3 A A<br>3 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A   | G A<br>50<br>G A<br>G A<br>G A<br>G A<br>G A   
   | T A (<br>T A (<br>T A (<br>T A (<br>T A (<br>T A (<br>T A (  | C T J<br>C T J<br>C T J<br>C T J<br>C T J<br>C T J                                     | IT<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I<br>I | I A G<br>2360<br>I A G<br>I A G<br>I A G<br>I A G<br>I A G<br>I A G  
  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T   | TT<br>TT<br>TT<br>TT<br>TT<br>TT  | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G                                    | T G<br>T G<br>T G<br>C G<br>C G  | <u>c c</u><br>2370<br>c c<br>c c<br>c c<br>c c<br>c c<br>c c  | GT<br>GT<br>GT<br>GT<br>GT<br>GT  | CA<br>CA<br>CA<br>TA<br>TA<br>TA  | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C   | <u>G T 2</u><br>23<br>G T 2<br>G T 2<br>G T 2<br>G T 2<br>G T 2   | Majority<br>80<br>14352VA.CDS<br>18847.CDS1<br>19791.CDS1<br>21127.CDS1<br>21127.CDS1                                  
   | 517.I<br>7.I<br>7.I-1<br>7.I-2<br>7.I-3  |
| 2298<br>2305<br>2303<br>2305<br>2306<br>2306<br>2310   | <u>A G</u><br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | A A C<br>A A C  | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA  
  | TTA<br>TTA<br>TTA<br>TTA<br>TTA<br>TTA<br>TTA   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G                             | TT<br>TT<br>TT<br>TT<br>TT<br>TT<br>TT  | A A<br>231<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A   | . T G<br>30<br>T G<br>T G<br>T G<br>T G<br>T G  
  | G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1   | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  |  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | A A<br>340<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  
  | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA  | G A A<br>23:<br>3 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A   | G A<br>50<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>C A  
   | T A (<br>T A (   | C T 3<br>T 3<br>T 3<br>T 3<br>T 3<br>T 3<br>T 3  |  | I A G<br>2360<br>I A G<br>I A G<br>I A G<br>I A G<br>I A G<br>I A G<br>I A G   
  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | TT<br>TT<br>TT<br>TT<br>TT<br>TT  | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G                             | T G<br>T C G<br>T C C G<br>T C C G<br>T C C C G  | <u>c c</u><br>2370<br><u>c c</u><br>c c<br>c c<br>c c<br>c c<br>c c   | G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T  | CA<br>CA<br>CA<br>TA<br>TA<br>CA  | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C   | <u>G T 1</u><br>23<br>G T 1<br>G T 1  | Majority<br>14352VA.CD:<br>1847.CDS1<br>19791.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>FBG.CDS17.<br>FBG.CDS17.   
   | 517.I<br>7.I<br>7.I-1<br>7.I-2<br>7.I-3<br>I-1   |
| 2298<br>2305<br>2303<br>2305<br>2306<br>2310<br>2310<br>2310<br>2310   | A G J<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | A A C<br>A A C   | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1   | A A<br>A A<br>A A<br>A A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA   
   | TTA<br>TTA<br>TTA<br>TTA<br>TTA<br>TTA<br>TTA<br>TTA<br>TTA   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G                      | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T                                 | A A<br>231<br>A A<br>A A<br>A A<br>A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A  | T G<br>30<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G   
   | G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1   | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  |  | A A<br>A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A  | AA<br>340<br>AAA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA  
   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA   | A G<br>A C<br>A C<br>A C<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  | G A A<br>23:<br>3 A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A A   | GA<br>50<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   
   | T A (<br>T A (   | C T 3<br>T 3<br>T 3<br>T 3<br>T 3<br>T 3<br>T 3<br>T 3<br>T 3<br>T 3                   |  | I A G<br>2360<br>I A G<br>I A G  
  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>T<br>A T<br>T<br>A T                       | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T   | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G               | T G<br>T G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G |   | G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T   | CA<br>CA<br>CA<br>TA<br>TA<br>TA<br>CA<br>CA  | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C  | G T 2<br>23<br>G T 2<br>G T 3<br>G T | Majority<br>14352VA.CD<br>14352VA.CDS1<br>18847.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>FBG.CDS17.<br>FBG.CDS17.   | 517.I<br>7.I<br>7.I-1<br>7.I-2<br>7.I-3<br>I-1<br>I-2<br>I-3   |
| 2298<br>2305<br>2303<br>2305<br>2306<br>2306<br>2310<br>2310<br>2310<br>2310<br>2310   | <u>A G</u><br><u>A</u> G<br><u>A</u> G<br><u>A</u> G<br><u>A</u> G<br><u>A</u> G<br><u>A</u> G<br><u>A</u> G<br><u>A</u> G<br><u>A</u> G  | A A C<br>A A C   | A I<br>A I<br>A I<br>A I<br>A I<br>A I<br>A I<br>A I   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA   
   | T T A<br>T T A   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G                      | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T                          | A A<br>231<br>A A<br>A A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   | . T G<br>30<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G  
  | ; G 1<br>; G 1   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  |  | A A<br>A<br>A A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   | A A<br>340<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   
  | C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  | G A A<br>23:<br>3 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A<br>5 A A A<br>5 A A<br>5 A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A A   | GA<br>50<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   
   | T A (<br>T A ()))))))))))))))))))))))))))))))))))  | CTI<br>TI<br>TI<br>TI<br>TI<br>TI<br>TI<br>TI<br>TI                                    |  | I A G<br>2360<br>I A G<br>I A G  
  | A T<br>A T<br>A T<br>T<br>T<br>A T<br>T<br>T<br>A T<br>T<br>T<br>T                          | T T<br>T T T<br>T T T<br>T T T<br>T T T<br>T T<br>T T<br>T T  | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G               | T G G G G G G G G G G G G G G G G G G G  | <u>c</u> c<br>2370<br>c c<br>c c<br>c c<br>c c<br>c c<br>c c<br>c c<br>c c<br>c c<br>c  | G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T<br>G T   | CA<br>CA<br>CA<br>TA<br>TA<br>CA<br>CA<br>CA<br>CA<br>CA  | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C  | G T 2<br>23<br>G T 2<br>G T | Majority<br>14352VA.CD<br>14352VA.CD<br>18847.CDS1<br>19791.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>FB6.CDS17.<br>FB6.CDS17.<br>FB6.CDS17.<br>SP10291.CD   | 517.I<br>7.I<br>7.I-1<br>7.I-2<br>7.I-3<br>I-1<br>I-2<br>I-3<br>517.I  |
| 2298<br>2305<br>2303<br>2306<br>2306<br>2310<br>2310<br>2310<br>2310<br>2310<br>2310   | <u>A G</u><br><u>A</u> G<br><u>A</u> G<br><u>A</u> G<br><u>A</u> G<br><u>A</u> G<br><u>A</u> G<br><u>A</u> G<br><u>A</u> G<br><u>A</u> G<br><u>A</u> G  | A A C<br>A A C  | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1   | A A<br>A<br>A A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A  | C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A  
  | T T A<br>T T A  | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G                      | T T<br>T T T<br>T T T<br>T T T<br>T T<br>T T<br>T T<br>T T<br>T                             | A A<br>231<br>A A<br>A A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   | T G<br>30<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G  
  | ; <u>G</u> ]<br>; G]<br>; G]<br>; G]<br>; G]<br>; G]<br>; G]<br>; G]<br>; G  | A T<br>A T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T   | GC<br>GC<br>GC<br>GC<br>GC<br>GC<br>GC<br>CC<br>CC<br>CC<br>CC<br>CC<br>CC<br>C  | A A<br>2 A A<br>A A A<br>A A A<br>A A A<br>A A<br>A A<br>A A  | A A<br>340<br>A A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  
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  | T A (<br>T A )<br>T A )   |  |  | I A G<br>2360<br>I A G<br>I G<br>I A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  
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| 2298<br>2305<br>2306<br>2306<br>2310<br>2310<br>2310<br>2310<br>2294<br>2306<br>2300<br>2294<br>2306<br>2300   | A G J<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G   | A A C<br>A A C<br>A A A A |  |  | <u>CA</u><br>2320<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA   
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  | <u>; G 1</u><br>; G 1<br>; G | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | <u>G C</u><br><u>C C C C C C C C C C C</u><br><u>C T</u>   | A A<br>2 A A A A A A A A A A A A A A A A A  | <u>A A</u><br>340<br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u><br><u>340</u>     | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>C  | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>T   | G A A<br>23:<br>3 A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A<br>3 A A A A  
   | <u>GA</u><br>50<br>GAA<br>GAA<br>GAA<br>GAA<br>GAA<br>GAA<br>GAA<br>GAA<br>CAA<br>CAA  | T A (<br>T A )<br>T A )      |  |  |   
   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T                          | T T<br>T T T<br>T T T T T<br>T T T T T<br>T T T T<br>T T T<br>T T<br>T T<br>T T<br>T<br>T T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G               | T G<br>T C C C C C C C C C C C C C C C C C C C   | <u><u><u></u></u><br/><u></u><br/><u></u><br/><u></u><br/><u></u><br/><u></u><br/><u></u><br/><u></u><br/><u></u><br/><u></u><br/><u></u><br/><u></u><br/><u></u></u>   | GI<br>GI<br>GI<br>GI<br>GI<br>GI<br>GI<br>GI<br>GI<br>GI<br>GI<br>GI<br>GI<br>G   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>C   | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C  | G T 2<br>23<br>G T 3<br>G T 3<br>G T 3<br>G T 3<br>G T 3<br>G T 4<br>G 4 | Majority<br>14352VA.CD:<br>1847.CDS1<br>1847.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>125.CDS17.<br>SPL0291.CDS17<br>1936VA.CD<br>122560.CDS2<br>Majority<br>50   | 517.I<br>7.I<br>7.I-1<br>7.I-2<br>7.I-3<br>I-1<br>I-2<br>I-3<br>517.I<br>.I<br>517.I<br>17.I  
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| 2298<br>2305<br>2303<br>2306<br>2310<br>2310<br>2310<br>2310<br>2310<br>2394<br>2306<br>2300<br>2307   | A G J<br>A G J<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | A A C<br>A br>A C<br>A   |  |  | <u>C A</u><br>2320<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A   
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| 2298<br>2305<br>2303<br>2306<br>2310<br>2310<br>2310<br>2310<br>2307<br>2307<br>2307<br>2368<br>2375<br>2373   | A G J<br>A G J<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  |   |  |  | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>C   
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| 2298<br>2305<br>2305<br>2306<br>2310<br>2310<br>2310<br>2310<br>2394<br>2306<br>2394<br>2307<br>2397<br>2368<br>2375<br>2375   | <u>A G :</u><br><u>A G :</u>      |   |  |  | <u>СА</u><br>2320<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА  | <u>T 1 A</u><br>AAAAAAAAAAAA<br>TTTTTTTTTTTTTTT<br>TTTTTTTT   | A G G G G G G G G G G G G G G G G G G G   | T T T T T T T T T T T T T T T T T T T   | A A<br>233<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A   
   | . Т G<br>30<br>Т G<br>Т G<br>Т C<br>Т C<br>Т C<br>С G<br>00<br>С C<br>С C<br>С<br>С С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С  | G J<br>G J<br>G J<br>G J<br>G J<br>G J<br>G J<br>G J<br>G J<br>G J   
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   | $\begin{array}{c} \underline{G} & \underline{A} & \underline{A} \\ & \underline{23} & \underline{4} & \underline{4} \\ & \underline{3} & \underline{4} & \underline{3} & \underline{3} \\ & \underline{3} & \underline{4} & \underline{3} & \underline{3} \\ & \underline{3} & \underline{5} & \underline{5} & \underline{5} & \underline{5} \\ & \underline{5} & \underline{5} & \underline{5} & \underline{5} & \underline{5} \\ & \underline{5} & \underline{5} & \underline{5} & \underline{5} \\ & \underline{5} & \underline{5} \\ & \underline{5} & \underline{5} & \underline{5} \\ & \underline{5} & \underline{5} \\ & \underline{5} & \underline{5} \\ & \underline{5} & \underline{5} \\ & 5$ | GA<br>50<br>GAAAA<br>GAAAA<br>GAAAA<br>GAAA<br>GAAA<br>GAAA<br>TTT<br>TTT  | <u>T A (</u><br>T A (<br>T A )<br>T A )<br>T A (<br>T A )<br>T A (<br>T A )<br>T A )<br>T A )<br>T A (<br>T A )<br>T A |  |  | I A G         2360           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G   
       I A G         1 A G           I A G         1 A G           I A G         1 A G           I A G         1 A G  | A T TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  | T T<br>T T T T T T T T T T T T T T T T T T  | T G G G G G G G G G G G G G G G G G G G  |  | <u>с с</u><br>2370<br>С С С С С С<br>С С С С С<br>С С С С С<br>С С С С<br>С С С С<br>С С С С С<br>С С С С С<br>С С С С С<br>С С С С С С<br>С С С С С<br>С С С С С<br>С С С С С С<br>С С С С С<br>С С С С С С С<br>С С С С С С С С<br>С С С С С С С С<br>С С С С С С С С С С<br>С | G T<br>G T I I I I I I I I G<br>G G G G G G G T<br>G G T<br>G G G G G T<br>G G G G  | CA<br>CA<br>CA<br>CA<br>CA<br>A<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA   | T C C C C C C C C C C C C C C C C C C C   | G T J<br>23<br>G T J<br>G T J  |
Majority<br>14352VA.CD<br>18847.CDS1<br>1877.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>FB6.CDS17.<br>FB6.CDS17.<br>FB6.CDS17.<br>SP10291.CDS<br>10936VA.CD<br>10936VA.CD<br>10936VA.CD<br>14352VA.CDS1<br>18847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847.CDS1<br>1847   | S17.I<br>7.I<br>7.I-1<br>7.I-2<br>7.I-3<br>1-1<br>I-2<br>I-3<br>S17.I<br>I<br>517.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I   |
| 2298<br>2305<br>2305<br>2306<br>2310<br>2310<br>2310<br>2310<br>2307<br>2394<br>2306<br>2307<br>2368<br>2375<br>2373<br>2375   | A G J<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G   | A A C<br>A A C<br>A A C<br>A A A C<br>A A A C<br>A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A A<br>A A A A A A<br>A A A A A A A A<br>A   |  |  | <u>СА</u><br>2320<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА  
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| 2298<br>2305<br>2308<br>2306<br>2310<br>2310<br>2310<br>2300<br>2307<br>2307<br>2307<br>2307<br>2307<br>2375<br>2373<br>2375<br>2376<br>2376   | A G J<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G   | A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A A<br>A A A C<br>A A A A   |  |  | <u>СА</u><br>2320<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА<br>СА  
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  | 5 G J<br>6 J<br>6 J<br>6 J<br>6 J<br>6 J<br>6 J<br>6 J<br>6 J<br>6 J<br>6  |   | <u>G C</u><br><u>G C C C C C C C C C C C C C C C C C C C</u>   | A A<br>A A A A A A A A A A A A A A A A A A  | A-340<br>340<br>340<br>340<br>340<br>340<br>340<br>340<br>340<br>340   
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  |  | I A G         2360           I A G         1 A G           I A G <td>A T<br/>A T T T T A A A A A A A A A A A A A</td> <td>T T<br/>T T T T T T T T T T T T T T T T T T</td> <td>T G<br/>T T G G G G G G G G G G G G G G G G</td> <td>I G<br/>2 C C G G G G G G G G G G G G G G G G G</td> <td>CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC</td> <td>G T<br/>G T T T T T G<br/>G G G G G G G G G G G</td> <td>CA<br/>CA<br/>CA<br/>CA<br/>A<br/>A<br/>CA<br/>A<br/>CA<br/>A<br/>CA<br/>A<br/>CA<br/>A<br/>CA</td> <td>T C<br/>T C C C C<br/>T T C C C C C<br/>A A<br/>A A<br/>A A<br/>A<br/>A A<br/>A<br/>A<br/>A<br/>A<br/>A<br/>A</td> <td>G T J<br/>23<br/>G T J<br/>G T J G T J<br/>G T J G T J<br/>G T J G G</td> <td>Majority<br/>14352VA.CD:<br/>1847.CDS1<br/>1847.CDS1<br/>19791.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>1962.CDS17.<br/>FB6.CDS17.<br/>FB6.CDS17.<br/>SP10291.CD<br/>1925.CDS17<br/>1936VA.CD<br/>12256U.CDS<br/>13256U.CDS<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>12127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS</td> <td>517.I<br/>7.I<br/>7.I<br/>7.I-1<br/>7.I-2<br/>7.I-3<br/>1-3<br/>517.I<br/>1-2<br/>517.I<br/>1.1<br/>517.I<br/>7.I<br/>7.I<br/>7.I-1<br/>7.I-3</td>   | A T<br>A T T T T A A A A A A A A A A A A A  | T T<br>T T T T T T T T T T T T T T T T T T  | T G<br>T T G G G G G G G G G G G G G G G G                                       | I G<br>2 C C G G G G G G G G G G G G G G G G G   | CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  | G T<br>G T T T T T G<br>G G G G G G G G G G G   | CA<br>CA<br>CA<br>CA<br>A<br>A<br>CA<br>A<br>CA<br>A<br>CA<br>A<br>CA<br>A<br>CA  | T C<br>T C C C C<br>T T C C C C C<br>A A<br>A A<br>A A<br>A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A            | G T J<br>23<br>G T J<br>G T J G T J<br>G T J G T J<br>G T J G G   |
Majority<br>14352VA.CD:<br>1847.CDS1<br>1847.CDS1<br>19791.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>1962.CDS17.<br>FB6.CDS17.<br>FB6.CDS17.<br>SP10291.CD<br>1925.CDS17<br>1936VA.CD<br>12256U.CDS<br>13256U.CDS<br>14352VA.CD<br>14352VA.CD<br>14352VA.CD<br>14352VA.CD<br>12127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS   | 517.I<br>7.I<br>7.I<br>7.I-1<br>7.I-2<br>7.I-3<br>1-3<br>517.I<br>1-2<br>517.I<br>1.1<br>517.I<br>7.I<br>7.I<br>7.I-1<br>7.I-3   |
| 2298<br>2305<br>2306<br>2306<br>2310<br>2310<br>2390<br>2390<br>2390<br>2390<br>2397<br>2396<br>2375<br>2376<br>2375<br>2376<br>2375   | A G J<br>A   |   |  |  | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>C  |   
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   | 5 G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1<br>G 1   |   | GC<br>CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  | A A<br>A A A A A A A A A A A A A A A A A A  | AA<br>340 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | CA<br>CCAAACCCAA<br>CCCCAACCCAA<br>CCCAACCCAA<br>CCCAACCCAA<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T   | A G<br>AAAAAAAAAAAA<br>C C C C C C C C C C C C C   
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   |  |  | I A G         2360           I A G         1 A G           I A G <td>A T<br/>A A A A A A A A A A A A A A A A A A</td> <td>T T<br/>TTTTTTTTTTT<br/>G G S S S S S S S S S S S S S S S S S S</td> <td>T G G G G G G G G G G G G G G G G G G G</td> <td>T G G G G G G G G G G G G G G G G G G G</td> <td>CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC</td> <td>GI<br/>GITITITITITI<br/>GGGGGGGGGGGGG<br/>I<br/>GGGGGGGG</td> <td>CAAAAACCCAAAAACCCAAAAACCCCAAAAAACCCCAAAA</td> <td>T C<br/>TTTTTTTTCCCCC<br/>A A<br/>A A A A A A A A A A A A A A A</td> <td>G T J<br/>23<br/>G T J<br/>G T J J<br/>G T J<br/>G T J J<br/>G T J J<br/>G T J J J J J J J J J J J J J J J J J J</td> <td>Majority<br/>14352VA.CD<br/>18847.CDS1<br/>1877.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>1963.CDS17.<br/>FB6.CDS17.<br/>SP10291.CDS1<br/>10382VA.CD<br/>14352VA.CD<br/>14352VA.CDS1<br/>18847.CDS1<br/>18847.CDS1<br/>18847.CDS1<br/>18847.CDS1<br/>18847.CDS1<br/>18847.CDS1<br/>18847.CDS1<br/>18847.CDS1<br/>18847.CDS1<br/>18847.CDS1<br/>18847.CDS1<br/>1986.CDS17.<br/>TB6.CDS17.<br/>TB6.CDS17.<br/>TB6.CDS17.</td> <td>517.I<br/>7.I<br/>7.I-1<br/>7.I-2<br/>7.I-3<br/>517.I<br/>1<br/>517.I<br/>17.I<br/>17.I<br/>17.I<br/>17.I<br/>17.I<br/>2.I-3<br/>17.I<br/>17.I<br/>17.I<br/>2.I-3<br/>1-1<br/>17.I<br/>2.I-3<br/>1-1<br/>17.I<br/>2.I-3<br/>1-1<br/>17.I<br/>2.I-3<br/>1-1<br/>17.I<br/>2.I-3<br/>17.I<br/>2.I-3<br/>17.I<br/>2.I-3<br/>17.I<br/>2.I-3<br/>17.I<br/>2.I-3<br/>17.I<br/>2.I-3<br/>17.I<br/>2.I-3<br/>17.I<br/>2.I-3<br/>17.I<br/>2.I-3<br/>17.I<br/>2.I-3<br/>17.I<br/>2.I-3<br/>17.I<br/>2.I-3<br/>17.I<br/>2.I-3<br/>17.I<br/>2.I-3<br/>17.I<br/>17.I<br/>17.I<br/>17.I<br/>17.I<br/>17.I<br/>17.I<br/>17.I</td>  | A T<br>A A A A A A A A A A A A A A A A A A  | T T<br>TTTTTTTTTTT<br>G G S S S S S S S S S S S S S S S S S S   | T G G G G G G G G G G G G G G G G G G G  | T G G G G G G G G G G G G G G G G G G G  | CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  | GI<br>GITITITITITI<br>GGGGGGGGGGGGG<br>I<br>GGGGGGGG  | CAAAAACCCAAAAACCCAAAAACCCCAAAAAACCCCAAAA  | T C<br>TTTTTTTTCCCCC<br>A A<br>A A A A A A A A A A A A A A A  | G T J<br>23<br>G T J<br>G T J
J<br>G T J<br>G T J J<br>G T J J<br>G T J J J J J J J J J J J J J J J J J J  | Majority<br>14352VA.CD<br>18847.CDS1<br>1877.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>1963.CDS17.<br>FB6.CDS17.<br>SP10291.CDS1<br>10382VA.CD<br>14352VA.CD<br>14352VA.CDS1<br>18847.CDS1<br>18847.CDS1<br>18847.CDS1<br>18847.CDS1<br>18847.CDS1<br>18847.CDS1<br>18847.CDS1<br>18847.CDS1<br>18847.CDS1<br>18847.CDS1<br>18847.CDS1<br>1986.CDS17.<br>TB6.CDS17.<br>TB6.CDS17.<br>TB6.CDS17.  | 517.I<br>7.I<br>7.I-1<br>7.I-2<br>7.I-3<br>517.I<br>1<br>517.I<br>17.I<br>17.I<br>17.I<br>17.I<br>17.I<br>2.I-3<br>17.I<br>17.I<br>17.I<br>2.I-3<br>1-1<br>17.I<br>2.I-3<br>1-1<br>17.I<br>2.I-3<br>1-1<br>17.I<br>2.I-3<br>1-1<br>17.I<br>2.I-3<br>17.I<br>2.I-3<br>17.I<br>2.I-3<br>17.I<br>2.I-3<br>17.I<br>2.I-3<br>17.I<br>2.I-3<br>17.I<br>2.I-3<br>17.I<br>2.I-3<br>17.I<br>2.I-3<br>17.I<br>2.I-3<br>17.I<br>2.I-3<br>17.I<br>2.I-3<br>17.I<br>2.I-3<br>17.I<br>2.I-3<br>17.I<br>17.I<br>17.I<br>17.I<br>17.I<br>17.I<br>17.I<br>17.I  |
| 2298<br>2305<br>2306<br>2306<br>2310<br>2294<br>2310<br>2310<br>2300<br>2300<br>2307<br>2368<br>2375<br>2376<br>2376<br>2376<br>2376<br>2380<br>2380<br>2380<br>2380   | A G J<br>A   |   |  |  | <u>СА</u><br>1320<br>САА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>СС   | I         I   
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   |  |  | I A G         2360           I A G         I A G           I A G <td>A T<br/>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</td> <td>T T TTTTTTTTTTTTTTG G SSSSSSSSSSSSSSSSS</td> <td>T G G G G G G G G G G G G G G G G G G G</td> <td>T G G G G G G G G G G G G G G G G G G G</td> <td><u>СССССССССССССССССССССССССССССССССССС</u></td> <td>G I<br/>G G G G G G G G G G G G G G G G G G</td> <td>CAAAACCCAAAACCCCAAAAACCCCAAAAACCCCAAAAACCCC</td> <td>T C C C C C C C C C C C C C C C C C C C</td> <td>G T 1<br/>23<br/>G T 1<br/>G 1</td> <td>Majority<br/>14352VA.CD:<br/>1847.CDS1<br/>1847.CDS1<br/>19791.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>FBG.CDS17.<br/>FBG.CDS17.<br/>FBG.CDS17.<br/>SP10291.CD<br/>12256U.CDS1<br/>12356U.CDS1<br/>124352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>18791.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.</td> <td>S17.I<br/>7.I<br/>7.I-1<br/>7.I-2<br/>1-2<br/>1-3<br/>S17.I<br/>517.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I-1<br/>7.I-1<br/>7.I-2<br/>7.I-1<br/>7.I-2<br/>7.I-1<br/>7.I-2<br/>7.I-1<br/>7.I-1<br/>7.I-2<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1<br/>7.I-1</td> | A T<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | T T TTTTTTTTTTTTTTG G SSSSSSSSSSSSSSSSS   | T G G G G G G G G G G G G G G G G G G G  | T G G G G G G G G G G G G G G G G G G G  | <u>СССССССССССССССССССССССССССССССССССС</u>   | G I<br>G G G G G G G G G G G G G G G G G G  | CAAAACCCAAAACCCCAAAAACCCCAAAAACCCCAAAAACCCC   
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   | A T<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  | T T T T T T T T T T T T T T T T T T T   | I G G G G G G G G G G G G G G G G G G G  |  | <u>С С С С С С С С С С С С С С С С С С С </u>   | G I<br>G G G G G G G G G G G G G G G G G G  | CA<br>CCARARA<br>CCARARA<br>ACCCARA<br>AACCCC<br>ACCCARA<br>AACCCC<br>ACCCARA<br>AACCCC<br>ACCCCARARA<br>AACCCCCARARA<br>AACCCCCARARAACCCCC | T C C C C C C C C C C C C C C C C C C C   | G T J<br>23<br>G T J<br>G T | Majority<br>Majority<br>14352VA.CD:<br>1847.CDS1<br>1847.CDS1<br>19791.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>1962.CDS17.<br>SPL0291.CDS1<br>1925.CDS17.<br>1936VA.CD<br>14352VA.CD<br>14352VA.CD<br>14352VA.CD<br>14352VA.CD<br>14352VA.CD<br>14352VA.CD<br>12127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>SPL0291.CDS7<br>FB6.CDS17.<br>FB6.CDS17.<br>FB6.CDS17.<br>SPL0291.CDS1<br>SPL0291.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21   | S17.I<br>7.I<br>7.I-1<br>7.I-2<br>1-3<br>517.I<br>517.I<br>17.I<br>517.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I<br>1-2<br>1-2<br>1-3<br>517.I<br>1-2<br>1-2<br>1-3<br>517.I<br>1-2<br>1-3<br>517.I<br>1-2<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-7<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-7<br>1<br>7.I<br>1-3<br>1<br>1-3<br>517.I<br>1<br>1-3<br>517.I<br>1<br>1-3<br>517.I<br>1<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>517.I<br>1-3<br>1<br>1-3<br>517.I<br>1-3<br>1-3<br>517.I<br>1-3<br>1-3<br>1-3<br>1-3<br>1-3<br>1-3<br>1-3<br>1-3<br>1-3<br>1-3  |
| 2298<br>2305<br>2303<br>2306<br>2310<br>2310<br>2310<br>2310<br>2307<br>2307<br>2307<br>2375<br>2373<br>2375<br>2376<br>2376<br>2380<br>2380<br>2380<br>2380   | <u>A G 1</u><br><u>A G 2</u><br><u>A G 2</u>      |   |  | A A A A A A A A A A A A A A A A A A A  | <u>CA</u><br>2320<br>CAACCAA<br>CCAACCAA<br>CCAACCAAA<br>CCAACCAAA<br>CCAACCAAA<br>CCAACCAAA<br>CCAACCAAAA<br>CCAACCAAAA<br>CCAACCAAAA<br>CCAACCAAAAA<br>CCAACCAAAAAA  |   | A G<br>A A A A A A A A A A A A A A A A A A  | T<br>TTTTTTTTTTTTTTTT<br>A<br>AAAAAAAAAAAAAAAAA   | A A 233<br>A A A A A A A A A A A A A A A A A A A   
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J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G G G G<br>G G G G G<br>G G G G G<br>G G G G  |   | GC<br>GC<br>GC<br>GC<br>GC<br>GC<br>GC<br>GC<br>GC<br>GC<br>GC<br>GC<br>GC<br>G  | A A A A A A A A A A A A A A A A A A A   | A<br>340 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | CA<br>CCCCCCCCCCCCC<br>CCCCCCCCCCCA<br>A<br>T<br>T<br>T<br>T   | A G<br>A A A A A A A A A A A A A A A A A A  | T A<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT   
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   |  |  | I         A         G           23-60         I         A         G           I         A         G         A         G           I         I         A         G         A         G           I         I         A         G         A         G         I           I         I         A         G         A         G         I         I         I         I         I         I         A         G         I <td>A T<br/>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</td> <td>T T TTTTTTTTTTTTTG G 000000000000000000</td> <td>I G G G G G G G G G G G G G G G G G G G</td> <td></td> <td><u>СС</u><br/>2370<br/>СССССССССССССССССССССССССССССССССССС</td> <td>G I<br/>G G G G G G G G G G G G G G G G G G</td> <td>CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</td> <td>T C C C C C C C C C C C C C C C C C C C</td> <td>G T J<br/>23<br/>G T J<br/>G J</td> <td>Majority<br/>14352VA.CD<br/>14352VA.CD<br/>1847.CDS1<br/>1979.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>FBG.CDS17.<br/>FBG.CDS17.<br/>FBG.CDS17.<br/>1936VA.CD<br/>12252VA.CD<br/>18247.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1</td> <td>S17.I<br/>7.I<br/>7.I-1<br/>7.I-2<br/>1-3<br/>S17.I<br/>1<br/>S17.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I-3<br/>7.I-3<br/>7.I-1<br/>7.I-1<br/>7.I-3<br/>7.I-3<br/>817.I<br/>1-2<br/>I-3<br/>S17.I<br/>1-2<br/>I-3<br/>I-3<br/>S17.I<br/>1-2<br/>I-3<br/>I-3<br/>S17.I<br/>1-2<br/>I-3<br/>I-3<br/>I-3<br/>I-3<br/>I-3<br/>I-3<br/>I-3<br/>I-3<br/>I-3<br/>I-3</td>   | A T<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | T T TTTTTTTTTTTTTG G 000000000000000000   | I G G G G G G G G G G G G G G G G G G G  |  | <u>СС</u><br>2370<br>СССССССССССССССССССССССССССССССССССС   | G I<br>G G G G G G G G G G G G G G G G G G  | CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | T C C C C C C C C C C C C C C C C C C C   | G T J<br>23<br>G T J<br>G J |
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| 2298<br>2305<br>2303<br>2306<br>2310<br>2310<br>2310<br>2310<br>2310<br>2310<br>23375<br>2375<br>2373<br>2375<br>2375<br>2375<br>2376<br>2376<br>2376<br>2376<br>2370<br>2380<br>2380<br>2380<br>2380<br>2380<br>2380<br>2380<br>2377  | <u>A G</u><br><u>A /u>  |   |  | A A A A A A A A A A A A A A A A A A A  | <u>С А</u><br>2320<br>С А<br>С А<br>С А<br>С А<br>С А<br>С А<br>С А<br>С А   |   | A G<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | TTTTTTTTTT<br>TTTTTTTTTTT<br>A AAAAAAAAAAAAAA   | A 233 A A A A A A A A A A A A A A A A A  
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  |  |  | I A G           2360           I A G G G A           I A G G G A           I A G G G A           I A G G G A           I A G G G A           I A G G G A           I A G G G A           I A G G G A           I A G G G A           I A G G G A           I A G G G A           I A G G A           I A G G A           I A G G A           I A G G A           I A G A   
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| 2298<br>2305<br>2303<br>2306<br>2306<br>2310<br>2310<br>2310<br>2394<br>2375<br>2375<br>2376<br>2376<br>2376<br>2370<br>2380<br>2380<br>2380<br>2380<br>2380<br>2380<br>2380<br>238  | <u>A</u> G :<br><u>A</u>  |   |  | <u>А А</u><br><u>А</u><br><u>А</u><br><u>А</u><br><u>А</u><br><u>А</u><br><u>А</u><br><u>А</u><br><u>А</u><br><u>А</u><br><u></u>  | <u>СА</u><br>2320<br>2022<br>2023<br>2023<br>2023<br>2023<br>2023<br>202   | T TAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | A G<br>A G G G G G G G G G G G G G G G G G  | TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT                   
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  | A TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  | T T TTTTTTTTTTTTT<br>TTTTTTTTTTTTTTTTTTTT   | T G G G G G G G G G G G G G G G G G G G  |  | C-2370 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC   | G T<br>G T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T   | C A A A A A A A A A A A A A A A A A A A   | T C C C C C C C C C C C C C C C C C C C   | G T )<br>23<br>G T )<br>G T )  | Majority<br>Majority<br>14352VA.CD:<br>1847.CDS1<br>18791.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>12560.CDS17.<br>SP10291.CD<br>122560.CDS17.<br>1936VA.CD<br>122560.CDS17.<br>1936VA.CD<br>14352VA.CD<br>14352VA.CD<br>12127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1   | S17.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I   |
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  | T A           T A           T A           T A           T A           T A           T A           T A           T A           T A           T A           T A           T A           T A           T T A           T T T           A T T           A T           A T  |  |  | TAG<br>2360<br>CAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG   
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| T AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | A G G G G G G G G G G G G G G G G G G G   | I TITITITITITA A AAAAAAAAAAAAAAAAAAAAAA   | A 2 A A A A A A A A A A A A A A A A A A  | T         G         G           30         T         T         C         G           1         T         T         T         C         G           00         C         C         G         G         C           01         T         T         T         T         T         T         T           02         C         C         G         C         C         G         C <td></td> <td>A T<br/>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</td> <td>G C C C C C C C C C C C C C C C C C C C</td> <td>A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</td> <td>A-340 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</td> <td>C A<br/>CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC</td> <td>A G G C C C C C C C C C C C C C C C C C</td> <td>TA<br/>TITAA<br/>TITAA<br/>TITAA<br/>TITAA<br/>TIG<br/>TIGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG</td> <td><u> </u></td> <td>GA<br/>50<br/>CCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</td> <td>T         A           T         T</td> <td></td> <td></td> <td>I         2         3         6         7         <th7< th=""> <th7< th=""> <th7< th=""> <th7< th=""></th7<></th7<></th7<></th7<></td> <td>A TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT</td> <td>T T TYTETTTY G G GGGGGGGGGGGGGGGGGG T T TYTETTTY</td> <td>T G GOGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG</td> <td>T TTTTCCCTTTCCTTTCCCCCCCCCCCCCCCCCCCCC</td> <td>C 2370 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC</td> <td>G T TTTTTTTTT G CGGGGGGGGGG A A AAAAAAAAAA</td> <td>C C C C T T C C C T C C C C C C C C C C</td> <td>T C C C C C C C C C C C C C C C C C C C</td> <td>G T /<br/>23 G T /<br/>G /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T /<br/>G T 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   | C A<br>CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC   | A G G C C C C C C C C C C C C C C C C C   | TA<br>TITAA<br>TITAA<br>TITAA<br>TITAA<br>TIG<br>TIGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG  | <u> </u>   | GA<br>50<br>CCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   
  | T         A           T         T  |  |  | I         2         3         6         7 <th7< th=""> <th7< th=""> <th7< th=""> <th7< th=""></th7<></th7<></th7<></th7<>   
   | A TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  | T T TYTETTTY G G GGGGGGGGGGGGGGGGGG T T TYTETTTY  | T G GOGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG  | T TTTTCCCTTTCCTTTCCCCCCCCCCCCCCCCCCCCC   | C 2370 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC   | G T TTTTTTTTT G CGGGGGGGGGG A A AAAAAAAAAA  | C C C C T T C C C T C C C C C C C C C C   | T C C C C C C C C C C C C C C C C C C C   | G T /<br>23 G T /<br>G /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /<br>G T /   |
Majority<br>14352VA.CD<br>14352VA.CD<br>1847.CDS1<br>19791.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>1252VA.CD<br>12252VA.CD<br>12252VA.CD<br>1242J.CDS17<br>12127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>2127.CDS1<br>2127.CDS1<br>1256C.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>SP10291.CDS1<br>12254VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12254V.CDS17<br>1992J.CDS17<br>19791.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>2127.CDS1<br>1256C.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FB   | S17.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I   |
| 22998<br>2305<br>2306<br>23100<br>23100<br>23100<br>23100<br>2300<br>2394<br>2375<br>2375<br>2375<br>2376<br>2376<br>2376<br>2376<br>2376<br>2377<br>2376<br>2376  | A G   |   |  | A A<br>A<br>A A A A A A A A A A A A A A A A A  | CA<br>2320<br>CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  
  | T T AAAAAAAAA T T TAAAAAAAAAA T T AAAAAA  | A G G G G G G G G G G G G G G G G G G G   | T TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  | A 2 A A A A A A A A A A A A A A A A A A  | I 0 0000000000000000000000000000000000  
  |  | A T<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | G C C C C C C C C C C C C C C C C C C C  | A AAAAAAAAAAAAA G AGGGGGGGGGGGGGGGGG T TTTTTTTT   | A-340 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   
  | C A CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC   | A G<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | T A A A A A A A A A A A A A A A A A A A   | <u>G A A'31 (4 а а а а а а а а а а а а а а а а а а </u>  | GA<br>50 GSSGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG   
   | T         A           T         A           T         A           T         T           A         T           A         T           A         T           A         T  |  |  | A         G           2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1  
  | A D TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT   | T T TYTTTTTTTTT<br>TYTTTTTTTTTTT<br>G GGGGGGGGGG  | T G GSGGGGGGGGGGGGGG I T TITITITITIT A AAAAAAAAAA                                | T TTTTCCTTTCTTTC C CCCCCCCCCCCCCCCCCCC   | C-370 COOCCOOCCOOCCO A-440 A未真真直直点点点点 A A D-10-10-10-10-10-10-10-10-10-10-10-10-10-   | G I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII  | CCUTTTCCCTCCC<br>A AAAAAAAAAAAAAAAAAAAAAAAAAAA  | T C C C C C C C C C C C C C C C C C C C   | G T 1<br>23<br>G T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C T 1<br>C 1 |
Majority<br>14352VA.CD<br>14352VA.CD<br>1847.CDS1<br>19791.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>1942J.CDS1<br>122501.CDS1<br>123500.CDS1<br>12452VA.CD<br>14552VA.CD<br>14552VA.CD<br>14552VA.CD<br>12127.CDS1<br>21127.CDS1<br>21127.CDS1<br>21127.CDS1<br>10936VA.CD<br>12560.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>FBG.CDS17.<br>SP10291.CDS<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>12352VA.CD<br>1235   | S17.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I<br>5.1<br>7.I<br>5.1<br>7.I<br>5.1<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I<br>7.I  |
| 22988<br>2305<br>2306<br>23100<br>2294<br>23100<br>2390<br>2390<br>2390<br>2390<br>2390<br>2390<br>2390<br>23  | A G 2<br>A   |   |  | A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A  | CA<br>1320<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | T TATATATATATATATATATATATATATATATATATAT   
   | A G<br>A A A A A A A A A A A A A A A A A A  | T TITTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  | A 2 A A A A A A A A A A A A A A A A A A  |  
   |  | A T<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | G COCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  | A AAAAAAAAAAAAAA G GGGGGGGGGGGGGGGGGGG  | A-340 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | C A ASAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | A G<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   
  | T A A A A A A A A A A A A A A A A A A A   |  | GAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
  | T         A           T         T  |  |  | A         G           2         36         36           1         2         36         36           1         1         36         36           1         1         2         36           1         1         2         36           1         1         2         3           1         1         2         4           1         2         3         7           1         1         2         3         7           1         1         2         3         7           1         1         2         3         7           1         1         2         3         7           1         1         2         3         7           1         1         2         3         7           1         1         3         1         7           1         3         1         1         3           2         1         1         3         1           2         1         1         3         1           2         1         1         1         3   
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| 2298<br>2305<br>2306<br>2310<br>2310<br>2310<br>2310<br>2310<br>2394<br>2394<br>2396<br>2397<br>2375<br>2376<br>2380<br>2380<br>2380<br>2380<br>2387<br>2380<br>2380<br>2387<br>2376<br>2380<br>2380<br>2387<br>2377<br>2376<br>2380<br>2387<br>2375<br>2376<br>2380<br>2387<br>2375<br>2376<br>2380<br>2387<br>2375<br>2376<br>2380<br>2387<br>2375<br>2376<br>2380<br>2387<br>2387<br>2387<br>2387<br>2387<br>2387<br>2387<br>2387 | A G J<br>A G J<br>A G G<br>A G G<br>A G G<br>A A A A A A G G<br>A A A A A A A A A A A A A A A A A A A  | A A CARACACIÓN A A A A A A A A A A A A A A A A A A A  |  | A A A A A A A A A A A A A A A A A A A  | CA<br>2320<br>CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC   
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G</td><td>Majority<br/>Majority<br/>Majority<br/>Majority<br/>1847.CDS1<br/>1847.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>12127.CDS1<br/>12127.CDS1<br/>12560.CDS7.<br/>1942J.CDS17<br/>1936VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>12127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>21127.CDS1<br/>10936VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>14352VA.CD<br/>122560.CDS7.<br/>5910251.CD<br/>942J.CDS17<br/>1565.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.<br/>576.CDS17.</td><td>S17.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I<br/>5.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I<br/>7.I<br/>7</td></t<>   | A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | T TTTTTTTTTTTT G BBGGBBGSBB T TTTTTTTTTT  | T COGGOOGOOGO I T TITTTTTTTTTT A AAAAAAAAAAAAAAAAAAA                             | T CSSCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  | C-37-00000000000000000000000000000000000  | G TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  | C COUTTIECCOTOCO A ARARARARARARARARARARARARARARARARARAR   | T C C C C C C C C C C A A A A A A A A A   | G T J<br>23<br>G T J<br>G T G T J<br>G T G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G<br>T G G G<br>T G G G<br>T G G G<br>T G G G<br>T G G G<br>T G G G<br>T G G G<br>T G G G<br>T G G G<br>T G G G<br>T G G G<br>T G G G G<br>T G G G G<br>T G G G G<br>T G G G G<br>T G G G G G<br>T G G G G<br>T G G G G<br>T G G G G G G<br>T G   |
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   | TAT   | ТСТ   | GTA   | TTC   
   | TTT   | GGC   | CTAI   | AAA  
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| 2507  | TACAA   | TGATO   | ACCO  | <u>атс</u> т   
   
  | AGA                          
   | ΑΤΤΑ   | TTC   | a a a  
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   | ተ ተ ተ   | G G C   | CTA  | 0 A A  
   | GACC   | A:A  | 14352VA.CDS17.T   
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| 2515  | CACAAO  | TGATG   | ATGC  | A T C T  
   
  | AGA                          
   | ATTA   | TTC   | AAA  
  | A.C.T.G  
   
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   | TTT   | G G C   | TA   | A A A  
   | GACC   | A A  | 18847.CDS17.I   
  |
| 2513  | CACAAO  | CGATG   | ATGC  | A T C I  
   
  | AGA.                         
   | ATTA   | TTC   | AAA  
  | ACTG   
   
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   | T A T   | TCT   | GTA   | TTC   
   | TTT   | GGC   | CTA)   | A.A.A  
   | GACC   | A A  | 19791.CDS17.I   
  |
| 2515  | CACAAO  | JIGATG  | ATGC  | ATCI   
   
  | AGA                          
   | ATTA   | TTC   | AAA  
  | ACTG   
   
  | TCAI   
   | TAT   | TCT   | GTA   | TTC   
   | TTT   | GGC   | TAI  | AAA  
   | GACC   | A A  | 21127.CDS17.I-1   
  |
| 2516  | CACAA   | TGATG   | ATGC  | A T C 1  
   
  | AGA                          
   | ATTA   | TTC   | A A A  
  | ACTG   
   
  | TCAI   
   |   | тст   | GTA   | TTC   
   | TTT   | GGC   | TTA  | A A A  
   | GACC   | A A  | 21127.CDS17.I-2<br>21127.CDS17.I-3  
  |
| 2520  | CACAA   | TGATG   | ATGC  | ATCI   
   
  | AGA                          
   | ATTA   | TTC   | AAA  
  | ACTG   
   
  | TCAI   
   | TAT   | TCT   | GTA   | TTC   
   | ТТТ   | GGC   | CIA  | A.A.A  
   | GACC   | A A  | FBG.CDS17.I-1   
  |
| 2520  | CACAA   | TGATG   | ATGC  | АТСІ   
   
  | AGA                          
   | АТТА   | TTC   | AAA  
  | ACTG   
   
  | TCAI   
   | ΤΑΤ   | ТСТ   | GTA   | TTC   
   | ТТТ   | GGC   | СТА  | A A A  
   | GACC   | A A  | FBG.CDS17.I-2   
  |
| 2520  | CACAAA  | 5 1 G A I G<br>1 T G N T G  | ATGC.   | 8 T C 1<br>1 T C 1   
   
  | . A G A<br>                  
   | A I I A<br>X T T X   | TTC   | A A A<br>A A A   
  | A C I G  
   
  | TCAJ   
   | LTAT<br>VTAT  |   | G T A   | T T C   
   | TTT   | 660   | CIA.   | 8 A 8<br>1 1 1   
   | GACC   | AA   | FBG.CDS17.1-3<br>SP10201 CDS17 T  
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| 2516  | CACAAO  | TGATG   | ATGC  | ATCT   
   
  | AGA                          
   | ATTA   | TTC   | AAA  
  | ACTG   
   
  | TCAI   
   | TAT   | TCT   | GTA   | TTC   
   | ТТТ   | GGC   | CTA  | AAA  
   | GACC   | AA   | 942J.CDS17.I  
  |
| 2509  | CACAAO  | TGATG   | ATGC  | АТСТ   
   
  | AGA                          
   | ATTA   | TTC   | AAA  
  | GCTG   
   
  | TCAI   
   | ТАТ   | TC-   | GTA   | TTC   
   | TTT   | GGC   | CTA  | AAA  
   | GACC   | A A  | 10936VA.CDS17.I   
  |
| 2517  | CACARO  | STGATO  | ATGC  | A T C I  
   
  | AGA                          
   | A T T A  | TTC   | AAA.   
  | A C T G  
   
  | TCAI   
   | ΤΑΤ   | тст   | GTA   | TTC   
   | TTT   | GGC   | CTAI   | AAA  
   | GACC   | A A  | 12256U.CDS17.I  
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| 2576  | GATATI  | GACAA   | AGTG  | CAAC   
   
  | AAT.                         
   | TATT   | TAA   | A A A  
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  | AAT (  
   | A A T   | TAT   | TAC   | AAA   
   | GTG   | A A A   | TTA  | GAT.   
   | ATTT   | A G  | 14352VA.CDS17.I   
  |
| 2585  | GALALI  |   | AGIG  |  
   
  | AAI                          
   |  | TAA   | A A A<br>1 B 1   
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   | GTG   | A A A<br>3 3 3  |  | 5 A 1.   
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| 2585  | GATATI  | GACAA   | AGTG  | CAAC   
   
  | AAT                          
   | TATT   | TAA   | AAA  
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   | AAT   | TAT   | TAC   | AAA   
   | GTG   | AAA   | TTA  | GAT  
   | ATTT   | A G  | 21127.CDS17.I-1   
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| 2586  | GATAT1  | GACAA   | AGTG  | CAAC   
   
  | AAT                          
   | ΤΑΤΤ   | TAA   | A A A  
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   | GTG   | A A A   | T T A (  | SAT.   
   | ATTT   | AG   | 21127.CDS17.I-2   
  |
| 2586  | GATATI  | GACAA   | AGTG  | CAAC   
   
  | AAT                          
   | TATT   | TAA   | A A A  
  | C T C T  
   
  | A A T (  
   | AAT   | TAT   | TAC   | AAA   
   | GTG   | A A A   | TTA  | GAT.   
   | ATTT   | A G  | 21127.CDS17.I-3   
  |
| 2590  | GATATI  | GACAA   | AGIG  | CAAC   
   
  | AAT                          
   | TATT   | TAA   | AAA  
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  | AAT  
   | AAT   | TAT   | TAC   | AAA   
   | GTG   | AAA   | TTA  | G A T  
   | ATTT   | AG   | FBG.CDS17.I-1   
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| 2590  | GATATI  | GACAA   | AGIG  | CAAC   
   
  | AAT                          
   | TATT   | TAA   | AAA  
  | CTCT   
   
  | A A T (  
   | AAT   | TAT   | TAC   | AAA   
   | GIG   | A A A   | TIA  | GAT  
   | A T T T  | A G  | FBG.CDS17.I-3   
  |
| 2573  | GATATI  | GACAA   | AGTG  | AAG  
   
  | AAT                          
   | TATT   | TAA   | AAA  
  | СТСТ   
   
  | AAT (  
   | AAT   | TAT   | TAC   | AAA   
   | GTG   | AAA   | TTA  | GAT.   
   | ATTT   | A G  | SP10291.CDS17.I   
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| 2586  | GATATI  | GACAA   | AGTG  | CAAC   
   
  | AAT                          
   | ТАТТ   | TAA   | AAA  
  | CTCT   
   
  | A A T (  
   | AAT   | TAT   | TAC   | AAA   
   | GTG   | AAA   | TTA  | GΑT  
   | АТТТ   | A G  | 942J.CDS17.I  
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| 2578  | GATATI  | GACAR   | AGTG  |  
   
  | AAT                          
   | TATT   | TAA   | ARA  
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   | GTG   | AAA   | TTA  | G A T  
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   | A.111.   | A.U.   | 122300.00317.1  
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|   | TAAATO  | GCAAGA  | TATG  | GAAA   
   
  | ATG                          
   | ΤΤΤΑ   | ттт   | TCA  
  | ΑΤΑΑ   
   
  | GTT  
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   | TAG   | AGT   | TGA  | AAT  
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| 2646  | TAAATO  | 2670<br>CAAGA   | TATG  | GAAA   
   
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   | ΤΤΙΑ   | 2<br>T.T.T.   | 690<br>T.C.A   
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   | TAG   | AGT   | 2720<br>T.G.A  | AAT  
   | TTAT   | 2730<br>T.A  | 14352VA.CDS17.I   
  |
| 2646<br>2655  | T A A A T C<br>T A A A T C  | 2670<br>CAAGA<br>CAAGA  | TATG<br>TACG  | G A A A<br>G A A A   
   
  | 2680<br>IATG<br>IATG         
   | T T T A<br>T T T A   | 2<br>T T T<br>T T T   | 690<br>TCA<br>TCA  
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   | T A G<br>T A G  | AGT<br>AGT  | 2720<br>T G A<br>T G A   | A A T<br>A A T   
   | T T A T<br>T T A C   | 2730<br>T A<br>T A   | 14352VA.CDS17.I<br>18847.CDS17.I  
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| 2646<br>2655<br>2653  | T A A A T C<br>T A A A T C<br>T A A A T C   | 2670<br>СААСА<br>СААСА<br>СААСА<br>5 СААСА  | TATG<br>TACG<br>TACG  | 5 A A A<br>5 A A A<br>5 A A A  
   
  | 2680<br>A T G<br>A T G<br>A T
G  | TTTA<br>TTTA<br>TTTA   | 2<br>T T T<br>T T T<br>T T T  | 690<br>T C A<br>T C A<br>T C A   
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   | 00<br>ААА<br>ААА<br>ААА   | T A A<br>T A A<br>T A A   | A A G<br>A A G<br>A A G   | 2710<br>A A T<br>A A T<br>A A T   
   | T A G<br>T A G<br>T A G   | AGT<br>AGT<br>AGT   | 2720<br>T G A<br>T G A<br>T G A  | A A T<br>A A T<br>A A T  
   | T T A T<br>I T A C<br>I T A C  | 2730<br>T A<br>T A<br>T A  | 14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I   
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| 2646<br>2655<br>2653<br>2655  |   | 2670  | TATG<br>TACG<br>TACG<br>TATG  | G A A A<br>G A A A<br>G A A A<br>G A A A<br>G A A A  
   
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   | TTAT<br>TTAC<br>TTAC<br>TTAC   | 2730<br>T A<br>T A<br>T A<br>T A   | 14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2   
  |
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  | 2680<br>  A T G<br>  A T G   
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   | 27<br>G T I (<br>G T I (  
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  | 2730<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A   | 14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-3<br>FBG.CDS17.I-3   
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   | 2680<br>A T G<br>A T G  
  | I I I A<br>I I I A  | 2<br>T T T<br>T T T  | 590<br>T C A<br>T C A<br>T C A<br>T C A<br>T C A<br>T C A<br>T C A  
   | A T A A<br>A T A A  
   
  | 27<br>G T T (<br>G T T (   
                        | 00<br>A A A<br>A A A   | T A A<br>T A A  | A A G<br>A A G   | 2710<br>A A T<br>A A T   
               | T A G<br>T A G  | AGT<br>AGT<br>AGT<br>AGT<br>AGT<br>AGT<br>AGT<br>AGT  | 2720<br>T G A<br>T G A<br>T G A<br>T G A<br>T G A<br>T G A<br>T G A  | A A T<br>A A T   | I I A I<br>I I A C<br>I I A I<br>I I A I<br>I I A I   
   | 2730<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A   | 14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-3<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-2  |
| 2646<br>2655<br>2653<br>2655<br>2656<br>2656<br>2660<br>2660<br>2660<br>2660  | T & A & T (<br>T & A & A T (<br>T & A & A T (<br>T & A & A T (<br>T & A & A T (<br>T & A & A T (<br>T & A & A T (<br>T & A & A T (<br>T & A & A T (<br>T & A & A T (<br>T & A & A T (   |   | T A T G<br>T A C G<br>T A C G<br>T A T G<br>T A T G<br>T A T G<br>T A T G<br>T A T G<br>T A T G<br>T A T G  | G A A A<br>G A A A   
   
  | 2680<br>A T G<br>A T G   
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  | 2710<br>A A T<br>A A T   | T A G<br>T A G   | A G T<br>A G T   
  | 2720<br>T G A<br>T G A  | A A T<br>A A T   |  | 2730<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  
   | 14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-3<br>FBG.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3   |
| 2646<br>2655<br>2655<br>2656<br>2656<br>2660<br>2660<br>2660<br>266   | T         A         A         T           T         A         A         T           T         A         A         T           T         A         A         T           T         A         A         T           T         A         A         T           T         A         A         T           T         A         A         T           T         A         A         T           T         A         A         T           T         A         A         T           T         A         A         T           T         A         A         T           T         A         A         T           T         A         A         T           T         A         A         T   |   | $\begin{array}{c} \mathbf{I} \mathbf{A} \mathbf{T} \mathbf{G} \\ \mathbf{T} \mathbf{A} \mathbf{C} \mathbf{G} \\ \mathbf{T} \mathbf{A} \mathbf{C} \mathbf{G} \\ \mathbf{T} \mathbf{A} \mathbf{T} \mathbf{G} \\ \mathbf{T} \mathbf{G} \\ \mathbf{T} \mathbf{G} \\ \mathbf{T} \mathbf{G} \\ \mathbf{T} \mathbf{G} \\ \mathbf{T} \mathbf{G} \\ \mathbf{T} \mathbf{G} \\ \mathbf{T} \mathbf{G} \\ \mathbf{T} \mathbf{G} \\ \mathbf{G} \\ \mathbf{T} \mathbf{G} \\ \mathbf{G} \\ \mathbf{T} \mathbf{G} \\ $ | G A A A<br>G A A A   
   
   | 2680<br>A T G<br>A T G  
  | T T T A<br>T T T A   |   | 690<br>T C A<br>T C A   
  | A T A A<br>A T A A   
   
  | 27<br>G T T (<br>G T (<br>G T (<br>G T T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G T (<br>G  |  
  | T A A<br>T A A   | A A G<br>A A G  | 2710<br>A A T<br>A A T  | T A G<br>T A G  
  | AGT<br>AGT<br>AGT<br>AGT<br>AGT<br>AGT<br>AGT<br>AGT<br>AGT<br>AGT  | 2720<br>T G A .<br>T G A .   | A A T<br>A A T  | |
                                    | 2730<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A   | 14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-3<br>FBG.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>SP10291.CDS17.I  |
| 2646<br>2655<br>2653<br>2655<br>2656<br>2660<br>2660<br>2660<br>2643<br>2656<br>2648  |   |   | $\begin{array}{c} T A T G \\ T A C G \\ T A C G \\ T A C G \\ T A T \\ T A T \\ T A T \\ T A T \\ T A T \\ T A T \\ T A T \\ T A$   |  
   
  | 2680<br>A T G<br>A T G       
   | T T T A<br>T T T A            | $\begin{array}{c} 2\\ \hline T \ T \ T \ T \\ T \ T \ T \\ T \ T \ T \\ T \ T \$  | 690<br>T C A<br>T C A   
   | A T A A<br>A T A A  
   
   | 27<br>G T T (<br>G T T (  
| 00<br>A A A<br>A A A  | T A A<br>T A A   | 2<br>A A G<br>A A G   | 2710<br>A A T<br>A A T  | T A G<br>T A G  
  | AGT<br>AGT<br>AGT<br>AGT<br>AGT<br>AGT<br>AGT<br>AGT<br>AGT<br>AGT  | 2720<br>T G A<br>T G A  | A A T<br>A A T  |  
   | 2730<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A   | 14352VA.CDS17.I<br>14352VA.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>9420.CDS17.I<br>9420.CDS17.I   |
| 2646<br>2655<br>2655<br>2656<br>2656<br>2660<br>2660<br>2643<br>2656<br>2648<br>2657  |   |   | $\begin{array}{c} T A T G \\ T A C G \\ T A C G \\ T A C G \\ T A T \\ T A T G \\ T A T \\ T A T \\ T A T \\ T A T \\ T A T \\ T A T \\ T A T \\ T A T \\ T A T \\ T A T \\ T A T \\ T \\$  | C A A A<br>G A A A<br>G A A A<br>G A A A<br>G A A A<br>G A A A<br>G A A A<br>G A A A<br>G A A A<br>G A A A<br>G A A A<br>G A A A<br>G A A A<br>G A A A   
   
  | 2680<br>A T G<br>A T G       
  | I I I A<br>I I I A                                  | 2<br>T T T T<br>T T T  | 690<br>T C A<br>T C A   
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  | 27<br>G T T (<br>G T T (  | 00<br>A A A A<br>A A A   
  | T A A<br>T A A  | A A G<br>A A G  | 710<br>A A T<br>A A T  | T A G<br>T A G  
  | A G T<br>A G T  | 2720<br>T G A<br>T G A  | A A T<br>A A T  | T T A T<br>T T A C<br>T T A T<br>T T A T<br>T T A T<br>T T A C<br>T T A T<br>T T A C<br>T T A T<br>T T A C   
   | 2730<br><u>T A</u><br><u>T A A A<br/><u>T A A A A A A A A A A A A A A A A A A A</u></u>  | 14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I<br>942J.CDS17.I<br>19236VA.CDS17.I<br>12256U.CDS17.I  |
| 2646<br>2655<br>2653<br>2655<br>2656<br>2656<br>2660<br>2660<br>2643<br>2656<br>2648<br>2657  |   | 2670<br>C A A G A<br>C A A G A G A<br>C A A G A G A<br>C A A G A G A<br>C A A G A G A<br>C A A G A G A<br>C A A G A G A<br>C A A G A G A<br>C A A G A G A<br>C A A G A G A<br>C A A G A G A<br>C A A G A G A<br>C A A G A G A G A<br>C A A G A G A G A<br>C A A G A G A G A G A G A G A G A G A G   | T A T G<br>T A C G<br>T A C G<br>T A T G<br>T A T G<br>T A T G<br>T A T G<br>T A T G<br>T A T G<br>T A T G<br>T A T G<br>T A T G<br>T A T G<br>T A T G  | 5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>6 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>5 A A A<br>6 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A<br>7 A A A A   
   
  | 2680<br>A T G<br>A T G   
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  | T A A<br>T A A   | A A G<br>A A G   | 710<br>A A T<br>A A T  | T A G<br>T A G  
   | A G T<br>A G T  | 2720<br>T G A .<br>T G A .  | A A T<br>A A T  |  | 2730<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A   
   | 14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>SF10291.CDS17.I<br>19936VA.CDS17.I<br>12256U.CDS17.I   |
| 2646<br>2655<br>2655<br>2656<br>2656<br>2656<br>2660<br>2660<br>266   |   | 2670<br>C A A G A<br>C A A G A   | T # T 6<br>T # C 6<br>T # C 6<br>T # T 6<br>T # T 6<br>T # T 6<br>T # T 6<br>T # T 6<br>T # T 6<br>T # T 6<br>T # T 6<br>T # T 6<br>T # T 6<br>T # T 6  | G A A A<br>S A A A<br>S A A A<br>S A A A<br>G A A A<br>G A A A<br>G A A A<br>G A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A A  
   
   | 2680<br>A T G<br>A T G  
   |  | 2<br>T T T<br>T T T T  | 690<br>T C A<br>T C A   
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   | 27<br>G I I (<br>G I I (   | 00<br>A A A<br>A A A A A<br>A A A A A<br>A A A A A A<br>A A A A A A<br>A   
  | T A A<br>T A A  | A A G<br>A A G   | 710<br>A A T<br>A A T   | T A G<br>T A G  
  | A G T<br>A G T   | 2720<br>T G A<br>T G A  | A A T<br>A A T   |  | 2730<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA                                  
  | 14352VA.CDS17.I<br>14352VA.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>1936VA.CDS17.I<br>10936VA.CDS17.I  |
| 2646<br>2655<br>2655<br>2656<br>2656<br>2660<br>2660<br>2660<br>2643<br>2656<br>2648<br>2657  |   | 2670<br>C A A G A G A<br>C A A G A G A<br>C A A G A<br>C A A G A<br>C A A G A<br>C A A G A<br>C A A G A<br>C A A G A<br>C A A G A<br>C A A G A<br>C A A G A<br>C A A G A<br>C A A G A<br>C A A G A  | T A T C<br>T A C<br>T A C<br>T A C<br>T A T C<br>T A T C<br>T A T C<br>T A T C<br>T A T C<br>T A T C<br>T A T C<br>T A T C<br>T A T C<br>T A T C<br>T A T C<br>T A T C<br>T A T C   |  
   
  | 2680<br>A T G<br>A T G       
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  | 2720<br>T G A<br>T G A   | A A T<br>A A T   |  | 2730<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  
  | 14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-1<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>9420.CDS17.I<br>12256U.CDS17.I   |
| 2646<br>2655<br>2655<br>2656<br>2656<br>2660<br>2660<br>2660<br>2643<br>2656<br>2648<br>2657  | T A A A T C           T A A A T C           T A A A T C           T A A A T C           T A A T C   |   | $\begin{array}{c} T & X & T & G \\ T & X & C & G \\ T & X & C & G \\ T & X & T & T \\ T & X & T & G \\ T & X & T & T \\ T & X & T & G \\ T & X & T & T \\ T & T & T & T \\ T & T & T & T$  |  
   
  | 2680<br>A T G<br>A T G       
   | I T I A<br>I T I A | 2<br>T T T<br>T T T T   | FOO<br>TCA<br>TCA<br>TCA<br>TCA<br>TCA<br>TCA<br>TCA<br>TCA<br>TCA<br>TCA  
  | A T A A<br>A T A A A<br>A T A A A<br>A T A A A<br>A T A A A<br>A T A A A<br>A T A A A<br>A T A A A<br>A T A A A<br>A T A A A<br>A T A A A<br>A T A A A<br>A T A A A<br>A T A A A A   
   
  | 27<br>G T T G<br>G T T G   | 00<br>A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A A<br>A A A A A A A<br>A   | TAA<br>TAA<br>TAA<br>TAA<br>TAA<br>TAA<br>TAA<br>TAA<br>TAA<br>TAA  
   | A A G<br>A A G   | A A T<br>A A T  | T A G<br>T A G  | A G T<br>A G T   
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| 2646<br>2655<br>2655<br>2656<br>2656<br>2660<br>2660<br>2660<br>2643<br>2656<br>2648<br>2657  | 1         2         3         4         1         1           1         2         3         1         1         1         2         1         1         2         1         1         2         3         1         1         1         2         3         1         1         1         1         2         3         1         1         1         2         3         1         1         1         2         3         1         1         1         2         3         1         1         1         2         2         1         2         2         1         2         2         1         2         2         3         1         1         1         2         3         1         1         3         3         1         1         3         3         1         1         3         3         1         1         3 | 2670<br>C A A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C A C A<br>C | $\begin{array}{c} T & T & T \\ T &$  | C A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A<br>S A A A A  
   
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| 26446<br>2655<br>2653<br>2655<br>2656<br>2660<br>2660<br>2643<br>2657<br>2648<br>2657<br>2725<br>2725<br>2725<br>2723<br>2725<br>2726   |   |   |   | G       A       A       A         S       A       A       A       A         S       A       A       A       A         S       A       A       A       A         S       A       A       A       A         S       A       A       A       A         S       A       A       A       A         S       A       A       A       A         S       A       A       A       A         S       A       A       A       A         S       A       A       A       A         S       A       A       A       A         S       A       A       A       A         S       A       A       A       A         S       A       A       A       A         S       A       A       A       A         A       G       A       A       A         A       G       A       A       A         A       G       A       A       A         A       G       A       A <td>2680<br/>A T G<br/>A T T A<br/>A T T A</td> <td></td> <td></td> <td>590<br/>T C A<br/>T C</td> <td>A T A A         <td< td=""><td>27<br/>G T T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T (<br/>G T
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   | 2730<br><u>1</u> 232<br><u>2</u> 730<br><u>2</u> 750<br><u>2</u> 7500<br><u>2</u> 75000<br><u>2</u> 75000<br><u>2</u> 75000<br><u>2</u> 75000<br><u>2</u> 75000<br><u>2</u> 75000<br><u>2</u> 750000<br><u>2</u> 750000<br><u>2</u> 75000000000000000000000000000000000000  | 14352VA.CDS17.I<br>14352VA.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>21127.CDS17.I-3<br>FBG.CDS17.I-1<br>FBG.CDS17.I-3<br>SP10291.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>18352VA.CDS17.I<br>18791.CDS17.I<br>21127.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>21127.CDS17.I-3<br>211                             |
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   | 2680<br>(A T G<br>(A T T A<br>(A T A  
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  | 2720<br>T G A<br>T G A   | A A T T A A A A A A A A A A A A A A A A  | I     T     A     I       I     I     A     C       I     I     A     C       I     I     A     C       I     I     A     C       I     I     A     C       I     I     A     C       I     I     A     C       I     I     A     C       I     I     A     C  | 2730<br><b>T</b> A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   
  | 14352VA.CDS17.I<br>18847.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I<br>1936VA.CDS17.I<br>1936VA.CDS17.I<br>18847.CDS17.I<br>18847.CDS17.I<br>18847.CDS17.I<br>18791.CDS17.I<br>21127.CDS17.I-3<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-1<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3<br>FBG.CDS17.I-3 |
| 26446<br>2655<br>2656<br>2656<br>2660<br>2660<br>2643<br>2656<br>2648<br>2657<br>2725<br>2725<br>2726<br>2726<br>2726<br>2726<br>2726   |   |   |   |  
   
  | 2600<br>A T G<br>A T T A<br>A
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  | TRARS   | A A G C A A A A A A A A A A A A A A A A   | 710       A X T       A A T   | T A G<br>T A G | AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
   | 2720<br>T G A.<br>T G A.   |  | ТТ # []<br>ТТ # С.<br>ТТ # С.<br>ТТ # С.<br>ТТ # С.<br>ТТ # []<br>ТТ # ]<br>ТТ # С.  | 2730<br><b>T</b> A<br><b>X</b> A |
14352VA.CDS17.I<br>14352VA.CDS17.I<br>19791.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>FBG.CDS17.I-2<br>FBG.CDS17.I-3<br>SF10291.CDS17.I<br>10936VA.CDS17.I<br>12256U.CDS17.I<br>12256U.CDS17.I<br>18847.CDS17.I<br>18791.CDS17.I<br>21127.CDS17.I-2<br>21127.CDS17.I-2<br>FBG.CDS17.I-3<br>SF10291.CDS17.I<br>21127.CDS17.I-1<br>21127.CDS17.I-2<br>FBG.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10291.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS17.I-3<br>SF10290.CDS1   |

|   | ATGCTTCAAA  | АТАА   | аааа  | TTA   
   | GC  | - A G   
  | ATA   | AAA   | AA   
  | АТТ            | AA  | CAA  | тат  | GA  | AGA   | AA  
   | A T J   | A T A  | CG  | GT   | ттт  | ΤG  | AT 1  | тт   
  | Majority   |
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  | 0  |
| 1   | ATGCTTCAAA  | ATAA   | A A A   | TTA   
   | G C   | - A G   
  | A T I   | A A A   | A A  
  | A T T          | A A   | ( A A  | T A T  | GA  | A G A   | AA  
   | A T J   | (T)  | C G   | GT   | Ť.T.Ť  | TG  | A 1 1   | n n n  
  | 12256U.CDS17.II-1  |
| 1   | A T G C T T C A A A<br>A T G C T T C A A A  | ATAA<br>ATAA   | A A A A<br>A A A A  | ТТА   
   | GC  | - A G<br>- A G  
  | ATA   | A A A   | AA   
  | A T T<br>A T T | AA  | AA   | TAT  | GA  | AGA<br>AGA  | AA  
   | ATI   | T  | CG<br>CG  | GT   | ТТТ<br>ТТТТ  | TG  | ATI   | TT   
  | 12256U.CDS17.II-2<br>14352VA.CDS17.II  |
| 1   | ATGCTTCAAA  | АТАА   | A A A A   | TTA   
   | GC  | - A G   
  | AT 2  | A A A   | A A  
  | A T T          | A A   | A A  | T A T  | G A   | A G A   | A A   
   | A T J   | L T A  | CG  | GΤ   | ттт  | [-]G  | A T 1   | TT   
  | 16753.CDS17.II-1   |
| 1   | ATGCTTCAAA  | A T A A<br>A T A A   | AAAA  | TTA   
   | GC  | - A G   
  | ATA   | A A A   | AA   
  | a t t<br>A t t | AA  | AA   | TAT  | GA  | a g a<br>A G A  | AA  
   | AIJ   | 1.1.8<br>1.7.3   | L C G   | GT   | TTT  | T G   | ATI   | TT   
  | 19791.CDS17.II-2   |
| 1   | ATGCTTCAAA  | ATAA   | AAAA  | TTA   
   | GC  | - A G   
  | ATI   | AA  | A A  
  | ATT            | AA  | AA   | TAT  | GA  | A G A   | AA  
   | ATZ   | TA   | CG  | GT   | TTT  | TG  | ATT   | TT   
  | 19791.CDS17.II-2   |
| 1   | ATGCTTCAAA  | ATAA.  | A A A A   | TTA   
   | GC  | - A G   
  | ATI   | A A A   | A A  
  | ATT            | AA  | AA   | TAT  | GA  | a G A   | AA  
   | A T I   | t I A  | C G   | _G T   | T T T  | TG  | A T 1   | 1 1<br>T T   
  | 727J.CDS17.II  |
| 1   | ATGCTTCAAA<br>ATGCTTCAAA  | ATAA.<br>ATAA  |   | ТТА   
   | G C   | - A G   
  | ATZ   | AA  | AA<br>AA   
  | A T T<br>A T T | AA  | AA   | TAT  | GA.   | AGA   | A A<br>A A  
   | ATI   | I.I.A  | CG  | GT   | TTT<br>TTT   | TG  | ATI   | TT   
  | 942J.CDS17.II<br>2740.CDS17.II-1   |
| 1   | ATGCTTCAAA  | ATAA   | A A A A   | TTA   
   | GC  | - A G   
  | AT 2  | A A A   | A A [  
  | -TT            | A A   | A A  | T A T  | G A   | A G A   | A A   
   | A T J   | LT.  | CG  | GT   | ттт  | ΤG  | A T 1   | TT   
  | 2740.CDS17.II-2  |
| 1   | ATGCTTCAAA<br>ATGCTTCAAA  | ATAA<br>ATAA   | A.A.A.A<br>A.A.A.A  | TTA   
   | GC<br>GC  | GAG   
  | ATA   | A A<br>A A  | AA   
  | A T T<br>A T T | AA  | AA<br>AA   | TAT  | GA  | AGA<br>AGA  | AA  
   | ATI   | TA   | LCG<br>CG   | GT   | ТТТ<br>ТТТТ  | TG  | ATI   | Т.Т.Т.<br>Т.Т.Т  
  | 7447VA CDS17.II<br>10936VA.CDS17.II  |
|   |   | TTCC   |   |   
   |   |   
  |   | ~ ~ ~   | <b>T T</b>   
  |                |   |  |  |   |   | с. т.   
   |   |  |   | TC   |  |   |   |  
  | Maianiau   |
|   | GIAAIAIIII  | IIGC.  | AAIA  | 60  
   |   |   
  | AGU   | 100   | 11   
  | GII            | 111   | 110  |  |   | IIA   | 120   
   | AAI   | LAA  | LAI   | 130  | AAI  | IG  | AAA   | 14   
  | _ Majority   |
| 70  | GTAATATTT   | TTGC   | ATA   | ATA   
   | GC  | A T T   
  | AGO   | A A   | TT   
  | GTT            | ТТ  | AG   | CGG  | TT  | ТΤА   | CT  
   | A A 1   | AA   | AT  | TC   | A A T  | TG  | AAJ   | AT   
  | 12256U.CDS17.II-1  |
| 70  | GTAATATTT   | TTGC.  | A A T A   | ATA   
   | G C J   | A T T   
  | AGO   | A A   | TT   
  | GTT            | T T   | A.A.G  | CGG  | ΤŤ  | ΙTΑ   | CT  
   | A A 1   | A J  | ΑŤ  | T C  | A A T  | ΤG  | A A J   | A T  
  | 12256U.CDS17.II-2  |
| 69  | GTAATATTT   | TTGC   | AIA   | ATA   
   | GC  | ATT.  
  | AGO   | AA  | TT   
  | GIT            | TT  | AG   | CGG  | TT  | TTA   | C T   
   | AAI   | AA   | AT  | TC   | A A I  | TG  | AAA   | AT   
  | 16753.CDS17.II-1   |
| 69<br>70  | GTAATATTT   | TTGC   | A T A   | ATA   
   | GC.   | A T T<br>N T T  
  | AGO   | AA  | TT   
  | G T T<br>c + T | TT  | AG   | CGG  | TT  | T T A   | C T   
   | AAT   | CAA  | A T   | TC   | A A T  | TG  | AA2   | AT   
  | 16753.CDS17.II-2   |
| 70  | GIAATATIT   | T G C  | A T A   | ATA   
   | GC  | A T T   
  | AGO   | . A A   | ΤŤ   
  | GII            | Ť T   | A A G  | C G G  | T.T.  | I T A   | сī  
   | A A 1   | A A  | AT  | TC.  | A A T  | T.G   | A A A   | AT   
  | 19791.CDS17.II-2   |
| 68<br>70  | G T A A T A T T T T<br>G T A A T A T T T T  | T - G C  | аата<br>аата  | ATA   
   | GC  | A T T<br>A T T  
  | AGO   | . А.А<br>А.А  | TT   
  | GTT<br>GTT     | ТТ  | A G<br>A G   | CGG  | ТТ  | Т.Т.А<br>Т.Т.А  | CT<br>CT  
   | AAJ   | AA   | AT  | TC   | ААТ<br>ААТ   | TG  | AAA   | AT   
  | SP10291.CDS17.II<br>727J.CDS17.II  |
| 70  | GTAATATTT   | TTGC   | A A T A   | ATA   
   | GC  | A T T   
  | A G C   | A A   | ТТ   
  | GTT            | ΤΤ  | A A G  | C G G  | ΤŤ  | ТТА   | ст  
   | A A I   | AA   | ΑT  | TC   | A A T  | TG  | A A J   | A T  
  | 942J.CDS17.II  |
| 69  | GTAATATTT   | TTGC   | A A T A   | ATA   
   | GC  | ATT   
  | AGO   | A A   | TT   
  | GII            | T.T.  | 1. A. G.   | CGGG   | TT  | TTA   | CΤ  
   | AAI   | A A  | A T   | TC   | A A I<br>A A I   | TG  | AAA   | AT   
  | 2740.CDS17.II-1<br>2740.CDS17.II-2   |
| 70  | GTAATATTT   | T - G C  | A A T A   | ATA   
   | GC  | A T T<br>A T T  
  | AGO   | AA  | T T<br>T T   
  | GTT            | TT  | AG   | CGG  | TT<br>TT  | T T A   | CT  
   | AAI   | A A  | A T   | TC   | A A T  | TG  | A A 1   | AT   
  | 7447VA CDS17.II  |
|   |   |  |   |   
   |   |   
  |   |   |  
  |                |   |  |  |   |   |   
   |   |  |   |  |  |   |   | <br>   
  |  |
|   | TTAAAATAGC  | AATA   | гтса  | <u>. T A A</u>  
   | CA  | TTT   
  | ATI   | <u> </u>  | TT   
  | CAA            | CA  | <u> </u>   | TGA  | ATI   | ATT   | GT  
   | TAI   | ΤΑΊ  | TC  | AA.  | AAA  | C   | ATI   | AAT  
  | _ Majority   |
| 140   | 150   | <u> </u>   | The second second second second second second second second second second second second second second second s  | 160   
   |   | program.  
  | 1 <b>2</b> 110110   | 170   | -  
  | 0.303          | 0.00  | 180  | φ(5.1.%  | 1. <b>1</b> .1413   | Notice.   | .0.w.<br>Tan  
   | 1 C 1   | n. gane  | Andreada  | 200  | 1. A. A.   |   | A. 17. 1  | 21   
  | U 12256U.CDS17 TT-1  |
| 140   | TTAAAATAGC  | AATA   | ГТСА  | TAA   
   | CA  | TTT   
  | AT 1  | ГСТ   | ΤŢ   
  | C A A          | CA  | TT   | TGA  | A T   | A T T   | GT  
   | TG  | AI   | ΤÇ  | A A  | A A A  | C   | ATA   | AT   
  | 12256U.CDS17.II-2  |
| 140<br>139  | T T A A A A T A G C<br>T T A A A A T A G C  | A A T A<br>A A T A   | ГТСА<br>ГТСА  | ТАА   
   | CA  | ГТТ<br>ТТТ  
  | ATI   | C T   | T T<br>T T   
  | CAA<br>CAA     | CA  | TT<br>TT   | TGA  | AT.<br>AT   | A T T<br>A T T  | G T<br>G T  
   | TGI   | A T<br>A T   | T C<br>T C  | A A<br>A A   | A A A<br>a a a   |   | ATI   | A T<br>A T   
  | 14352VA.CDS17.II<br>16753.CDS17.II-1   |
| 139   | TTAAAATAGC  | AATA   | I.T.C.A   | TAA   
   | CA  | T.T.T   
  | AT 1  | r c r   | T.T.   
  | C A A          | C.A   | ТТ   | T.G.A  | A T   | A T T   | G T   
   | TAI   | A.1  | T C   | A A  | A A A  | - C   | AT 2  | A T  
  | 16753.CDS17.II-2   |
| 140<br>140  | T T A A A A T A G C<br>T T A A A A T A G C  | A A T A<br>A A T A   | ГТСА<br>ГТСА  | TAA<br>TAA  
   | CA<br>CA  | I T T<br>T T T  
  | ATI   | ГСТ<br>ГСТ  | T T<br>T T   
  | CAA<br>CAA     | CA  | T T<br>T T   | TGA  | AT  | A T T<br>A T T  | GT  
   | TGI   | AI   | T C<br>T C  | A A<br>A A   | A A A<br>A A A   | AC  | ATI   | AT   
  | 19791.CDS17.II-1<br>19791.CDS17.II-2   |
| 137   | TTAAAATAGC  | AATA   | I T C A   | TAA   
   | CA  | I I I   
  | AT 3  | C I   | ΤŢ   
  | C A A          | C.A.  | T T  | TGA  | A T   | A T T   | G T   
   | TAI   | AI   | T C   | A A  | A A A  | - C   | A T J   | A T  
  | SP10291.CDS17.II   |
| 139   | TTAAAATAGC  | AATA   | I T C A   | TAA   
   | C A   | TTT   
  | ATI   | L C I   | TT   
  | CAA            | CA  | TT   | TGA  | AT  | a I I<br>A T T  | GT  
   | TAT   | AI   | T Ç   | AA   | AAA  | AC  | ATA   | AT   
  | 942J.CDS17.II  |
| 140   | TTAAAATAGC  | AATA   | ТТСА  | TAA   
   | CA  | TTT   
  | ATI   |   | TT   
  | CAA            | CA  | TT   | TGA  | AT.   | A T T   | G T   
   | TAT   | T A T  | T C   | AA   | AAA  | - C   | ATZ   | AT   
  | 2740.CDS17.II-1  |
| 139   | TIAAAATAGC  | AATA   | ITCA  | TAA   
   | C A   | T T T   
  | A T 1   | L C T   | ΤŢ   
  | CAA            | Č A   | ΤŤ   | T.G.A  | A T   | A T T   | GI  
   | TA 1  | A 1  | ŤČ  | A A  | A A A  | AC  | A T Z   | AT   
  | 7447VA CDS17.11  |
| 140   | TTAAAATAGC  | AATA   | ГТСА  | TAA   
   | CA  | TT  
  | A.T. 1  | I.C.T   | TT   
  | CAA            | C A   | TT   | TGA  | A.T.  | A T T   | GT  
   | TAI   | LA I   | T C   | A A  | A A A  | AC  | ATI   | A.T  
  | 10936VA.CDS17.II   |
|   |   |  |   |   
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  |                |   |  |  |   |   |   
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  |  |
|   | татаааттт   | АТСТ   | сте   | GGT   
   | ттт   | T A G   
  | A G C   | C.T.  | тт 2   
  |                | тат   | ст   | гат  | 666   |   | та  
   | L G L   | ממ   | ΔТ  | ътс  | ат   | ΔТ  | таа   | дт   
  | Majority   |
|   | TGTAGATTTT<br>220   | ATGT (   | сте   | <u>G G T</u><br>230   
   | TTI   | IAG   
  | AGC   | 240   | TTJ  
  | AAA            | TAT   | <u>C T</u><br>250  | IGT  | GGG   | AG  | T A J   
   | AGA   | AA   | A T   | <u>A T G</u><br>270  | AT   | AT  | TAA   | <u>A T</u><br>280  
  | Majority   |
| 209   | TGTAGATTTT<br>220<br>TGTAGATTTT   | ATGT(  | CTG   | <u>G G T</u><br>230<br>G G T  
   | TTI   | TAG   
  | A G C   | <u>ст</u><br>240<br>ст  | <u>T T J</u>   
  | AAA            | T A T   | <u>ст</u><br>250<br>СТ   | IGT<br>IGT   | GGG   | A G   | <u>TA</u><br>260<br>TA  
   | A G A   | A A<br>A A   | <u>AT</u>   | <u>A T G</u><br>270<br>A T G   | A T  | A T   | T A A<br>T A A  | <u>A T</u><br>280<br>A T   
  | Majority<br>)<br>12256U.CDS17.II-1   |
| 209<br>209<br>210   | <u>T G T A G A T T T T</u><br>220<br>T G T A G A T T T T<br>T G T A G A T T T T   | ATGT(<br>ATGT(<br>ATGT)  | CTG<br>CTG<br>CTG   | <u>G G T</u><br>230<br>G G T<br>G G T<br>G G T  
   | <u>T T 1</u><br>T T 1<br>T T 1  | TAG<br>AG<br>AG   
  | AGC<br>AGC<br>AGC   | C T<br>240<br>C T<br>C T  | TTJ<br>TTJ<br>TTJ  
  | AAA            | T A T<br>T A T<br>T A T<br>T A T  | C T<br>250<br>C T<br>C T   | IGT<br>IGT<br>IGT  | <u>G G G</u><br>G <u>G</u> G<br>G G G   | AG<br>AG<br>AG  | TA<br>260<br>TAJ<br>TAJ   
   | AGA<br>AGA<br>AGA   | A A<br>A A<br>A A  | AT<br>AT<br>AT  | <u>A T G</u><br>270<br><u>A T G</u><br>A T G   | AT<br>AT<br>AT   | AT<br>AT<br>AT  | TAA<br>TAA<br>TAA   | <u>A T</u><br>280<br><u>A T</u><br>A T   
  | Majority<br>)<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VB.CDS17.II-2  |
| 209<br>209<br>210<br>208  | <u>T G T A G A T T T Ț</u><br>220<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>G T A G A T T T T   | ATGT(<br>ATGT(<br>ATGT(<br>ATGT(<br>ATGT(  | CTG<br>CTG<br>CTG<br>CTG<br>CTG   | <u>G G T</u><br>230<br>G G T<br>G G T<br>G <u>G</u> T   
   |   | TAG<br>AG<br>AG<br>AG<br>AG   
  | AGC<br>AGC<br>AGC<br>AGC<br>AGC   | <u>C T</u><br>240<br>C T<br>C T<br>C T<br>C T   | TTJ<br>TTJ<br>TTJ<br>TTJ   
  |                | <u>T A T</u><br>T A T<br>T A T<br>T A T<br>T A T  | C T<br>250<br>C T<br>C T<br>C T<br>C T   | IGT<br>IGT<br>IGT<br>IGT<br>IGT                                    | G G G<br>G G G<br>G G G<br>G G G<br>G G G   | AG<br>AG<br>AG<br>AG<br>AG  | TAI<br>260<br>TAI<br>TAI<br>TAI   
   | AGA<br>GA<br>AGA<br>AGA   | A A<br>A A<br>A A<br>A A<br>A A                                    | AT<br>AT<br>AT<br>AT<br>AT  | ATG<br>270<br>ATG<br>ATG<br>ATG  | AT<br>AT<br>AT<br>AT<br>AT   | AT<br>AT<br>AT<br>AT<br>AT  | TAA<br>TAA<br>TAA<br>TAA<br>TAA   | A T<br>280<br>A T<br>A T<br>A T<br>A T   
  | Majority<br>)<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II<br>16753.CDS17.II-1  |
| 209<br>209<br>210<br>208<br>208<br>208  | <u>T G T A G A T T T T T</u><br>220<br>T G T A G A T T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T  | ATGT(<br>ATGT)<br>ATGT)<br>ATGT<br>ATGT<br>ATGT)   | CTG<br>CTG<br>CTG<br>CTG<br>CTG<br>CTG  | G G T<br>230<br>G G T<br>S G T<br>G - T<br>G G T<br>G - T<br>G G T  
   |   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  
  | AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC   | C T<br>240<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   | <u>T T )</u><br>T T )<br>T T )<br>T T )<br>T T )<br>T T )  
  |                | T A T<br>T A T<br>T A T<br>T A T<br>T A T<br>T A T<br>T A T   | C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   | IGT<br>IGT<br>IGT<br>IGT<br>IGT<br>IGT                             | G G G<br>G G G G<br>G G G G<br>G G G G G G G<br>G G G G G G<br>G G G G G G<br>G G G G G G G G<br>G G G G G G G G G<br>G G G G G G G G G G<br>G G G G G G G G G<br>G   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | TAJ<br>260<br>TAJ<br>TAJ<br>TAJ<br>TAJ  
   | AGA<br>GA<br>GA<br>GA<br>GA<br>AGA<br>AGA   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A                      | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  | ATG<br>270<br>ATG<br>ATG<br>ATG<br>ATG<br>ATG<br>ATG<br>ATG  | AT<br>AT<br>AT<br>AT<br>AT<br>AT                                   | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  | T A A<br>T A A<br>T A A<br>T A A<br>T A A<br>T A A<br>T A A   | AT<br>280<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  
  | Majority<br>)<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1   |
| 209<br>209<br>210<br>208<br>208<br>210<br>209   | <u>T G T A G A T T T T T</u><br>220<br>T G T A G A T T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T   | A T G T (<br>A T G T (   | C T G<br>C T G  | <u>G G T</u><br>230<br>6 G T<br>6 G T   
   |   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G   
  | <u>AGC</u><br>AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC  | <u>C T</u><br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   | T T ]<br>T T ]<br>T T ]<br>T T ]<br>T T ]<br>T T ]   
  |                | T A T<br>T A T<br>T A T<br>T A T<br>T A T<br>T A T<br>T A T   | C T<br>250<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   | IGT<br>IGT<br>IGT<br>IGT<br>IGT<br>IGT                             | G G G<br>G G G G G G G G<br>G G G G G G G G G G<br>G   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G   | TAI<br>260<br>TAI<br>TAI<br>TAI<br>TAI<br>TAI<br>TAI   
  | AGA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A               | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT                                    | A T G<br>270<br>A T G<br>A T G<br>A T G<br>A T G<br>A T G<br>A T G<br>A T G  | AT<br>AT<br>AT<br>AT<br>AT<br>AT                                   | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  | TAA<br>TAA<br>TAA<br>TAA<br>TAA<br>TAA<br>TAA   | A T<br>280<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  
   | Majority<br>)<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-2<br>PT102CD197017  |
| 209<br>209<br>210<br>208<br>208<br>210<br>209<br>206<br>208   | <u>T G T A G A T T T T T</u><br>220<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T   | A T G T (<br>A T G T )<br>A T G T (<br>A T G T )<br>A T G T )  | C T G<br>C T G  | <u>G G T</u><br>230<br>6 & T<br>6 & T   
  |   | I A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G   
   | <u>A G C</u><br>A G C<br>A G C  | <u>C</u> T<br>240<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   | T T ]<br>T T ]  
   |                | <u>T A T</u><br>T A T<br>T A T   | C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   | IGT<br>IGT<br>IGT<br>IGT<br>IGT<br>IGT<br>IGT<br>IGT               | GGGG<br>GGGG<br>GGGG<br>GGGG<br>GGG<br>GGG<br>GGG<br>GGG<br>GG  | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | TAJ<br>260<br>TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ  
   | AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T              | A T G<br>270<br>A T G<br>A T G   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  | T A A<br>T A A  | AT<br>280<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  
  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-2<br>SP10291.CDS17.II<br>2737.CDS17.II  |
| 209<br>209<br>210<br>208<br>210<br>209<br>206<br>208<br>210<br>208  | <u>T G T A G A T T T T T</u><br>220<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T  | A T G T (<br>A T G T )<br>A T G T )  | C T G<br>C T G   | <u>G G T</u><br>230<br>6 G T<br>6 G T  
   |   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  
  | AGC<br>AGCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  | C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T  | <u>T T </u><br><u>T</u> T <u>J</u><br><u>T</u> T <u>T</u> T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>J</u><br><u>T</u> T T <u>T</u> T T <u>T</u> T T <u>T</u> T T <u>T</u> T T T T  
   |                | T A T<br>T A T  | C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   |  | GGG<br>GGG<br>GGG<br>GGG<br>GGG<br>GGG<br>GGG<br>GGG<br>GGG<br>GG   | A G<br>A C<br>A C<br>A C<br>A G<br>A G<br>A G<br>A G<br>A G<br>A C<br>A C<br>A C<br>A C   | T A J<br>260<br>T A J<br>T A J   
   | AGA<br>CAGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T              | A T G<br>270<br>A T C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C<br>A T C C C C C C C C C C C C C C C C C C  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  | TAA<br>TAAA<br>TAAA<br>TAAA<br>TAAA<br>TAAA<br>TAAA<br>TAAA   | A T<br>280<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T   
  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>SP10291.CDS17.II<br>9423.CDS17.II<br>9423.CDS17.II   |
| 209<br>209<br>210<br>208<br>210<br>209<br>206<br>208<br>210<br>209<br>208   | <u>T G T A G A T T T T T</u><br>220<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T  | A T G T (  | <u>C T G</u><br>C T G<br>C T G   | G G T<br>230<br>6 G T<br>G - 1<br>G - 7<br>6 G T<br>6 G T  
  |   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G   
   | A G C<br>A G C<br>A G C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T  | T T ]<br>T T ]<br>T T ]<br>T T ]  
   |                | T A T<br>T A T   | C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   | IGT<br>IGT<br>IGT<br>IGT<br>IGT<br>IGT<br>IGT<br>IGT<br>IGT<br>IGT | G G G G<br>G G G G G G<br>G G G G G G<br>G G G G G G<br>G G G G G G<br>G G G G G G<br>G G G G G G<br>G    | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | TAI<br>260<br>TAI<br>TAI<br>TAI<br>TAI<br>TAI<br>TAI<br>TAI<br>TAI<br>TAI<br>TAI  
   | AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA  | A A A A A A A A A A A A A A A A A A A                              | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT                  | A T G<br>270<br>A T G<br>A | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | T A A<br>T A A  | A T<br>280<br>A T<br>T<br>A A T<br>T<br>A A T<br>T<br>T<br>A A T<br>T<br>T<br>T<br>T<br>T  
  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-<br>16753.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>SP10291.CDS17.II<br>9423.CDS17.II<br>9423.CDS17.II<br>2740.CDS17.II-1<br>2740.CDS17.II-2  |
| 209<br>209<br>210<br>208<br>210<br>209<br>206<br>208<br>210<br>209<br>208<br>209<br>208<br>209<br>210   | <u>T G T A G A T T T T T</u><br>220<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T  | A T G T (<br>A T G T (   | C T G<br>C C T G<br>C T | <u>G G T</u><br>230<br>6 8 T<br>6 9 T<br>6 9 T<br>6 9 T<br>6 9 T<br>6 9 T<br>6 8 T<br>6 8 T<br>6 8 T<br>6 9 T<br>6 9 T<br>6 9 T<br>6 9 T<br>6 9 T<br>7 9 7<br>7 9 7 7 9 7<br>7 9 7 7 9 7<br>7 9 7 7 9 7 7 9 7 7 9 7           |   |  | A G C<br>A G C C C C C C C C C C C C C C C C C C  | C I<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   |   |                | T A T<br>A T<br>TTTTTTTTTTTTTT<br>TTTTTTTTTTTTTT  | C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T   |  |   | A G<br>A C<br>C<br>A C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | T A J<br>260<br>T A J<br>T J<br>A J<br>A J<br>A J<br>A J<br>A J<br>A J<br>A J<br>A J   |   | A A<br>A A A A A A A A A A A A A A A A A A                         | A T<br>A T T T T T T T T T T T T T T T T T                                      | A T G<br>270<br>A T C G<br>A T C C C C C C C C C C C C C C C C C C   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | A T<br>A T<br>A A T  | T A A A A A A A A A A A A A A A A A A A   | AT<br>280<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-2<br>SP10291.CDS17.II<br>9423.CDS17.II<br>9423.CDS17.II<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>0936VA.CDS17.II<br>10936VA.CDS17.II   |
| 209<br>209<br>210<br>208<br>210<br>209<br>206<br>209<br>206<br>209<br>209<br>209<br>209<br>210  | <u>T G T A G A T T T T</u><br>220<br><u>7 G T A G A T T T T</u><br>1 G T A G A T T T T<br>1 G T A G A T T T T<br>1 G T A G A T T T T<br>1 G T A G A T T T T<br>1 G T A G A T T T T<br>1 G T A G A T T T T<br>1 G T A G A T T T T<br>1 G T A G A T T T T<br>1 G T A G A T T T T<br>1 G T A G A T T T T<br>1 G T A G A T T T T<br>1 G T A G A T T T T<br>1 G T A G A T T T T<br>1 G T A G A T T T T   |  |   | <u>G G T</u><br>230<br><u>G G T</u><br><u>G T T</u>   
   |   |   
  | A G C<br>A G C C C C C C C C C C C C C C C C C C  | C T<br>240<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T  |  
  |                | T A T<br>T A T<br>T A T<br>T A T<br>T T A T<br>T T T A T<br>T T T T   | CT<br>250<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT  |  |   |   | T A J<br>260<br>T A J<br>T A J  
  |   | A A A A A A A A A A A A A A A A A A A                              | AT<br>ATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT                                       | A T G<br>270<br>A T C G<br>A T C G<br>A T C G<br>A T C G<br>A A A A A A A A A A A A A A A A A A A  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>A   | T A A<br>T A A A<br>T A A A A<br>T A A A A<br>T A A A A   | AT<br>280<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT   
   | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>SP10291.CDS17.II<br>9423.CDS17.II<br>9423.CDS17.II<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>Najority  |
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Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>143527A.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II<br>2740.CDS17.II<br>2740.CDS17.II<br>2740.CDS17.II<br>2740.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II<br>14573.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>1275.CDS17.II<br>1275.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II<br>14753.CDS17.II |
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  |   | I A G           I T A           I T A           I T A           I T A           I T A           I T A           I T A           I T A           I T A           I T A  
   | A         G         C           Q         Q         Q         Q           Q         Q         Q   | СТ<br>240<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ   | T T J<br>T T J<br>T T T J<br>T T T J<br>T T T T J<br>T T T T  
   |                | T A T TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  | <u>СТ</u><br>250<br>СТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ  |  | G         G | A G<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C   | T A J<br>260<br>T T A A J<br>T T T T T A A J<br>T T T T T T A A J<br>T T T T T T T T T T T T T T T T T T T   
  |   | AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA                             | AT<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA                                       | A T 7<br>270 C C C C C C C C C C C C C C C C C C C   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | A         T |   | A T<br>280<br>A A A A A A A A A A A A A A A A A A A   
   | Majority<br>[12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II<br>727J.CDS17.II<br>727J.CDS17.II<br>7240.CDS17.II-1<br>7447VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>SPI0291.CDS17.II-1<br>19791.CDS17.II-2<br>SPI0291.CDS17.II-1<br>SPI0291.CDS17.II-1<br>1972J.CDS17.II-1<br>1727J.CDS17.II-1  |
| 209<br>209<br>210<br>208<br>210<br>208<br>210<br>208<br>209<br>209<br>209<br>210<br>210<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279   | <u>I G I A G A T T I I T</u><br>220<br><u>221</u><br><u>222</u><br><u>224</u><br><u>224</u><br><u>225</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>226</u><br><u>266</u><br><u>266</u><br><u>266</u><br><u>266</u><br><u>266</u><br><u>266</u><br><u>266</u><br><u>266</u><br><u>266</u><br><u>266</u><br><u>266</u><br><u>266</u><br><u>266</u><br><u>266</u><br><u>266</u><br><u>266</u> |  |   | G G I           230           S G T           S G T           G G T           G G T           G G T           G G
T           G G T           G T           G T           G T           G T            G T<   |   | I A G            
   | A         G         C           A         A         A         A           A         A         C         C         C           C         C         C         C         C         A           A         A         C                         | СТ<br>240<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ<br>СТ   | T T J<br>T T T J<br>T T J J<br>T T T J<br>T T T J<br>T T T J<br>T T T J<br>T T T J<br>T T T J<br>T T T J<br>T T T J<br>T T T J<br>T T T J<br>T T T J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J T T J J T T J J T T T
J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J T T J T T J T T T J T T T J T T T J T T T J T T T J T T T J T T T J T T T J T T T J T T T J T T T J T T T J T T T J T T T J T T T J T T T J T T T J T T T J T T T T J T T T T J T T T T J T T T T J T T T T J T T T T J T T T T T J T  |                | T A T TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  | <u>СТ</u><br>250<br>СТТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>Т<br>ССТ<br>С<br>ССТ<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С  |  | G         G | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | <u>T</u> A J<br>360<br><b>T</b> T A J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C J<br><b>T</b> T C |  
  | A A A A A A A A A A A A A A A A A A A                              | A T<br>A A A A A A A A A A A A A A A A A A                                      | <u>A T</u><br>270<br>270<br>555<br>756<br>757<br>757<br>757<br>757<br>757<br>757   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | A         T |   | A T<br>280<br>287<br>287<br>287<br>287<br>287<br>287<br>287<br>287<br>287<br>287  
   | Majority<br>[2256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>740.CDS17.II-1<br>740.CDS17.II-1<br>740.CDS17.II-1<br>2246U.CDS17.II-1<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>SP10291.CDS17.II-1<br>19791.CDS17.II-2<br>SP10291.CDS17.II-1<br>19731.CDS17.II-1<br>19731.CDS17.II-1<br>19731.CDS17.II-1<br>19731.CDS17.II-1<br>19731.CDS17.II-1<br>19731.CDS17.II-1<br>19731.CDS17.II-1<br>19731.CDS17.II-1<br>19731.CDS17.II-1<br>19731.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>19741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.II-1<br>10741.CDS17.I                           |
| 209<br>209<br>200<br>208<br>210<br>208<br>210<br>208<br>209<br>208<br>209<br>209<br>279<br>279<br>279<br>279<br>279<br>279<br>278<br>277<br>279<br>278<br>279<br>278<br>279<br>279<br>278<br>279<br>279<br>278<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279  | T G T A G A T T T T<br>220<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T T<br>T G T A G A T T T T T T T T T T T T T T   |  |   | G G I           230           S G T           S G T           G G T           G G T           G G T           G G
T           G G T           T T           T T           T T           T T           T T           T T           T T           T T           T T           T T           T T   | T T T<br>T T T T T<br>T T T T<br>T T T T<br>T T T T<br>T T T T T<br>T T T T T<br>T T T T<br>T T T T T<br>T T T T<br>T T T T<br>T T T T T T<br>T    | I A G           I A G           I A G           I A G           I A G           I A G           I A G           I A G           I A G           I A G           I A G           I A G           I A G           I A G           I A G           I A G           I T A   
  | A         G         C           A | CTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | T T J<br>T T J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J<br>T T T J J J<br>T T T J J J<br>T T T J J J T T T J J J T T T J J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T J J T T T T J J T T T T J J T T T T J J T T T T J J T T T T J J T T T T J J T T T T J J T T T T J J T T T T J T T T T J J T T T T J T T T T T T J J T T T T T T J J T  
  |                | T TTTTTTTTTTTTTT A AAAAAAAAAAAAAAAAAAA  | <u>СІ</u><br>250<br>СССТТТТТТТ<br>СССТТТТТТТ<br>320<br>ТА<br>320<br>ТТА<br>320<br>ТТА<br>320<br>ТТА<br>320<br>ТТА<br>320   |  | G         G         G         G           0         | A G<br>A G G G G G G G G G G G G G G G G G  | <u>T A J</u><br>250<br><u>T A J</u><br>T A J<br>T A J  |   | A A A A A A A A A A A A A A A A A A A                              | A T<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA                                      | A 1 27 1 7 27 1 7 7 7 7 7 7 7 7 7 7 7 7 7   
  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | A T<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | T A A<br>TIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | A I<br>280<br>A A A A A A A A A A A A A A A A A A A   |
Majority<br>[2256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2256U.CDS17.II-2<br>12256U.CDS17.II-1<br>16753.CDS17.II-2<br>1452VA.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19701.CDS17.II-1<br>2717.CDS17.II-1<br>2717.CDS17.II-1<br>2717.CDS17.II-1<br>2717.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-2   |
| 209<br>209<br>210<br>208<br>210<br>208<br>210<br>208<br>209<br>208<br>209<br>209<br>210<br>210<br>279<br>279<br>277<br>279<br>278<br>279<br>279<br>278<br>279<br>279<br>278<br>279<br>278<br>279<br>278<br>279<br>278<br>279<br>278<br>279<br>278<br>279<br>278<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279 | <u>T G T A G A T T T T</u><br>220<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T T<br>T G T A G A T T T T T<br>T G T A G A T T T T T T T T T T T T T T  |  |   | G G T           230           G G T           G G T           G G T           G G T           G G T           G G
T           G G T           G G T           G G T           G G T           G G T           G G T           G G T           G G T           G G T           T T   | T T T<br>T T T T T T<br>T T T T T T T<br>T T T T T T T T<br>T   | A         G            
   | A         G         C           A | CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT  |   
   |                | T T T T T T T T T T T T T T T T T T T   | <u>СІ</u><br>250<br>СССТТТТТТА<br>200<br>ТТАА<br>320<br>ТТАА<br>ТТАА<br>ТТАА<br>ТТАА<br>ТТАА<br>ТТАА   |  | G         G | A G<br>A G G<br>A G G<br>A A A A | T A ;<br>260<br>T A ;<br>T T T T A ;<br>T T T T T T T T T T T T T T T T T T T   
                    |   | A A A A A A A A A A A A A A A A A A A                              | A T<br>A A A A A A A A A A A A A A A A A A A                                    | A 7<br>27<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>17<br>1   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | A T<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  |   | A I<br>280<br>A A A A A A A A A A A A A A A A A A A   
   | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-1<br>19791.CDS17.II-2<br>SP10291.CDS17.II<br>2740.CDS17.II-2<br>7447VA.CDS17.II-2<br>7447VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>14352VA.CDS17.II-1<br>19791.CDS17.II-2<br>14352VA.CDS17.II-1<br>19740.CDS17.II-2<br>7440.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-2<br>147VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1  |
| 209<br>210<br>208<br>208<br>209<br>208<br>209<br>208<br>209<br>210<br>219<br>279<br>279<br>279<br>277<br>280<br>279<br>279<br>279<br>279<br>279<br>279<br>279   | <u>T G T A G A T T T T</u><br>220<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T A T T<br>C A A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A T A A<br>C A A A A A A A A T A A<br>C A A A A A A A A T A A<br>C A A A A A A A A T A A<br>C A A A A A A A A T A A<br>C A A A A A A A A A T A A<br>C A A A A A A A A A T A A<br>C A A A A A A A A A A A A A A<br>C A A A A A A A A A A A A A A<br>C A A A A A A A A A A A A A A A A A A A  |  |   | G G T           230           G G T           G G T           G G T           G G T           G G T           G G
T           G G T           G G T           G G T           G G T           G G T           G G T           G G T           G G T           G G T           T T           T T           T T           T T           T T           T T           T T           T T           T T           T T           T T           T T           T T           T T           T T           T T           T T           T T           T T   |   | A         G            
   | A G C<br>G C C C C C C C C C C C C C C C C C C C  | CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT  |   
   |                | T A T TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  | CT<br>CTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  |  | G         G | A G<br>A G G A<br>A G G A<br>A A G G A A A G G A<br>A A A A   | T A ;<br>260<br>T A ;<br>T T A ;<br>T A ;   |  
  | A A A A A A A A A A A A A A A A A A A                              | A T<br>A A A A A A A A A A A A A A A A A A                                      | A TO CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | A T<br>TITIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII   | T A A   | A T 280<br>A A A A A A A A A A A A A A A A A A A  
   | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>7404.CDS17.II-2<br>744VVA.CDS17.II-2<br>744VVA.CDS17.II-1<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-2<br>14352VA.CDS17.II-1<br>19791.CDS17.II-2<br>14352VA.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19701.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10   |
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<td>Majority<br/>12256U.CDS17.II-1<br/>12256U.CDS17.II-2<br/>14352VA.CDS17.II-2<br/>14352VA.CDS17.II-1<br/>16753.CDS17.II-1<br/>19791.CDS17.II-1<br/>19791.CDS17.II-2<br/>SP10291.CDS17.II<br/>2740.CDS17.II-2<br/>744VVA.CDS17.II-2<br/>744VVA.CDS17.II-1<br/>10936VA.CDS17.II-1<br/>12256U.CDS17.II-2<br/>14352VA.CDS17.II-2<br/>14352VA.CDS17.II-2<br/>14352VA.CDS17.II-2<br/>14352VA.CDS17.II-2<br/>19791.CDS17.II-2<br/>19791.CDS17.II-2<br/>19791.CDS17.II-1<br/>19791.CDS17.II-2<br/>19791.CDS17.II-2<br/>19791.CDS17.II-2<br/>19791.CDS17.II-2<br/>19791.CDS17.II-1<br/>19791.CDS17.II-1<br/>2740.CDS17.II-2<br/>19791.CDS17.II-1<br/>2740.CDS17.II-1<br/>2740.CDS17.II-1<br/>2740.CDS17.II-1<br/>2740.CDS17.II-1<br/>2740.CDS17.II-1<br/>2740.CDS17.II-1<br/>Majority</td>  | A G C<br>名 C C C C C C C C C C C C C C C C C C C  | CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT<br>CTT  | T T J<br>T T J J<br>T T J J<br>T T J J<br>T T J J<br>T T J J<br>T T J J<br>T T J J<br>T T J J<br>T T J J<br>T T J 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Т<br>250<br>СТТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>ССТ<br>СС   |  | G         G | A G<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C   | T A 3<br>200<br>T A 3<br>T A   |   | A A A A A A A A A A A A A A A A A A A                              | A T<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA                                      | A T G<br>2770<br>X X X X X X X X X X X X X X X X X X X   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | A T<br>TITITITITITI<br>TITITITITI<br>TITITITI<br>AAAAAAAA   | T A A<br>TITTIAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | A T<br>280<br>A Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z   | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-2<br>SP10291.CDS17.II<br>2740.CDS17.II-2<br>744VVA.CDS17.II-2<br>744VVA.CDS17.II-1<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>2740.CDS17.II-2<br>19791.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>Majority  |
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T J T J J T J T J J T J J T J J T J J T J J T J J T J J T J J T J J T J J T J J T J J T J J T J J T J T J  |                | T A T TITITITITITITITIA A AAAAAAAAAAAAA   | CT<br>250<br>CC<br>CC<br>CC<br>CC<br>CC<br>CC<br>CC<br>CC<br>CC<br>C   |  | G         G | A G<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C   | T A 3<br>260<br>T A 1<br>T A 3<br>T T A 3  |   
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  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>7404.CDS17.II-2<br>744.VVA.CDS17.II-1<br>2740.CDS17.II-2<br>744.VVA.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-2<br>14352VA.CDS17.II-1<br>19791.CDS17.II-2<br>144.VVA.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19740.CDS17.II-1<br>19740.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>122                                     |
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<td>Majority<br/>12256U.CDS17.II-1<br/>12256U.CDS17.II-2<br/>14352W.CDS17.II-1<br/>16753.CDS17.II-1<br/>16753.CDS17.II-1<br/>19791.CDS17.II-2<br/>19791.CDS17.II-2<br/>19791.CDS17.II<br/>2740.CDS17.II-2<br/>7447VA.CDS17.II-1<br/>2740.CDS17.II-2<br/>7447VA.CDS17.II-1<br/>12256U.CDS17.II-1<br/>12256U.CDS17.II-1<br/>12256U.CDS17.II-1<br/>14352WA.CDS17.II-1<br/>16753.CDS17.II-1<br/>16753.CDS17.II-1<br/>19791.CDS17.II-1<br/>19791.CDS17.II-1<br/>19791.CDS17.II-1<br/>19791.CDS17.II-1<br/>19791.CDS17.II-1<br/>19791.CDS17.II-1<br/>19791.CDS17.II-1<br/>19742.CDS17.II-1<br/>19742.CDS17.II-1<br/>19742.CDS17.II-1<br/>197447VA.CDS17.II-1<br/>2740.CDS17.II-1<br/>10936VA.CDS17.II-1<br/>10936VA.CDS17.II-1<br/>10936VA.CDS17.II-1<br/>12256U.CDS17.II-1<br/>12256U.CDS17.II-1<br/>12256U.CDS17.II-1<br/>12256U.CDS17.II-1<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-1<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>12256U.CDS17.II-2<br/>122</td> | <u>A G C CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC</u>  | CTT<br>CTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTTT<br>CCTTTT<br>CCTTTT<br>CCTTTTT<br>CCTTTTT<br>CCTTTTT<br>CCTTTTT<br>CCTTTTT<br>CCTTTTT<br>CCTTTTT<br>CCTTTTT<br>CCTTTTT<br>CCTTTTTT  | T T T T T T T T T T T T T T T T T T T   |                | T T T T T T T T T T T T T T T T T T T   | CT<br>250<br>CTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT   |  | G         G | A G<br>A C C C A A A C C C A A A C C A A A C C C A A A C 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Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352W.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II<br>2740.CDS17.II-2<br>7447VA.CDS17.II-1<br>2740.CDS17.II-2<br>7447VA.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>14352WA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19742.CDS17.II-1<br>19742.CDS17.II-1<br>19742.CDS17.II-1<br>197447VA.CDS17.II-1<br>2740.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>122                                   |
| 209<br>208<br>208<br>208<br>209<br>209<br>209<br>209<br>210<br>209<br>210<br>219<br>279<br>279<br>279<br>279<br>278<br>279<br>278<br>279<br>278<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>348<br>349<br>348   | I G I A G A T T T T         220         I G T A G A T T T         I G T A G A T A A T A A T A A         I G A A A A A A A A A T A A         I A A A A A A A A A A A A A A A A A A A   |  |   | G         G         T           230         G         G         T           G         G         T         T       
 G           G         G         T         T         G         G         T           G         G         T         T         T         G         G         T         T         T         G         G         T         T         T         G         G         G         T         T         T         T         G   |   |   
  | A         G         C           A         A AAAAAAAAAAAAAAAAA         C         C           C         CCCCCCCCCCCCCC         A         AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | C T<br>240<br>C C C C C C C C C C C C C C C C C C C   | T T T T T T T T T T T T T T T T T T T  
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   |   | A A A A A A A A A A A A A A A A A A A                              | A T<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA                                      | A 2 AXAAAAAAXXXXAAAAA A AAAAAXXXXAAAAAAAA  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | A T<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | T A A A A A A A A A A A A A A A A A A A   | A T<br>280 TTTTTTTTTTTTTTT<br>A A A A A A A A A A A A  
  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>143527A.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II<br>2740.CDS17.II<br>2740.CDS17.II<br>2740.CDS17.II-2<br>7447VA CDS17.II-1<br>2740.CDS17.II-1<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>14552VA.CDS17.II-1<br>19791.CDS17.II<br>19791.CDS17.II<br>19791.CDS17.II<br>19791.CDS17.II<br>19791.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12740.CDS17.II<br>12256U.CDS17.II<br>12256U.CDS17.II<br>12256U.CDS17.II<br>12256U.CDS17.II-2<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS1                             |
| 209<br>209<br>208<br>208<br>208<br>210<br>209<br>210<br>210<br>210<br>219<br>219<br>219<br>219<br>219<br>219<br>279<br>278<br>279<br>278<br>279<br>278<br>279<br>279<br>279<br>279<br>279<br>279<br>349<br>349<br>348<br>348<br>348<br>348  | I G I A G A T T T T         220         I G T A G A T T T         I G T A G A T A T T         I G T A G A T A T T T         I G T A G A T A T T T         I G A A T A A T T T T         G A A T A A T T T T         G A A T A T T T T         G A A T A T T T T         G A A T A T T T T         G A A T A T T T T         G A A T A T T T T         G A A T A T T T T         G A A T A T T T T         G A A T A T T T T         G A A T A T T T T         G A T A T T T T   |  |   | G         G         T           230         G         A           G         A         T           G         C     
   T           G         C         T           G         C         T           G         C         T           G         C         T           G         C         T           G         C         T           G         C         T           G         C         T           G         C         T           T         T         T           T         T         T           T         T         T           T         T         T           T         T         T           T         T         T           T         T         T           T         T         T           T         T         T           T         T         T           T         T         T           T         T         T           T         T         T           T         A         A   |   |   
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   |   | A A A A A A A A A A A A A A A A A A A                              | A T<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA                                      | A 170 CSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSG  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | A T<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | T A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | A T<br>280 TTTTTTTTTTTTTT<br>A A A A A A A A A A A A   
  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>740.CDS17.II-2<br>740.CDS17.II-2<br>740.CDS17.II-2<br>7447VA.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19740.CDS17.II-1<br>19740.CDS17.II-1<br>1936VA.CDS17.II-1<br>1936VA.CDS17.II-1<br>1936VA.CDS17.II-1<br>1936VA.CDS17.II-1<br>10336VA.CDS17.II-1<br>10336VA.CDS17.II-1<br>10336VA.CDS17.II-1<br>10336VA.CDS17.II-1<br>10336VA.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>19730.CDS17.II-2<br>14352VA.CDS17.II-1<br>19730.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2   |
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   C G T         C G T           C G T         C G T           C G T         C G T           C G T         C G T           C G T         C G T           C G T         C G T           S G T         T           T T         T           T T         T           T T         T           T T         T           T T         T           T T         T           T T         T           T T         T           T T         T           T T         T           T T         T           T A A         T           370         T           T A A         T           T A A         T           T A A         T   |   |   
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  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II<br>2740.CDS17.II<br>2740.CDS17.II<br>2740.CDS17.II<br>2740.CDS17.II<br>10936VA.CDS17.II<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II<br>19791.CDS17.II<br>19791.CDS17.II<br>19791.CDS17.II<br>19791.CDS17.II<br>19791.CDS17.II<br>19791.CDS17.II<br>19791.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.                       |
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 6 a T         5 a T           6 a T         5 a T           6 a T         5 a T           6 a T         5 a T           7 a A         300           7 T T         7 T           7 T T         7 T           7 T T         7 T           7 T T         7 T           7 T T         7 T           7 T T         7 T           7 T T         7 T           7 T T         7 T           7 T T         7 T           7 T T         7 T           7 T T         7 T           7 T T         7 T           7 T T         7 T           7 T T         7 T           7 T T         7 T           7 T A A         7 A A   |   |   
  | A         G         C           A         A         A         A           A         A         C         C         C           A         C         C         C         C           A         C         C         C         A           A         C         C         C         A           A         C         C         C         C           C         C         C         A         A           A         A         A         A         A           A         C         C         C         A           A         A         A         A         A           A         A         A         A         A           A         A         A         A         A   | CTT<br>240<br>CTTTCCTT<br>CCTTTCCTT<br>CCTTTCCTT<br>CCTTTCCTT<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTTTA<br>CCTT   | T T J J T T T T T T T T T T T T T T T T  
  |                | T A T<br>TTTTTTTTTTTTTTTTA A A<br>AXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX   | <u>СТ</u><br>250<br>ССССССССССССССССССССССССССССССССССС  |  | G G G G G G G G G G G G G G G G G G G   | A G<br>C C C C C C C C C C C C C C C C C C C  | T A A A A A A A A A A A A A A A A A A A   
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  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-2<br>1740.CDS17.II-2<br>1740.CDS17.II-1<br>2740.CDS17.II-1<br>10396VA.CDS17.II-1<br>10396VA.CDS17.II-1<br>12256U.CDS17.II-1<br>16753.CDS17.II-2<br>14352VA.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19703.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>16753.CDS17.II-2<br>12256U.CDS17.II-1<br>19791.CDS17.II-2<br>12256U.CDS17.II-1<br>19791.CDS17.II-2<br>12256U.CDS17.II-2<br>12256U.CDS17.II-1<br>10753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1   |
| 209<br>209<br>200<br>208<br>200<br>208<br>200<br>210<br>209<br>210<br>279<br>279<br>279<br>279<br>278<br>277<br>280<br>279<br>277<br>280<br>277<br>280<br>279<br>277<br>280<br>279<br>279<br>276<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279  | $ \begin{array}{c} 1 & \text{G} \mbox{ T} \mbox{ A} \mbox{ A} \mbox{ A} \mbox{ T} \mbox{ A} \mbox{ T}   |  |   | G G T<br>230<br>5 G T<br>5 T<br>5 T<br>7 T<br>7 T<br>7 T<br>7 T<br>7 T<br>7 T<br>7 T<br>7   
  | T T T T<br>T                         | I         A         G           I         A         G         A           I         A         G         A         G           I         A         G         A         G           I         A         G         A         G           I         A         G         A         G           I         A         G         A         G           I         T         A         G         A           I         T         A         G         A           I         T         A         G         A           I         T         A         G         A           I         T         A         G         A           I         T         A         G         A           I         T         T         G         G           I         T         T         T         G         G           I         T         T         T         G         G           I         T         T         T         G         G   
  | A GCCCCCCCCC A AAAAAAAAAAAAAAAAAAAAAAAA   | CCTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | T T J J T T T T T T T T T T T T T T T T   |                | T A T<br>A TTITTTTTTTTTA A A A A A A A A A A A A  | <u>СТ</u><br>250<br>ССТТІТТТТА<br>200<br>ТТАААХХАТТТААА<br>31<br>ТТАААХХАТТТААА<br>390<br>АЗ90<br>АЗ90<br>АЗ90<br>АЗ90  
  |  | G         G | A G A A A A A A A A A A A A A A A A A A   |   |   | A A A A A A A A A A A A A A A A A A A   
                          | AT<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA                                       | A 170 SCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | A T<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | T A A TALAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | A 200 TITTTTTTTTTTTTT<br>A 350 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II<br>2740.CDS17.II-2<br>7447VA CDS17.II-2<br>7447VA CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>12256U.CDS17.II-1<br>14352VA.CDS17.II-1<br>16753.CDS17.II-2<br>14352VA.CDS17.II-1<br>19791.CDS17.II-2<br>14352VA.CDS17.II-1<br>19791.CDS17.II-2<br>14352VA.CDS17.II-1<br>19791.CDS17.II-2<br>14352VA.CDS17.II-1<br>19791.CDS17.II-2<br>14352VA.CDS17.II-1<br>19791.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>12356U.CDS17.II-2<br>14352VA.CDS17.II-1<br>12356U.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS17.II-2<br>14452VA.CDS   |
| 209<br>209<br>200<br>208<br>208<br>209<br>210<br>209<br>210<br>209<br>210<br>219<br>279<br>279<br>279<br>278<br>277<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279<br>279  | T G T A G A T T T T<br>220<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G T A G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T<br>T G A T A T T T T<br>T G A T A T T T T<br>T G A T A T T T T<br>T G A T A T T T T<br>T G A T A T T T T<br>T G A T A T T T T<br>T G A T A T T T T<br>T G A T A T T T T<br>T G A T A T T T T<br>T G A T A T T T T<br>T G A T A T T T T<br>T G A T A T T T T T<br>T G A T A T T T T T<br>T G A T A T T T T T<br>T G A T A T T T T T<br>T G A T A T T T T T<br>T G A T A T T T T T T T T T T T T T T T  |  |   | G         G         T           230         G         G         T           S         G         T         G       
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   |                | T A T<br>A TTTTTTTTTTTTTT A A AAAAAAAAAAAA  | CI<br>CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  |  | G G G G G G G G G G G G G G G G G G G   | G A A A A A A A A A A A A A A A A A A A   | I         A           I         A           I         I           I         T  
  |   | A A A A A A A A A A A A A A A A A A A                              | AT<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA                                       | A 170 COCCESSION A 100 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T | A T<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | T A A A A A A A A A A A A A A A A A A A   | A 200<br>AXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX   
   | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-2<br>7400.CDS17.II-2<br>744VVA CDS17.II-2<br>744VVA CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>147VVA CDS17.II-1<br>19791.CDS17.II-2<br>147VVA CDS17.II-1<br>19791.CDS17.II-2<br>744VVA CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>14352VA.CDS17.II-2<br>1770.CDS17.II-2<br>1770.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2<br>1771.CDS17.II-2                        |

## Tabelle 15: Sequenzalignment der CDS17.II-Gene in ICEHo-II-positiven M. hominis-Isolaten.

	GAGCAAGA	TAGAGAA	GCGGAGTTTTT	GAGATTTAC	AAATCTCTT	AAATTCTGTTG	ATGATAAAATAACT	A Majority
419 418 418 417 420 419 413 419 419 419 419 419 418 419 418 419 418	G A G C A A G A           T T A T T A A A           T T A T T A A A	T A G A G A A A 430 T A G A G A A G A A TA G A G A A A A A A	G C G G A G T T T T T           440           G C G G A G T T T T C           G C G G A G T T T T C           G C G G A G T T T T C           G C G G A G T T T T C           G C G G A G T T T T C           G C G G A G T T T T C           G C G G A G T T T T C           G C G G A G T T T T C           G C G G A G T T T T C           G C G G A G T T T T T           G C G G A G T T T T T           G C G G A G T T T T T           G C G G A G T T T T T           G C G G A G T T T T T           G C G G A G T T T T T           G C G G A G T T T T T           G C G G A G T T T T T           G C G G A G T T T T T           G C G G A G T T T T T           G C G G A G T T T T T           G C G G A G T T T T T           G C G G A G T T T T T T           G C G G A G T T T T T T           G C G G A G T T G G A T           S C G G A G T T G G A T           S C G G A G T T G G A T           G C G G A G T G G A T           S C G G G G A A T G G A T	G A G A T T T A C           450           G A G A T T T A C           G A G A G A G A T T T A C <td>A A A T C T C T T           460           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T T T A A T           A A T A T T A A T           S 30           A T A T T A A T</td> <td><u>A A A T T C T G T T G</u> <u>470</u> <u>A A T T C T G T T G</u> <u>A A T T C G T T G</u> <u>A A T T C G T T G</u> <u>A A T T C G T T G</u> <u>A A T T C G T G T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G T T G</u> <u>A A T T C T G T T G T T G</u> <u>540</u> <u>G A A A T T G A T A A</u></td> <td>A T G A T A A A A T A A C T 480 A T G A T A A A A T A A C T 480 A T G A T A A A A T A A C C A T G A T A A A A A T A A C C A T G A T A A A A T A A C T A T G A T A A A A T A A C T A T G A T A A A A T A A C C A T G A T A A A A T A A C T</td> <td>A Majority 490 491 12256U.CDS17.II-1 12256U.CDS17.II-2 14352VA.CDS17.II-2 16753.CDS17.II-1 19791.CDS17.II-2 19791.CDS17.II-2 4270.CDS17.II 2740.CDS17.II-2 1447VA.CDS17.II-2 149794.CDS17.II-2 149704.CDS17.II-2</td>	A A A T C T C T T           460           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T C T T T           A A T C T T T A A T           A A T A T T A A T           S 30           A T A T T A A T	<u>A A A T T C T G T T G</u> <u>470</u> <u>A A T T C T G T T G</u> <u>A A T T C G T T G</u> <u>A A T T C G T T G</u> <u>A A T T C G T T G</u> <u>A A T T C G T G T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G</u> <u>A A T T C T G T T G T T G</u> <u>A A T T C T G T T G T T G</u> <u>540</u> <u>G A A A T T G A T A A</u>	A T G A T A A A A T A A C T 480 A T G A T A A A A T A A C T 480 A T G A T A A A A T A A C C A T G A T A A A A A T A A C C A T G A T A A A A T A A C T A T G A T A A A A T A A C T A T G A T A A A A T A A C C A T G A T A A A A T A A C T	A Majority 490 491 12256U.CDS17.II-1 12256U.CDS17.II-2 14352VA.CDS17.II-2 16753.CDS17.II-1 19791.CDS17.II-2 19791.CDS17.II-2 4270.CDS17.II 2740.CDS17.II-2 1447VA.CDS17.II-2 149794.CDS17.II-2 149704.CDS17.II-2
489 486 487 490 489 482 489 489 489 488 489 488 489 487								143524.CDS17.11-2 143524.CDS17.11-2 14753.CDS17.11-2 16753.CDS17.11-2 19791.CDS17.11-2 19791.CDS17.11-2 19791.CDS17.11-2 19791.CDS17.11 9422.CDS17.11 2740.CDS17.11-1 2740.CDS17.11-1 2740.CDS17.11-2 109367A.CDS17.11 2 109367A.CDS17.11
559 556 556 557 559 551 559 559 559 558 559 558 559 557	$\begin{array}{c} T \ T \ T \ T \ A \ T \ T \ C \\ T \ T \ T \ T \ A \ T \ T \ C \\ T \ T \ T \ A \ T \ C \ C \\ T \ T \ T \ A \ T \ C \ C \\ T \ T \ T \ A \ T \ C \ C \ T \ C \ T \ C \ T \ C \ T \ C \ T \ C \ T \ C \ T \ C \ T \ T$							230           12256U.CDS17.II-1           12256U.CDS17.II-2           14352VA.CDS17.II-1           16753.CDS17.II-1           19791.CDS17.II-1           19791.CDS17.II-1           2707.CDS17.II           14322VA.CDS17.II           1791.CDS17.II-1           270.CDS17.II           14322VA.CDS17.II           1794.CDS17.II           240.CDS17.II-2           2740.CDS17.II           2740.CDS17.II           2740.CDS17.II-1           2740.CDS17.II           2194.CDS17.II           2194.CDS17.II           2194.CDS17.II           2194.CDS17.II           2194.CDS17.II           2194.CDS17.II
	GAAAAAGA	TAGCATT	GATAATTATTA	TTTAGTTAT	TTATGGAAA	ттстаттдаад	атттаатссстааа	A Majority
629 626 626 627 630 629 621 627 629 629 628 629 628 629 627		$\begin{array}{c} 640 \\ T & A & A & T \\ T & A & C & A & T \\ T & A & C & A & T \\ T & A & C & A & T \\ T & A & C & A & T \\ T & A & C & A & T \\ T & A & C & A & T \\ T & A & C & A & T \\ T & A & C & A & T \\ T & A & C & A & T \\ T & A & C & A & T \\ T & A & C & A & T \\ C & A & C & A & T \\ T & A & C & A & T \\ T & A & C & A & T \\ T & A & C & A & T \\ C & A & C & A & T \\ T & A & C & A & T \\ C & A & C & A & T \\ T & A & C & A & T \\ C & A & C & A & C \\ C & A & C & A & C \\ C & A & C & A & C \\ C & A & C & A & C \\ C & A & C & A & C \\ C & A & C & A & C \\ C & A & C & A & C \\ C & A & C & A & C \\ C & A & C & A & C \\ C & A & C & A & C \\ C & A & C & A & C \\ C & A & C & A & C \\ C & A & C & A & C \\ C & A & C & C & A \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & A & C & C \\ C & C & C & C \\ C & C & C & C$				680 TIC TA TIGAA S TIC TA TIGAA S		1000           12256U.CDS17.II-1           12256U.CDS17.II-2           14352VA.CDS17.II-1           16753.CDS17.II-2           19791.CDS17.II-2           19791.CDS17.II-2           19791.CDS17.II-2           19791.CDS17.II-3           19791.CDS17.II-3           19791.CDS17.II-3           243.CDS17.II           243.CDS17.II           243.CDS17.II-3           74470.CDS17.II-1           7447VA CDS17.II-1           X           Y447VA.CDS17.II-1           X           Y447VA.CDS17.II-1           X           Y447VA.CDS17.II-1           X           Y447VA.CDS17.II-1           X           Y447VA.CDS17.II-1           X           Y447VA.CDS17.II-1           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y           Y
	ORACOROR	710	720	730	740	750	760	770
699 696 696 696 700 699 699 699 699 699 699 699 699		$ \begin{array}{c} \mathbf{x} \ \mathbf$				$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \end{array}\end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \\ \\ \end{array}\end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \\ \end{array}\end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} $		12256U.CDS17.II-1           12256U.CDS17.II-2           14352VA.CDS17.II-1           16753.CDS17.II-1           19791.CDS17.II-2           19791.CDS17.II-2           19791.CDS17.II-2           19791.CDS17.II-1           2260.CDS17.II-1           2707.CDS17.II           2720.CDS17.II           2740.CDS17.II-1           2740.CDS17.II-1           2740.CDS17.II-1           2740.CDS17.II-1           2740.CDS17.II-1           2740.CDS17.II-1           2740.CDS17.II-1           2740.CDS17.II-1           10936VA.CDS17.II-1
	AAATGTAT	<u>TAAATTT</u>	AATATTTAGAG	TGCAATTAA 800	ATGACAAAA 810	ATTTATCCAAT 820	ATTGAAAGGCCAGC	A Majority
769 766 765 766 770 769 760 769 769 769 768		T     A     A     T     T     T       T     A     A     T     T     T       T     A     A     T     T       T     A     A     T     T       T     A     A     T     T       T     A     A     T     T       T     A     A     T     T       T     A     A     T     T       T     A     A     T     T       T     A     A     T     T       T     A     A     T     T       T     A     A     T     T       T     A     A     T     T		$\begin{array}{c} T & C & C & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ T & C & C & A & A & T & T & A & A \\ \end{array}$	$\begin{array}{c} \mathbf{A} \ \mathbf{T} \ \mathbf{G} \ \mathbf{A} \ \mathbf{C} \ \mathbf{A} \ $		$ \begin{array}{c} \mathbf{A} \ \ \mathbf{T} \ \mathbf{T} \ \ \mathbf{G} \ \ \mathbf{A} \ \ \mathbf{A} \ \ \mathbf{A} \ \ \mathbf{A} \ \ \mathbf{G} \ \ \mathbf{C} \ \ \mathbf{A} \ \mathbf{G} \ \ \mathbf{G} \ \ \mathbf{C} \ \ \mathbf{A} \ \mathbf{G} \ \ \ \mathbf{G} \ \ \ \mathbf{G} \ \ \ \ \mathbf{G} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	<ul> <li>12256U.CDS17.II-1</li> <li>12256U.CDS17.II-2</li> <li>14352VA.CDS17.II-1</li> <li>16753.CDS17.II-1</li> <li>16753.CDS17.II-1</li> <li>19791.CDS17.II-1</li> <li>19791.CDS17.II-1</li> <li>39102L.CDS17.II-1</li> <li>39102L.CDS17.II-1</li> <li>29102L.CDS17.II</li> <li>2740.CDS17.II</li> <li>2740.CDS17.II-1</li> </ul>

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   | L T A  | GC   
  | TG   | AT/   | A I          | A A   | A T  
  | A T   | A T   | TA   | GT   | T 1  | 2256U.CDS17.II-1  
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| 839  | TCATI  | ACT   | GCI   | CC   
  | TAI   | A A   | AT   
   | GT  | AG.   | a a t<br>A A T   | TT  | 1 11<br>T T  
  | - A A   | A A A<br>A A A  | GTA  | TA   | TGG  
   | TA   | GC   
  | TG   | АТ <i>І</i><br>АТ <i>І</i>  | A I<br>A T   | A A<br>A A  | AT   
  | A.T.  | AT.   | TA   | GT   | T 1  | 4352VA.CDS17.II-2   
  |
| 835  | TCATT  | ACT   | GCI   | сс   
  | T A I   | 1 A A   | AT   
   | GΤ  | AG  | A A T  | ΤT  | ΤT   
  | TAA   | AAA   | GTA  | ΤA   | TGO  
   | ТА   | GC   
  | T G  | ΑŢΙ   | A T          | A A   | ΑT   
  | ΑT  | ΑT  | ΤA   | GΤ   | T 1  | 6753.CDS17.II-1   
  |
| 836  | TCATT  | ACT   | GCI   | C C  
  | T A J   | ьая<br>ААА  | AT   
   | GT  | AG  | ад і<br>ААТ  | T T   | T T  
  | гая<br>ГАА  | AAA   | GIA  | TA   | TGG  
   | TA   | GC   
  | TG   | 4 1 J<br>A 1 <i>J</i>   | A T<br>A T   | A A<br>A A  | AT   
  | AI<br>AT  | A I<br>A I  | TA   | GI   |  | 9791.CDS17.II-2   
  |
| 839  | TCATI  | ACT   | GCI   | ÇÇ   
  | TA7   | A A   | ΑT   
   | G T   | A G   | A A I  | ΤT  | ΤΤ   
  | T.A.A   | A A A   | GIA  | TA   | TGO  
   | TA   | GC   
  | ΤG   | A T 7   | A T          | A A   | ΑT   
  | A.T.  | A T   | ΤA   | GΤ   | T 1  | 9791.CDS17.II-2   
  |
| 830  | TCATT  | ACT   | GCI   | C C  
  | T A 7   | A A   | A T  
   | GT  | AG.   | A A T  | TT  | ŢŢ   
  | A   | AAA   | GIA  | TA   | TGG  
   | TA   | GC   
  | TG   | A T 7   | A T          | AA  | AT   
  | A T   | A T   | TA   | GT   | TS   | P10291.CDS17.II   
  |
| 839  | TCATT  | ACT   | GCI   | сč   
  | TA1   | i A A   | AT   
   | G T   | AG  | A A T  | ŤŤ  | T T  
  | TAA   | AAA   | GIA  | TA   | TGG  
   | TA   | GC   
  | T G  | а і <i>і</i>  | AT           | AA  | AT   
  | A T   | A T   | TA   | GT   | 1 9  | 42J.CDS17.II  
  |
| 839  | TCATT  | ACT   | GCI   | C C  
  | TAI   | 1 A A   | AT   
   | GΤ  | A G   | A A T  | ΤT  | TT   
  | - T 🗛   | A A A   | G.T.A  | TA   | TGO  
   | TA   | GC   
  | TG   | A T 7   | A T          | AA  | A.T.   
  | A.T.  | A T   | T.A  | GΤ   | T 2  | 740.CDS17.II-1  
  |
| 838  | TCATT  | ACT   | GCI   | C C  
  | I A J<br>T A J  |   | AT   
   | GT  | AG  | A A I<br>A A T   | T T   | T T  
  | TAA   | AAA<br>AAA  | GIA  | TA   | TGO  
   | TA   | GC   
  | cle .  |   | AI           | AA  | ATAT   
  | A I<br>A T  | A I<br>A T  | TA   | GT   | 1 2<br>T 7   | 447VA CDS17.11-2  
  |
| 836  | TCATT  | ACT   | G C 1   | C.C  
  | T.A. I  | 1 A A   | A T  
   | G T   | A G   | A A T  | T T   | T T  
  | A A   | A A A   | G.T.A  | TA   | T G 6  
   | ΤA   | G C  
  | C G  | A.T.1   | A 1          | A A   | A T  
  | A.T.  | ΑT  | ΤA   | G T  | T 1  | 0936VA.CDS17.II   
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|  | ттсаа  | тсал  | ТАА   | АТ   
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  | тта   | саа   | GAT  | GС   | тте  
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  | ТА   | TAA   | AC           | ТА  | тт   
  | тт  | ст  | тс   | AA   | АМ   | atority   
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| 908  | TTCAA  | TCA   | TAA   | AT   
  | G A 1   | TT  | TA   
   | AT  | A A   | C A T  | TG  | A A  
  | TTA   | CAA   | GAT  | GC   | TTO  
   | AA   | cic  
  | TA   | TAI   | AC           | TA  | TT   
  | TT  | C T   | TC   | AA   | A 1  | 2256U.CDS17.II-1  
  |
| 908  | TTCAA  | TCA   | TAA   | ΑT   
  | G A 1   | ТТТ   | ΤA   
   | ΆT  | A A I   | C A T  | TG  | A A  
  | ΤΤΑ   | CAA   | GAT  | GC   | ΤΤC  
   | AA   | СС   
  | ТА   | TAI   | AC           | TA  | ΤT   
  | ТТ  | CΤ  | тс   | A A  | A 1  | 2256U.CDS17.II-2  
  |
| 906<br>905   | TTCAA  | ТСА   | TAA   | A T  
  | GAI   | Γ Τ Τ<br>Γ Τ Τ  | TR   
   | A T   | AA  | CAT  | TG  | A A<br>A A   
  | TTA   | CAA   | GAT  | GC   | TTC  
   | A A  | CC   
  | TA<br>TA   | T A J<br>T A J  | A C          | TA  | TT   
  | T.T.<br>T.T.  | CT  | TC<br>TC   | AA.  | A 1<br>A 1   | 4352VA.CDS17.II<br>6753.CDS17.II-1  
  |
| 906  | TTCAA  | TCA   | TAA   | AT   
  | G A 1   | ГТТ   | CA   
   | A T   | A A   | CAI  | ΤG  | A A  
  | T.T.A   | CAA   | G A T  | GC   | TT   
   | AA   | CT   
  | ΤА   | T A J   | A C          | TA  | ΤT   
  | T.T   | ςT  | TC   | A A  | A 1  | 6753.CDS17.II-2   
  |
| 910  | TTCAA  | TCA   | TAA   | A T  
  | GAI   | Γ Τ Τ<br>Γ Φ Τ  | TA   
   | A T   | AA  | CAT<br>CAT   | TG  | AA   
  | ТТА   | CAA   | GAT  | GC   | TTO  
   | AA   | CI   
  | TA   | T A 7   | A C          | TA  | TT   
  | T T   | C T   | TC   | A A  | A 1  | 9791.CDS17.II-1   
  |
| 898  | TTCAA  | TCA   | TAA   | AT   
  | GA 1  | T T   | CA   
   | Â.T.  | A A   | C A I  | T G   | AA   
  | T T A   | C A A   | GAI  | G.C.   | T T C  
   | AA   | CI   
  | TA   | I A I   | AC           | TA  | T.T.   
  | T.T   | сī  | T C  | AA   | AS   | P10291.CDS17.II   
  |
| 907  | TTCAA  | TCA   | TAA   | AT   
  | G A 1   | ŢΤ  | TA   
   | A T   | A A   | CAT  | TG  | A A  
  | ΓΤΑ   | CAA   | GAT  | GC   | TTC  
   | A A  | clc  
  | T.A  | ΤΑ /  | A C          | ТА  | TT   
  | ΤT  | СŢ  | TC   | AA.  | A 7  | 27J.CDS17.II  
  |
| 909  | TTCAA  | TCAL  | TAA   | A T  
  | GAI   | r T T   | C  
   | AT  | A A I   | C A I  | TG  | A A  
  | T T A   | CAA   | GAI  | GC   | TTC  
   | AA   | сŤ   
  | TA   | TAJ   | AC           | T A   | ŤŤ   
  | ŤŤ  | C T   | τc   | A A<br>A A   | A 9<br>A 2   | 423.CD517.II<br>740.CD517.II-1  
  |
| 907  | TTCAA  | TCA   | TAA   | ΑT   
  | G A 1   | т т -   | CA   
   | A T   | A A   | CA 1   | ŤĞ  | A A  
  | Γ.Τ.Α   | CAA   | G A 1  | G C  | T T C  
   | AA   | CT   
  | ŤΑ   | 1 A 1   | <b>A</b> . C | TA  | ΤŦ   
  | T.T.  | C T   | тс   | A A  | A 2  | 740.CDS17.II-2  
  |
| 909  | TTCAA  | TCA   | TAA   | AI   
  | GAI   |   | C A  
   | A I<br>A T  | AA  | CAI  | TG  | A A<br>A A   
  | I I A<br>I I A  | CAA   | GAI  | GC   | TTO  
   | AA   | CT   
  | TA   | I A A<br>I A Z  | A C          | TA  | T T  
  | T T   | CT  | TC   | AA   | A /<br>A 1   | 44/VA CD517.11<br>.0936VA.CD517.11  
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  | AG   | A T I   | T T          | A A<br>A A  | A T<br>A T   
  | A A<br>A A  | A G   | CA   | TC   | G 1<br>G 1   | 22560.CDS17.II-1<br>.22560.CDS17.II-2   
  |
| 976  | TTCAA  | C T G   | CAI   | TT   
  | GA 7  | A T   | C T  
   | A A   | G T   | G C A  | TT  | TG   
  | A T G   | A T G   | ATT  | TG   | A A A  
   | GA   | A A  
  | A G  | A T Z   | ТТ           | A A   | A T  
  | A A   | A G   | СA   | TC   | G 1  | 4352VA.CDS17.II   
  |
| 975<br>976   | TTCAA  | CTG   | CA1<br>CA1  | ТТ<br>ТТ   
  | GA 1<br>GA 1  | I A T<br>I A T  | CΤ<br>CΤ   
   | A A<br>A A  | GT  | GCA<br>GCA   | ТТ<br>ТТ  | TG   
  | ATG<br>ATG  | ATG<br>ATG  | ATT  | TG   |  
   | GA   | AA   
  | AG   | AT7<br>AT2  | ТТ           | A A<br>A A  | A T<br>A T   
  | AA<br>AA  | A G<br>A G  | CA   | TC.  | A 1<br>A 1   | 6753.CDS17.II-1<br>6753.CDS17.II-2  
  |
| 980  | TTCAA  | CTG   | C.A.1   | TT   
  | GA 1  | AT  | CT   
   | A A   | GT)   | G.C.A  | TT  | T G  
  | A T G   | A.T.G   | A.T.T  | TG   | A A A  
   | GA   | A.A  
  | A G  | A T )   | T T          | AA  | A T  
  | A A   | A G   | C A  | T C  | A 1  | 9791.CDS17.II-1   
  |
| 979  | TTCAA  | CTG   | CAI   | TT   
  | GAI   | AT  | CT   
   | AA  | GT  | GCA  | TT  | TG   
  | ATG   | ATG   | ATT  | TG   | AAA  
   | GA   | AA   
  | AG   | AT /  | ТТ           | AA  | AT   
  | AA<br>AA  | A G   | CA   | TC   | A 1<br>A S   | 9791.CDS17.II-2   
  |
| 977  | TTCAA  | CTG   | CA1   | ΤT   
  | GAJ   | AT  | СĪ   
   | A A   | GT  | GCA  | TT  | TG.  
  | A T G   | A T G   | A T T  | Ť G  | À A A  
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  | A G  | a t j   | ΤĪ           | A A   | A T  
  | A A   | A G   | C A  | τc[  | <u>G</u> 7   | 27J.CDS17.II  
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| 979  | TTCAA  | CTG   | CAI   | ΤT   
  | GA I  | A T   | СŢ   
   | A A   | GI  | G.C.A  | TT  | TG   
  | ATG   | A T G   | A T T  | TG   | AAA  
   | GA   | AA   
  | AG   | A T I   | T 1          | AA  | AT   
  | A A   | A G   | C A  | TC   | A 9  | 42J.CDS17.II  
  |
| 976<br>976   | TTCAA  | CTG   | C A 1   | ΤŢ   
  | G A 7   | A T   | ĊΤ   
   | A A<br>A A  | GT  | GCA  | ΤŤ  | TG   
  | A T G   | A T G   | A T T  | TG   | AAI  
   | GA   | AA   
  | AG   | A T 7   | TT           | A A   | A T  
  | A A   | A G   | CA   | TC   | A 2  | 740.CDS17.II-1  
  |
| 979  | TTAAA  | CTG   | CAI   | TT   
  | GA 1  | AI  | CT   
   | A A   | GT  | G C A  | TT  | TG   
  | A T G   | A T G   | ATI  | TG   | AA   
   | GA   | A A  
  | A G  | A T Z   | ΤŢ           | A A   | A T  
  | A A   | A G   | C A  | TC.  | <u>A</u> 7   | 447VA CDS17.II  
  |
| 975  | TUTULA   |   |   |  
  | S.A.F   | 1. A. I   |  
   | A.A.  | 0.1.)   | 0.0.18   | <u>. 1 1</u>  | 1  
  | A., 1., 19.   | A.10.   | A.1.1  |  | A.A.A  
   | 1.19.1A  | .A. A.   
  | A  | A1F   |              | <u></u>   | . <u>a</u> .1  
  | A.A.  | A.19.   | .C.:A  |  | GI   | 0936VA.CD517.11   
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  |
|  | GCAAT  | GGT   | GAI   | AT   
  | AAJ   | A C A   | AC   
   | AA  | TA  | GCA  | AA  | тс   
  | AAG   | ATT   | TAA  | AA   | CA   
   | G - T  | ТА   
  | AA   | тса   | AAJ          | A G G   | ŢŢ   
  | GA  | AA  | TG   | GA   | <u>A</u> N   | fajority  
  |
|  | GCAAT  | GGT   | G A J<br>1060   | AT   
  | AAJ   | ACA   | 1070   
   | AA  | ΤA  | GCA  | <u>A A</u><br>108   | <u>тс</u><br>0   
  | AAG   | ATT   | <u>T A A</u><br>1090   | AA   | CA(  
   | G - T  | <u>та</u><br>110   
  | <u>аа</u><br>00  | тсі   | A A J        | A G G   | <u>тт</u><br>1110  
  | GA  | AA  | TG   | <u>G A</u><br>1  | A N<br>120   | Majority  
  |
| 1048   | GCAAT  | GGT (<br>GGT  | G A J<br>1060<br>5 G A J  | AT   
  | A A J   | ACA<br>ACA  | 1070   
   | A A<br>A A  | T A<br>T A  | G C A<br>G C A   | A A<br>108<br>A A   | <u>T C</u><br>0<br>T C   
  | A A G<br>A A G  | ATT   | T A A<br>1090<br>T A A   | A A<br>A A   | CA (   
   | G – T<br>G – T   | T A<br>110<br>T A  
  | <u>A A</u><br>00<br><u>A A</u>   | T C I   | A A J        | AGO<br>AGO  | <u>T</u> T<br>1110<br>TT   
  | G A<br>G A  | A A<br>A A  | T G<br>T G   | GA<br>1<br>GA  | A N<br>120   | Majority<br>12256U.CDS17.II-1   
  |
| 1048<br>1048<br>1046   | <u>GCAAI</u><br>GCAAI<br>GCAAI<br>GCAAI  | GGT<br>GGT<br>GGT<br>GGT  | G A J<br>1060<br>G A J<br>G A J<br>G A J  | AT<br>AT<br>AT   
  | A A I<br>A A I<br>A A I<br>A A I  | ACA<br>ACA<br>ACA   | A C<br>1070<br>A C<br>A C  
   | A A<br>A A<br>A A<br>A A  | T A<br>T A<br>T A<br>T A  | G C A<br>G C A<br>G C A<br>G C A                                     | A A<br>108<br>A A<br>A A<br>A A   | TC<br>0<br>TC<br>TC<br>TC  
  | A A G<br>A A G<br>A A G<br>A A G  | ATT<br>ATT<br>ATT<br>ATT  | T A A<br>1090<br>T A A<br>T A A<br>T A A   | AA<br>AA<br>AA<br>AA   | CA (<br>CA (<br>CA (<br>CA )   
   | G – T<br>3 – T<br>5 – T<br>5 – T   | T A<br>110<br>T A<br>T A<br>T A  
  | <u>AA</u><br>)0<br>AA<br>AA<br>AA  | TCI<br>TCI<br>TCI   |              | 4 G G<br>4 G C<br>4 G C<br>4 G C  | T T<br>1110<br>T T<br>T T<br>T T   
  | GA<br>GA<br>GA  | A A<br>A A<br>A A<br>A A  | T G<br>T G<br>T G<br>T G   | GA<br>1<br>GA<br>GA<br>GA  | A N<br>120<br>高山<br>五山   | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II  
  |
| 1048<br>1048<br>1046<br>1045   | G C A A I<br>G C A A T<br>G C A A T<br>G C A A T<br>G C A A T  | GGT<br>GGT<br>GGT<br>GGT<br>GGT   | G A J<br>1060<br>S G A J<br>S G A J<br>S G A J<br>G A J   | AT<br>AT<br>AT<br>AT<br>AT   
  | A A J<br>A A J<br>A A J<br>A A J<br>A A J   |   | A C<br>1070<br>A C<br>A C<br>A C<br>A C  
   | A A<br>A A<br>A A<br>A A<br>A A   | TA<br>TA<br>TA<br>TA<br>TA  | G C A<br>G C A<br>G C A<br>G C A                                     | AA<br>108<br>AA<br>AA<br>AA<br>AA   | TC<br>0<br>TC<br>TC<br>TC<br>TC  
  | A A G<br>A A G<br>A A G<br>A A G<br>A A G   | ATT<br>ATT<br>ATT<br>ATT<br>ATT   | TAA<br>1090<br>TAA<br>TAA<br>TAA<br>CAA  | A A<br>A A<br>A A<br>A A<br>A A                                    | CA(<br>CA)<br>CA<br>CA<br>CA   
   | G - T<br>G - T<br>G - T<br>G - T   | TA<br>110<br>TA<br>TA<br>TA<br>TA  
  | AA<br>00<br>AA<br>AA<br>AA<br>AA   | TC<br>TC<br>TC<br>TC  |              | <u>1 G G</u><br>1 G G<br>1 G G<br>1 G G   | T T<br>1110<br>T T<br>T T<br>T T<br>T T  
  | GA<br>GA<br>GA<br>GA  | A A<br>A A<br>A A<br>A A  | T G<br>T G<br>T G<br>T G<br>T G  | GA<br>1<br>GA<br>GA<br>GA<br>GA  | A N<br>120<br>1<br>二<br>高<br>二<br>二<br>二   | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II<br>16753.CDS17.II-1  
  |
| 1048<br>1048<br>1046<br>1045<br>1046<br>1050   | G C A A I<br>G C A A I  | G G T (<br>G G T<br>G G T<br>G G T<br>G G T<br>G G T<br>G G T<br>G G T  | G A J<br>1060<br>G A J<br>G A J<br>G A J<br>G A J<br>G A J<br>G A J   | AT<br>AT<br>AT<br>AT<br>AT<br>AT  
   | A A J<br>A A J<br>A A J<br>A A J<br>A A J<br>A A J<br>A A J   | A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A   | A C<br>1070<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C   
  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA  | GCA<br>GCA<br>GCA<br>GCA<br>GCA                                      | A A<br>108<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | TC<br>0<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC   
   | A A G<br>A A G  | ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT  | TAA<br>1090<br>TAA<br>TAA<br>CAA<br>CAA<br>TAA   | AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA                             | CA(<br>CA)<br>CA<br>CA<br>CA<br>CA<br>CA  
  | G - T<br>G - T<br>G - T<br>G - T<br>G - T<br>S - T<br>S - T  | TA<br>110<br>TA<br>TA<br>TA<br>TA<br>TA   
   | AA<br>00<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA   | TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC  |              | 4 G G<br>4 G G<br>4 G G<br>4 G G<br>4 G G<br>4 G G<br>4 G G                                   | T T<br>1110<br>T T<br>T T<br>T T<br>T T<br>T T  |
GA<br>GA<br>GA<br>GA<br>GA<br>GA  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | T G<br>T G<br>T G<br>T G<br>T G<br>T G   | GA<br>1<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA  | A N<br>120<br>121<br>高高品品<br>高品品   | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1  
  |
| 1048<br>1048<br>1046<br>1045<br>1046<br>1050<br>1049   | G C A A T<br>G C A A T  | G G T<br>G G T  | G A J<br>1060<br>G A J<br>G A J  | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT   
  | A A J<br>A A J<br>A A J<br>A A J<br>A A J<br>A A J<br>A A J   | ACA<br>ACA<br>ACA<br>ACA<br>ACA<br>ACA<br>ACA   | A C<br>1070<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C  
   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  | GCA<br>GCA<br>GCA<br>GCA<br>GCA                                      | A A<br>108<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | TC<br>0<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC  
  | A A G<br>A A G<br>A A G<br>A A G<br>A A G<br>A A G<br>A A G   | ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT   | T A A<br>1090<br>T A A<br>T A A<br>T A A<br>C A A<br>C A A<br>C A A<br>C A A<br>T A A<br>T A A   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | CA (<br>CA (<br>CA (<br>CA (<br>CA (<br>CA (<br>CA (<br>CA (   
   | <u>G</u> - T<br>G - T<br>G - T<br>G - T<br>G - T<br>S - T<br>S - T   | T A<br>110<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A   
  | AA<br>DO<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA   | T C I<br>T C I  |              | <u>A G G</u><br>A G C<br>A G C<br>A G C<br>A G C<br>A G C<br>A G C<br>A G C                   | T T<br>1110<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   
  | A A<br>A A<br>A A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A A  | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G  | G A<br>1<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A  |  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>6753.CDS17.II-1<br>6753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1  
  |
| 1048<br>1048<br>1046<br>1045<br>1046<br>1050<br>1049<br>1038<br>1047   | G C A A T<br>G C A A T   | G G T<br>G G T  | 5 G A J<br>1060<br>5 G A J<br>5 G A J   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T   
  | A A J<br>A A J   |   | A C<br>1070<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C  
  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA  | G C A<br>G C A | AA<br>108<br>AAAAA<br>AAAAAAAAAAAAAAAAAAAAAAAAAAA   | TC<br>0<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC   
   | A A G<br>A A G  | ATT<br>ATTT<br>ATTT<br>ATTT<br>ATTT<br>ATTT<br>ATTT<br>ATTT   | <u>T A A</u><br>1090<br>T A A<br>T A A<br>T A A<br>C A A<br>C A A<br>C A A<br>T A A<br>T A A<br>T A A<br>T A A<br>T A A  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | CA (<br>CA (<br>CA (<br>CA (<br>CA (<br>CA (<br>CA (<br>CA (  
  | G - T<br>G - T<br>G - T<br>G - T<br>G - T<br>G - T<br>S - T<br>G - T<br>S - T<br>S - T<br>S - T<br>S - T   | TA<br>11(<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA   
   | A A<br>DO<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC  |              | <u>4 G G</u><br>4 G C<br>4 G C | T T<br>1110<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T   | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   
  | A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G  | G A<br>1<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A   |  | Majority<br>12256U.CDS17.II-1<br>2226U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-1<br>19791.CDS17.II-2<br>5P10291.CDS17.II   
  |
| 1048<br>1048<br>1046<br>1045<br>1046<br>1050<br>1049<br>1038<br>1047<br>1049   | G C A A T<br>G C A A T   | G G T (<br>G G T<br>G G T  | G A J<br>1060<br>S G A J<br>S G A J  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T   
  | A A J<br>A A J   | A C 2<br>A C 2   | A C<br>1070<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C  
   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  |  | A A<br>108<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A  | T C<br>0<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C   
  | A A G<br>A G | A T T<br>A T T<br>A T T<br>A T T<br>A T T<br>T T<br>T T<br>T  | TAA<br>1090<br>TAA<br>TAA<br>CAA<br>CAA<br>TAA<br>TAA<br>TAA<br>TAA<br>TAA<br>TAA  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | C A (<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A   
  | G - T<br>G - T   | T A<br>110<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  
   | A A<br>DO<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A  | TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC  |              |   | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  | G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A  
   | A A<br>A A<br>A A<br>A A<br>A A<br>A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A  | T 6<br>T 6<br>T 6<br>T 6<br>T 6<br>T 6<br>T 6<br>T 6<br>T 6<br>T 6   | G A<br>1<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A   | A 120 1111111111111111111111111111111111   | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>1270.CDS17.II<br>423.CDS17.II  
   |
| 1048<br>1048<br>1046<br>1045<br>1046<br>1050<br>1049<br>1038<br>1047<br>1049<br>1048   | G C A A T<br>G C A A T   | G G T<br>G G T   |   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  
   | A A J<br>A A J  |   | A C<br>1070<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C   
  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | T A<br>T T A<br>A A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   |  | A A<br>108<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A  | T C<br>0<br>T C C C<br>T T C C<br>T T C C<br>T C C C<br>T C C C<br>T C C C<br>T C C C<br>T C C C<br>T C C C<br>T C C C<br>T C C C<br>T C C C<br>T C C C<br>T C C C<br>T C C C<br>T C C C<br>T T C C C C   
   | A A G<br>A A C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C   | ATT<br>ATTTT<br>ATTTT<br>ATTTT<br>ATTTT<br>ATTTT<br>ATTTT<br>ATTTT<br>ATTTT   |  |  | CA (<br>CA (<br>CA (<br>CA (<br>CA (<br>CA (<br>CA (<br>CA (  
  | G - I<br>G - I  | T A<br>110<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  | A A<br>DO<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A  
   | T C I<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C   |              |   | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  | GA<br>GAA<br>GAA<br>GAA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA   | A A<br>A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A A<br>A A A A A A<br>A A A A A A A A A A A A A A A A<br>A | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G   | G A<br>1<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A  
  | A-120111111279222  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352W.CDS17.II<br>14753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>197021.CDS17.II<br>1273.CDS17.II<br>1740.CDS17.II-2<br>740.CDS17.II-2   |
| 1048<br>1048<br>1046<br>1045<br>1046<br>1050<br>1049<br>1038<br>1049<br>1048<br>1046<br>1049   | <u>G C A A I</u><br><u>G C A A I A I A A I A A A A I A A A A A A</u>   | G G T<br>G G T   | 5 G A J<br>1060<br>5 G A J<br>5 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | A A J<br>A A J  
   |   | A C<br>1070<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C  | A A<br>A A<br>A A<br>A A<br>A A<br>A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A  | T A<br>T T T T T T T T T T T T T T T T T T  |  | A A<br>108<br>A A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | TC<br>0<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC   
   | A A G<br>A A G<br>C C C C C C C C C C C C C C C C C C C   | A T T<br>A T T T<br>A T T T T T<br>T T T T T<br>T T T T   
   |  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | CA (<br>CA (<br>CA (<br>CA (<br>CA (<br>CA (<br>CA (<br>CA (   | <u>G</u> - <u>T</u><br><u>G</u> - <u>T</u><br><u>G</u> - <u>T</u><br><u>T</u><br><u>T</u><br><u>T</u><br><u>T</u><br><u>T</u><br><u>T</u><br><u>T</u>  
   | T A<br>110<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  | A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   
  | T C I<br>T C I |              |   | T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  | GA<br>GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG   | A A<br>A A A A A A A A A A A A A A A A A A  | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G   | G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A  
  | A-120 11111111111111111111111111111111111  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II<br>127J.CDS17.II<br>127J.CDS17.II<br>2740.CDS17.II-1<br>2740.CDS17.II-1   |
| 1048<br>1048<br>1046<br>1050<br>1049<br>1049<br>1048<br>1049<br>1048<br>1046<br>1049<br>1045   | <u>G C A A T</u><br><u>G C A A T</u>   | G G T<br>G G T  | 5 G A J<br>1060<br>5 G A J<br>5 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>6 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7 G A J<br>7  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  |   
   | A C 7<br>A C 7 | <u>A C</u><br>1070<br>A C C<br>A C C<br>A C C<br>A C C<br>A C C<br>A C<br>A C<br>A   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  |  | AA<br>108<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>T  
  | A A G<br>A A G<br>C C G G G G G G G<br>A A A A A A A A A A A A A  | A T T<br>A T T T T<br>T T T T T T T T<br>T T T T  | T A A<br>1090<br>T A A<br>T A A A<br>T A A A<br>T A A A<br>T A A A A   
   |  | C A (<br>C A ()))))))))))))))))))))))))))))))))))  |  | T A<br>111<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A   
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   | A A<br>A A A A A A A A A A A A A A A A A A  | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G  | G A<br>1<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A   | A-12-憲法憲法憲法憲法憲法憲法憲法  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>1727J.CDS17.II<br>1227J.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>10936VA.CDS17.II<br>10936VA.CDS17.II   
   |
| 1048<br>1048<br>1046<br>1045<br>1045<br>1049<br>1038<br>1047<br>1049<br>1048   | <u>G C A A T</u><br><u>G C A A T</u>   | G G T<br>G G G T<br>G G T<br>G G T<br>G G T<br>G G T<br>G G T<br>G G T<br>G G T<br>G G G T<br>G G T<br>G G T<br>G G T<br>G G T<br>G G G T<br>G G G T<br>G G G G  | G A J<br>1060<br>G A J<br>G |   |   |   
   | A C<br>1070<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  |  | AA<br>108<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA   | <u>T C</u><br>0<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C   
   |   | A T T<br>A T T T T T T T<br>A A A A A A A A A   |   
  |  |  | <u>     G     </u>   
   | Т А<br>110<br>Т А<br>Т А<br>Т А<br>Т А<br>Т А<br>Т А<br>Т А<br>Т А<br>Т А<br>Т А  | A A<br>DO<br>A A A<br>A A<br>A A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A  
  | T C I<br>T C I |              |   |   | GA<br>GAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | A A<br>A A A A A A A A A A A A A A A A A A  | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G   | G A<br>1<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A   | A-120 111111127922711 N  
   | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>1942J.CDS17.II<br>1420.CDS17.II-1<br>1740.CDS17.II-1<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>10936VA.CDS17.II<br>14jority   |
| 1048<br>1048<br>1046<br>1045<br>1046<br>1050<br>1049<br>1048<br>1047<br>1049<br>1048   | <u>G C A A T</u><br><u>G C A A T</u>   | G G T (<br>G G T<br>G G G T<br>G G G T<br>G G G T<br>G G T G G T G G T<br>G G T G G | G A J<br>1060<br>G A J<br>G | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | <u>A A J</u><br>A A J<br>A A A J<br>A A J A A J A A J<br>A A J A A A J A A A A J A A A J A   |   
   | A C<br>1070<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C<br>A C  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A | T A<br>T T A<br>T T A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A  |  | A A<br>108<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A  | <u>TC</u><br>0<br>TCC<br>TCC<br>TCC<br>TCC<br>TCC<br>TCC<br>TCC<br>TCC<br>TCC<br>T  
   |   |   |   
  |  |  | <u>S - T</u><br><del>S T</del><br><del>S T</del> | T A<br>110<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A  | <u>A A</u><br>00<br><b>A A A A A A A A A A A A A A A A A A A </b>   
  | T C :<br>T C :<br>T C T C :<br>T |              |   | <u>T</u><br><u>T</u><br><u>T</u><br><u>T</u><br><u>T</u><br><u>T</u><br><u>T</u><br><u>T</u>  | G A<br>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  | A A<br>A A A A A A A A A A A A A A A A A A  | T 6<br>T 6<br>T 6<br>T 6<br>T 6<br>T 6<br>T 6<br>T 6<br>T 6<br>T 6   | I G A<br>1<br>0 A<br>6 A<br>6 A<br>6 A<br>6 A<br>6 A<br>6 A<br>6 A<br>6   
  | A-120 11111111111111111111111111111111111  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>1270.CDS17.II-1<br>1240.CDS17.II-1<br>1740.CDS17.II-1<br>1447VA.CDS17.II-1<br>10936VA.CDS17.II<br>4ajority   |
| 1048<br>1048<br>1046<br>1045<br>1050<br>1049<br>1048<br>1046<br>1049<br>1045   | <u>G C A A T</u><br><u>G C A A T</u>   | G G T (<br>G G T<br>G G G T<br>G G T<br>G G T<br>G G T<br>G G T<br>G G T<br>G G G G   | 5 G A 3<br>1060<br>5 G A 3<br>5 G A   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | <u>A A J</u><br>A A J<br>A A A J<br>A A A A A J<br>A A A A A A A A A A A A A A A A A A A |   
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  | A-120 111111279222711 A-1922121111111  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071.2<br>1071. |
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  | A-11-111111111111111111111111111111111   | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19740.CDS17.II-1<br>1740.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.C   |
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| 1324   | GATAAT  | ATTGG   | GGATO   
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| 1320   | GATAAT  | ATTGG   | GGATO   
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| 1329   | GATAAT  | ATTGG   | GGATO   
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   | TTO   | TI   | AAT   | TCTG   
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| 1315   | GATAAT  | ATTGG   | GGATO   
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  | AAG  | AGG   
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   | TT  | TC   | A A T   | TCTG   
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| 1325   | GATAAT  | ATTGG   | GGATO   
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   | 727J.CDS17.II  |  |   |  |  
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| 1324   | GATAAT  | ATTGG   | GGAT  
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| 1328   | GATAAT  | ATTGG   | GGATO   
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| 1389   | AATTAA  | ACGAT   | A A A Q   
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| 1398   | AATTAA  | ACGAT   | A A A A   
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| 1395   | AATTAA  | ACGAT.  | AAAA  
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| 1394   | AATTAA  | ACGAT.  |   
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  | АСТ  | <u>G G A</u><br>1   
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   | A A T<br>A A T<br>A A T  | ATG<br>ATG<br>ATG  | <u>СТА</u><br>151<br>СТА<br>СТА   
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| 1467<br>1467<br>1464<br>1458   | <u>A A A A A C</u><br>A A A A A A C<br>A A A A A C<br>A A A A A C<br>A A A A  | <u>A A A A A</u><br>1480<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A  | ATTC(<br>ATTC)<br>ATTC<br>ATTC<br>ATTC]   
  | G C A A J<br>14<br>1 C A A J<br>1 C A A J<br>2 C A A J<br>2 C A A J<br>4 C A A J   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
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   | TAT<br>TAT<br>TAT<br>TAT<br>TAT  | <u>T C A</u><br>1500<br>T C A<br>T C A<br>T C A<br>T C A   
   
   | A A T<br>A A T<br>A A T<br>A A T<br>A A T  | ATG<br>ATG<br>ATG<br>ATG<br>ATG  | <u>СТА</u><br>151<br>СТА<br>СТА<br>СТА<br>СТА   
   | ATT<br>10<br>ATT<br>ATT<br>ATT<br>ATT   
  | ACT<br>ACT<br>ACT<br>ACT<br>ACT  | G G A<br>1<br>G G A<br>G G A<br>G G A<br>G G A  
   | ACA<br>520<br>ACA<br>ACA<br>ACA<br>ACA  | CCA<br>CCA<br>CCA<br>CCA<br>CCA  | GG<br>GG<br>GG<br>GT   
   | ITC<br>153<br>ITC<br>ITC<br>ITC<br>ITC<br>ICA   |  | CAP<br>CAP<br>CAP<br>CAP  | ATC<br>15<br>ATC<br>ATC<br>ATC   
   | A Majority<br>540<br>A 12256U.CDS17.II-1<br>A 12256U.CDS17.II-2<br>A 14352VA.CDS17.II-<br>1 16753.CDS17.II-1   |  |   |  |  
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| 1467<br>1467<br>1464<br>1458<br>1459   | <u>A A A A A C</u><br>A A A A A A C<br>A A A A A C<br>A A A A A C<br>A A A A  | <u>A A A A A</u><br>1480<br>A A A A A A<br>A A A A A | ATTC<br>ATTC<br>ATTC<br>ATTC<br>-<br>ITCC<br>ATTC  
   | G C A A J<br>14<br>3 C A A J<br>3 C A A J<br>3 C A A J<br>4 C A A J<br>A C A A J<br>A C A A J   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
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  | TAT<br>TAT<br>TAT<br>TAT<br>TAT<br>TAT   | T C A<br>1500<br>T C A<br>T C A<br>T C A<br>T C A<br>T C A  
   
  | A A T<br>A A T<br>A A T<br>A A T<br>A A T<br>A A T<br>A A T  | ATG<br>ATG<br>ATG<br>ATG<br>ATG<br>ATG<br>ATG  | <u>СТА</u><br>151<br>СТА<br>СТА<br>СТА<br>СТА<br>СТА   
  | ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>AT   
   | ACT<br>ACT<br>ACT<br>ACT<br>ACT<br>T   | G G A<br>1<br>G G A<br>G G A<br>G G A<br>G G A<br>G G A  
  | A C A<br>520<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A   | CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA   | G G<br>G G<br>G G<br>G T<br>T G   
  | ITC<br>153<br>ITC<br>ITC<br>ITC<br>I <u>TC</u><br>ITC   |  | CAP<br>CAP<br>CAP<br>CAP<br>CAP<br>CAP  | ATC<br>15<br>ATC<br>ATC<br>ATC<br>ATC<br>ATC  
  | A Majority<br>540<br>A 12256U.CDS17.II-1<br>A 12256U.CDS17.II-2<br>A 14352VA.CDS17.II<br>A 16753.CDS17.II-1<br>A 16753.CDS17.II-2  |  |   |  |   
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| 1467<br>1467<br>1464<br>1458<br>1459<br>1469   |   | A A A A A<br>1480<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A   | ATTC<br>ATTC<br>ATTC<br>ATTC<br>- TTC<br>ATTC<br>ATTC   
  | <u>3 C A A J</u><br>14<br>3 C A A J<br>5 C A A J<br>2 C A A J<br>A C A A J<br>3 C A A J<br>3 C A A J<br>3 C A A J  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
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   | TAT<br>TAT<br>TAT<br>TAT<br>TAT<br>TAT   | <u>T C A</u><br>1500<br>T C A<br>T C A<br>T C A<br>T C A<br>T C A<br>T C A<br>T C A  
   
   | A A T<br>A A T  | ATG<br>ATG<br>ATG<br>ATG<br>ATG<br>ATG<br>ATG<br>ATG   | CTA<br>151<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA  
  | ATT<br>LO<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT   
   | ACT<br>ACT<br>ACT<br>ACT<br>ACT<br>ACT<br>ACT  | G G A<br>1:<br>G G A<br>G G A<br>G G A<br>G G A<br>G G A<br>G G A<br>G G A   
  | ACA<br>520<br>ACA<br>ACA<br>ACA<br>ACA<br>ACA   | CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA  | G G<br>G G<br>G G<br>G T<br>I G<br>G G<br>G G   
  | ITC<br>153<br>ITC<br>ITC<br>ITC<br>ITC<br>ITC<br>ITC  |  | CAP<br>CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ  | ATC<br>ATC<br>ATC<br>ATC<br>ATC<br>ATC<br>ATC<br>ATC  
  | A Majority<br>540<br>A 12256U.CDS17.II-1<br>A 14352VA.CDS17.II-2<br>A 14352VA.CDS17.II-1<br>A 16753.CDS17.II-2<br>A 19791.CDS17.II-2<br>A 19791.CDS17.II-1   |  |   |  |   
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| 1467<br>1464<br>1458<br>1459<br>1469<br>1468<br>1455   | <u>A A A A A C</u><br>A <u>A A A A C</u><br>A <u>A A A A C</u><br>A <u>A A A A A C</u><br>A <u>A A A A A C</u><br>A <u>A A A A A C</u>  | A A A A A<br>1480<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A   | ATTC<br>ATTC<br>ATTC<br>ATTC<br>ITC<br>ATTC<br>ATTC<br>ATTC<br>A  
  | <u>3 C A A J</u><br>14<br>2 C A A J<br>3 C A A J<br>6 C A A J<br>4 C A A J<br>4 C A A J<br>5 C A A J<br>5 C A A J<br>5 C A A J<br>5 C A A J  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
  | A G A (<br>190<br>A G A (<br>A G A (   | <u>G T T</u><br><u>S T T</u><br><u>S T T</u><br><u>S T T</u><br><u>S T T</u><br><u>S T T</u><br><u>S T T</u><br><u>S T T</u>  
   | TAT<br>TAT<br>TAT<br>TAT<br>TAT<br>TAT<br>TAT<br>TAT   | T C A<br>1500<br>T C A<br>T C A  
   
   | A A T<br>A A T  | A T G<br>A T G  | CTA<br>151<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA   
   | ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT   
  | ACT<br>ACT<br>ACT<br>ACT<br>ACT<br>ACT<br>ACT<br>ACT<br>ACT<br>ACT   | G G A<br>1<br>G G A<br>G G A<br>G G A<br>G G A<br>G G A<br>G G A  
   | A C A<br>520<br>A C A<br>A C A   | CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA  | G G<br>G G<br>G C<br>G T<br>T G<br>G G<br>G G<br>G G<br>G G   
  | I T C<br>153<br>I T C<br>I T C<br>I T C<br>I T C<br>I T C<br>I T C<br>I T C   | A G G<br>A G G<br>A G G<br>G G -<br>G G -<br>A G G<br>A G G<br>A G G<br>A G G  | CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ   | ATC<br>15<br>ATC<br>ATC<br>ATC<br>ATC<br>ATC<br>ATC<br>ATC<br>ATC   
  | A Majority<br>540<br>A 12256U.CDS17.II-1<br>A 12256U.CDS17.II-2<br>A 14352VA.CDS17.II-1<br>A 16753.CDS17.II-2<br>K 15791.CDS17.II-1<br>E 15791.CDS17.II-2<br>G 55P10291.CDS17.II-1   |  |   |  |   
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| 1467<br>1467<br>1464<br>1459<br>1469<br>1468<br>1455<br>1465<br>1465   |   | A A A A A<br>1480<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A   | ATTC<br>ATTC<br>ATTC<br>ATTC<br>ATTC<br>ATTC<br>ATTC<br>ATTC  
  | <u>5 C A A J</u><br>14<br>2 C A A J<br>3 C A A J<br>2 C A A J<br>4 C A A J<br>6 A A J<br>5 C A A J<br>5 C A A J<br>5 C A A J<br>5 C A A J<br>5 C A A J<br>5 C A A J  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
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   | T A T<br>T A T   | T C A<br>1500<br>T C A<br>T C A  
   
   | A A T<br>A A T   | A T G<br>A T G  | CTA<br>151<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA  
  | ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT   
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  | <u>A C A</u><br>520<br>520<br>A C A<br>A C A C   | CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA  | G G<br>G G<br>G G<br>G T<br>T G<br>G G<br>G G<br>G G<br>G G<br>G G   | |
   |  | CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ<br>CAJ  | LATC<br>15<br>ATC<br>ATC<br>ATC<br>ATC<br>ATC<br>ATC<br>ATC<br>ATC   | A Majority<br>540<br>1 12256U.CDS17.II-1<br>2 14352VA.CDS17.II-1<br>2 14352VA.CDS17.II-1<br>2 1673.CDS17.II-2<br>2 19791.CDS17.II-2<br>2 19791.CDS17.II-1<br>2 5910291.CDS17.II<br>4 7273.CDS17.II<br>5 49207.CDS17.II<br>5 49207.CDS17.                   |      
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| 1467<br>1464<br>1458<br>1459<br>1469<br>1468<br>1455<br>1465<br>1465<br>1465   |   | A A A A A<br>1480<br>X A A A A<br>A A A A A<br>A A A A A<br>A A A A   | ATTC<br>ATTC<br>ATTC<br>ATTC<br>ITC<br>ITC<br>ITC<br>ATTC<br>ATTC<br>ATTC<br>ATTC<br>ATTC<br>ATTC<br>ITC<br>ITC<br>ITC<br>ITC<br>ITC<br>ITC<br>ITC  
  | <u>3 C A A J</u><br>14<br>1 C A A J<br>2 C A A J<br>3 C A A J<br>3 C A A J<br>3 C A A J<br>3 C A A J<br>3 C A A J<br>3 C A A J<br>3 C A A J<br>3 C A A J<br>3 C A A J  
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
   
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  | <u>T A T</u><br>T A T<br>T A T   | <u>T C A</u><br>1500<br>T C A<br>T C A  
   
   | A A T<br>A A T   | A T G<br>A T G   | <u>СТА</u><br>151<br>СТА<br>СТА<br>СТА<br>СТА<br>СТА<br>СТА<br>СТА<br>СТА<br>СТА<br>СТА   
   | ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT<br>ATT  
  |  | G G A<br>1<br>G G A<br>G G A  
  | A C A<br>520<br>A C A<br>A C A   | CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA<br>CCA  | GG<br>GG<br>GT<br>GG<br>GG<br>GG<br>GG<br>GG<br>GG<br>GG<br>GG   
   |   |  | C A J<br>C A J   | LATC.<br>15<br>ATC.<br>ATC.<br>ATC.<br>ATC.<br>ATC.<br>ATC.<br>ATC.<br>ATC.   
  | A Majority<br>41<br>42<br>412256U.CDS17.II-1<br>42<br>412352VA.CDS17.II-1<br>42<br>416735.CDS17.II-1<br>4216735.CDS17.II-1<br>4216791.CDS17.II-1<br>4216791.CDS17.II-1<br>419791.CDS17.II-1<br>419721.CDS17.II<br>42242.CDS17.II-1<br>42242.CDS17.II-1<br>42242.CDS17.II-1<br>42242.CDS17.II-1<br>42242.CDS17.II-1<br>42242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>4242.CDS17.II-1<br>424 |  |   |  |   
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  | <u>A C T</u><br><u>A C T</u>   | G G A<br>1<br>G G A<br>G G A  
   | A C A<br>520<br>A C A<br>A C A   | <u>ССА</u><br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА<br>ССА  | G G<br>G G<br>G G<br>G G<br>G G<br>G G<br>G G<br>G G<br>G G<br>G G  
  |   | A G G<br>0<br>A G G<br>G G G<br>G G G<br>G G G<br>A G G<br>G G G<br>A G G<br>G G G<br>A G G<br>G G G<br>A G G<br>G G G<br>A G G<br>G G G<br>A G G<br>G G   | C A J<br>C A J  | LATC.<br>15<br>ATC.<br>ATC.<br>ATC.<br>ATC.<br>ATC.<br>ATC.<br>ATC.<br>ATC.<br>ATC.<br>ATC.<br>ATC.<br>ATC.<br>ATC.   
  | A Majority<br>540<br>4 12256U.CDS17.II-1<br>4 12256U.CDS17.II-2<br>4 14352VA.CDS17.II-1<br>5 16753.CDS17.II-1<br>5 16753.CDS17.II-2<br>5 18791.CDS17.II-2<br>6 SP10291.CDS17.II-2<br>6 SP10291.CDS17.II-1<br>4 9420.CDS17.II-1<br>5 2740.CDS17.II-1<br>2 740.CDS17.II-1<br>2 740                   |  |   |  |  |  |   
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  | A A T<br>A A T   | A T G<br>A T G  
   | CTA<br>151<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA<br>CTA  
   | <u>A T T</u><br>0<br><u>A T T</u><br><u>A T T</u>  | <u>A C T</u><br><u>A C T</u>   | G G A<br>1<br>G G A<br>G G G A<br>G A   
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   |   |  |   | A T C<br>15<br>A T C<br>A   | A Majority<br>540<br>4 12256U.CDS17.II-1<br>4 12256U.CDS17.II-2<br>4 14553.CDS17.II-1<br>4 16753.CDS17.II-1<br>4 16753.CDS17.II-2<br>5 19791.CDS17.II-2<br>5 5910.CDS17.II-2<br>5 9420.CDS17.II-1<br>4 2740.CDS17.II-2<br>2 740.CDS17.II-2<br>4 740.CDS17.II-2<br>1 49396VA.CDS17.II-1<br>1 49396VA.   |  |  
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   | A A T<br>A A T   | A T G<br>A T G  | C T A<br>151<br>C T A<br>C T   
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12256U.CDS17.II-1<br/>A 12256U.CDS17.II-1<br/>A 1477XA CDS17.II-1<br/>A 14753.CDS17.II-2<br/>A 14753.CDS17.II-1<br/>A 1991.CDS17.II-1<br/>A 1993.CDS17.II-1<br/>A /td></td></tr> <tr><td>1467<br/>1467<br/>1467<br/>1468<br/>1459<br/>1468<br/>1455<br/>1465<br/>1467<br/>1468<br/>1457<br/>1533<br/>1524<br/>1533<br/>1524<br/>1533<br/>1524<br/>1534<br/>1534<br/>1534<br/>1534<br/>1527<br/>1633<br/>1527</td><td><math display="block">\begin{array}{c} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} 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\textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{C} \textbf{A} \textbf{C} \textbf{T} \textbf{T} \end{matrix} \\ \textbf{A} \textbf{C} \textbf{A} \textbf{C} \textbf{T} \textbf{T} \end{matrix} \end{matrix} \textbf{A} \textbf{C} \textbf{C} \textbf{T} \textbf{T} \end{matrix} \\ \textbf{A} \textbf{C} \textbf{A} \textbf{C} \textbf{T} \textbf{T} \textbf{T} \textbf{A} \textbf{C} \textbf{C} \textbf{C} \textbf{T} \textbf{T} \end{matrix} \textbf{A} \textbf{C} \textbf{C} \textbf{C} \textbf{T} \textbf{T} \textbf{A} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{T} \textbf{T} \end{matrix} \textbf{A} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{T} \textbf{T} \textbf{T} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{T} \textbf{T} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{T} \textbf{T} \textbf{T} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{T} \textbf{T} \textbf{T} \textbf{C} \textbf{C} C</math></td><td></td><td>A T T C (<br/>A T T C)<br/>A T T T C)<br/>A T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A T T T C)<br/>A</td><td>3 C A A J           14           1 C A A J           1 T G C A A J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1</td><td>A G A (<br/>190<br/>A G A (<br/>A G A (</td><td></td><td>T A T<br/>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT</td><td>I         CA           1500         A           7         T           1500         C           2         C&lt;</td><td></td><td>A T G<br/>A T G G<br/>A T G G G<br/>A T G G G<br/>A T G G G<br/>A T G G G<br/>A T G G G<br/>A T G G G<br/>A T G G G<br/>A T G G G<br/>A T G G G<br/>A T G G G<br/>A T G G G<br/>A T G G G<br/>A T G G G A<br/>C G G A A T G G G A<br/>C G G A A A T G G G A<br/>C G G A A A A C G C G A A A A A C G C C G G A<br/>C C G G A A A A C G C C C G C C C C C C</td><td><u>C T A A</u><br/>1517<br/>2 T A A A A C A C A C A C A C A C A C A C</td><td>A T T<br/>10<br/>A T T T T<br/>A T T T T T<br/>A T T T T T<br/>A T T T T T T T<br/>A T T T T T T T T T T T T T T T T T T T</td><td></td><td>G         G         A           1         1         C           0         0         C         A           0         0         C         A           0         0         C         A           0         0         C         A           0         0         C         A           0         0         C         C           0         0         C         C           0         0         C         C           0         0         C         C           0         0         C         C           0         0         C         C           0         0         C         C           0         0         C         C           0         0         C         C           1         A         A         A           1         A         A         A           1         A         A         A       
   1         A         A         A           1         A         A         A           1         A         A         A</td><td></td><td>C C A<br/>C C C C C C C C C C C C C C C C C</td><td>G         G           G         G           G         G           G         G           G         G           G         G           G         G           G         G           G         G           G         G           G         G           G         G           G         G           G         G           G         G           G         G           G         G           G         G           G         G           A         G           A         G           A         G           A         G           A         G</td><td></td><td></td><td></td><td></td><td>A Majority<br/>A Majority<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-2<br/>A 14352VA.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1679.CDS17.II-1<br/>A 1679.CDS17.II-1<br/>A 2740.CDS17.II-1<br/>A 2740.CDS17.II-1<br/>A 14074.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>T 122560.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 1673.CDS17.II-1<br/>T 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<tr><td>1467<br/>1467<br/>1464<br/>1459<br/>1468<br/>1469<br/>1468<br/>1467<br/>1465<br/>1467<br/>1467<br/>1537<br/>1533<br/>1526<br/>1525<br/>1537<br/>1538<br/>1524<br/>1539<br/>1538<br/>1524<br/>1539<br/>1538<br/>1527<br/>1607<br/>1607<br/>1607<br/>1607<br/>1608<br/>1595<br/>1593</td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>A A A A A A A A A A A A A A A A A A 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C A A J           14           1 C A A J           1 C A A J           1 C A A J           1 C A A J           1 C A A J           1 C A A J           1 C A A J           1 C A A J           1 C A A J           1 C A A J           1 C A A J           1 C A A J           1 C A A J           2 C A A J           1 C A A J           2 C A A J           2 C A A J           2 C A A J           2 C A A J           2 C A A J           2 C A A J           2 C A A J           3 C A A J           1 C A G G           1 T G G G           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G C J           1 T G</td><td>A G A (<br/>190<br/>A G A (<br/>A G A (</td><td></td><td>I         A         T           T         A         T         T           T         T         T         T           T         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T         T           A         T         T</td><td>I         Constant         Co</td><td></td><td>A T G<br/>A T G</td><td><u>CTA</u><br/>151<br/>151<br/>151<br/>151<br/>152<br/>152<br/>155<br/>155</td><td>A T 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G</td><td></td><td>C         C         A           C         C         C         C           C         C         C         C           C         C         C         C           C         C         C         C           C         C         C         C           C         C         C         C           C         C         C         C           C         C         C         C           C         C         C         C           C         C         C         C           C         C         C         A           C         C         C         A           C         C         C         A           C         C         A         A           C         C         A         A           A         A         C         C</td><td>G         G           G         G</td><td></td><td></td><td></td><td>A A T C<br/>19<br/>19<br/>19<br/>19<br/>19<br/>19<br/>19<br/>19<br/>19<br/>19</td><td>A Majority<br/>A Majority<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-2<br/>A 14352VA.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1747VA CDS17.II-1<br/>A 7447VA CDS17.II-1<br/>A 7447VA CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 122560.CDS17.II-1<br/>A 1673.CDS17.II-1<br/>A 1673.</td></tr> <tr><td>1467<br/>1467<br/>1468<br/>1459<br/>1468<br/>1459<br/>1468<br/>1467<br/>1468<br/>1467<br/>1537<br/>1533<br/>1534<br/>1534<br/>1535<br/>1537<br/>1534<br/>1534<br/>1534<br/>1534<br/>1534<br/>1534<br/>1534<br/>1534</td><td></td><td>A A A A A A A A A A A A A A A A A A A</td><td>A T T C (<br/>A T T C)<br/>A T T</td><td>S C A A J           14           C A A J           C A T G G J           T T G C J           T T G C J           T T G C J           T T G C J           T T G C J           T T G C J           T T G C J           T T G C J           T T G C J           T T G C J           T T G C J           T T G C J           T T G C J           T T G C J</td><td>A G A (<br/>190<br/>4 G A (<br/>4 G A (</td><td></td><td>T A T<br/>TTTTTTTTTTTTTTTTTTTT<br/>A A T T<br/>A T T T A A A A T T<br/>A A T T<br/>T T T T A A A A T T<br/>A A T T<br/>T T T T A A A A T T<br/>A A T T<br/>A A T T<br/>T T T T T A A A A T T<br/>A A T T<br/>T T T T A A A A T T<br/>A A T T<br/>T T T T A A A A T T<br/>A A T T<br/>T T T T A A A A T T<br/>A A T T<br/>A A T T T T T T T T T T T T T T T T T T</td><td>I         Constant         Co</td><td></td><td>A T G<br/>A A A A A A A A A A A A A A A A A A A</td><td>C T A         151           C T A A         157           C T A A         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14734.CDS17.II-1<br>A 19791.CDS17.II-2<br>A 19791.CDS17.II-2<br>A 19791.CDS17.II-2<br>A 19791.CDS17.II-1<br>A 19794.CDS17.II-1<br>A 19794.CDS17   | 1467<br>1467<br>1458<br>1459<br>1469<br>1468<br>1465<br>1465<br>1465<br>1465<br>1465<br>1465<br>1537<br>1533<br>1525<br>1539<br>1538<br>1525<br>1538<br>1527<br>1533 | $\begin{array}{c} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{A} \textbf{C} \\ 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        2           2           2           2           2           2           2           2           2           2           2           2           2           2           2           2 <td></td> <td><u>C C A</u><br/>C C A<br/>C C C A<br/>C C C A<br/>A<br/>C br/>A<br/>A<br/>A<br/>A<br/>A<br/>A<br/>A<br/>A<br/>A<br/>A<br/>A</td> <td></td> <td></td> <td></td> <td></td> <td>19 A T C</td> <td>A Majority<br/>A Majority<br/>A 12256U.CDS17.II-1<br/>A 12256U.CDS17.II-2<br/>A 14352VA.CDS17.II-1<br/>A 1453.CDS17.II-1<br/>A 1575.CDS17.II-2<br/>A 15791.CDS17.II-2<br/>A 15791.CDS17.II-2<br/>A 16793.CDS17.II-2<br/>A 10936VA.CDS17.II-1<br/>A 10936VA.CDS17.II-1<br/>A 10936VA.CDS17.II-1<br/>A 10936VA.CDS17.II-1<br/>A 12256U.CDS17.II-2<br/>A 14352VA.CDS17.II-1<br/>A 14753.CDS17.II-2<br/>A 14753.CDS17.II-2<br/>A 15791.CDS17.II-2<br/>A 15791.C</td> |  | <u>C C A</u><br>C C A<br>C C C A<br>C C C A<br>A<br>C br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A |  |  |  |  | 19 A T C | A Majority<br>A 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|  | AATTA   | ATC  | стс  | TTO   
  | C A J | АСТ  
  | AG  | AT  | TI  | C G (   | CAA   | A T I  
  | TA  | AT  | GΑ   
   | AC   | AAG   | GT 2   | AGA   | AA  
  | Т 1  
   | A   | AA  | A A I   
     | тс  | ΑA  | AA  | ΤA   | AA   | A 1   | TA   | TA   
   | Majority   |
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   | 1730  |   |   
     |   |   | 17  | 10   |  |   |  | 175  
   | 0  |
| 1677   | AATTA   | ATC  | c t c  | T T (   
  | Α.    | C T  
  | AG  | ΑT  | T 1   | G   | AP  | LT 1   
  | T.  | AT  | G A  
   | AC   | AAG   | 5 T 2  | GA  | A A   
  | 1.1  
   | A 1   | A A   | A A   
     | T C   | A A   | A A   | TA   | AA   | A 1   | T.   | or di  
   | 12256U.CDS17.II-1  |
| 1677   | AATAA   | ATC  | стс  | TT (  
  | A )   | 4 C T  
  | A G   | A 1   | T 1   | G (   | A 2   | ΥT1  
  | T 1   | A T   | GΑ   
   | A.C.   | A A G   | 11   | G A   | A A   
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   | A 1   | 1 A J   | ۱A '  
     | T C   | A A   | A A   | ТА   | A A  | A 1   | TA   | TA   
   | 12256U.CDS17.II-2  |
| 1673   | AATTA   | ATC  | CTC  | T.T.  
  | Α.    | C T  
  | A G   | A T   | T 1   | G (   | A A   | L T T  
  | ŢĮ  | A T   | G A  
   | A C  | A A (   | Τ.   | G A   | A A   
  | Τ.]  
   | A I   | A.  | À   
     | T C   | A A   | A A   | TA   | A A  | A 1   | TA   | TA   
   | 14352VA.CDS17.II   |
| 1663   | AAIIA   | ATC  | c + c  | 4 1 (<br>7 7 (  
  |       | $c\tau$  
  | AG  | A I   | 1 1<br>9 7  | G (   | . A A<br>A A  | 1 I I<br>1 T 7   
  | 1 /<br>T 2  | A I<br>A T  | G A  
   | AC   | AAG   | 1 1<br>1 T 1   | G A   | AA  
  | T 1  
   | AI  | LA<br>LA  |   
     | I.C.  | A A<br>A A  | A A   | TA   | AA   | A 1   | T A  | T A  
   | 16753.CD517.TI-1<br>16753.CD517.TI-2   |
| 1679   | AATTA   | ATC  | C.T.C.   | TT  
  | A     | C 1  
  | AG  | AT  | 1.1   | G (   | AA  | T 1  
  | Τ.  | AT  | G A  
   | AC   | A A G   | T 1  | G A   | AA  
  | 1.1  
   | AJ  | 1 A .   | A A   
     | T.C.  | A A   | A A   | TA   | A A  | A 1   | T A  | TA   
   | 19791.CDS17.II-1   |
| 1677   | AATA  | ATC  | CTC  | ΤŢ  
  | A 1   | ιc τ   
  | AG  | A T   | Τ 1   | C G (   | 7 A A   | ιτ 1   
  | T 2   | AT  | GΑ   
   | A C  | A A G   | 5 T 7  | A G A   | <b>A</b> A  
  | ΤI   
   | A.7   | ι Α.  | A .A.   
     | T C   | A A   | A A   | ΤA   | A A  | A 1   | T A  | TA   
   | 19791.CDS17.II-2   |
| 1663   | AATTA   | ATC  | CTC  | TT(   
  | A     | C T  
  | AG  | A T   | 11  | G   | AA  | 1 T 1  
  | ŢĮ  | AT  | GA   
   | AC   | A A G   | 5 T 7  | GA  | AA  
  | 11   
   | A 1   | A   | A A   
     | T C   | A A   | AA  | TA   | AA   | A 1   | TA   | TA   
   | SP10291.CDS17.II   |
| 1677   | AATTA   | ATC  | CIC  | TT(   
  | A     |  
  | AG  | A I   | ΤI  | G   | AA  | ΎΤ 1   
  | TI  | AT  | GA   
   | AC   | AG  | 11   | G A   | AA  
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   | A   | À   | À   
     | т.с.  | A A   | A A   | TA   | AA   | A   | TT A   | TA   
   | 942J.CDS17.II  |
| 1674   | AATTA   | ATC  | СТС  | TT  
  | A )   | C T  
  | A G   | A T   | TI  | G   | AA  | T T  
  | T Z   | A T   | G A  
   | AC   | AA  | Т 7  | G A   | AA  
  | T 1  
   | A   | A   | A.A.  
     | T C   | A A   | A A   | TA   | A A  | A 1   | TA   | TA   
   | 2740.CDS17.II-1  |
| 1671   | AATTA   | A T C  | стс  | T T (   
  | A 1   | ΑCΤ  
  | A G   | A T   | ΤŢ  | r G (   | A A   | ΥT 1   
  | T 2   | A T   | GA   
   | A C  | A A C   | 5 T 1  | IGA   | AA  
  | T 1  
   | A 1   | 1 A I   | A A   
     | T C   | A A   | A A   | ТА   | A A  | A 1   | T A  | ТА   
   | 2740.CDS17.II-2  |
| 1678   | AATTA   | ATC  | С.Т.С.<br>А.Т.А.   | T T (<br>7 + 4  
  | A I   | ACI<br>CT  
  | 2 G   | 8 T   | 11  | GU  | 2 A A   |  
  | 14  | A T   | GA   
   | A C  | A G   | 5 T J  | 1 G A<br>1 7 8  | A A<br>A A  
  | 11   
   | A   | LA.   | A   
     | T.C.<br>† A   | 2 A<br>3 A  | AA  | TA   | A A  | A 1   | 1 A  | TA   
   | 7447VA CDS17.II  |
| 1007   | A.A.4   |  |  | *****   
  |       |  
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   |   | aa  | aa  
     | 4   | A.A   |   |  | A.A.   |   |  |  
   | 1000000.00017.11   |
|  | ATATC   | ТТС  | AAA  | TAI   
  | T J   | AGA  
  | AA  | AG  | T 1   | C C J   | AAA   | AA   
  | TI  | сс  | ТТ   
   | AA   | AAT   | I A I  | A T G   | ΤG  
  | T J  
   | A 1   | T T   | ГТІ   
     | A A   | ΤG  | A T   | ΑT   | A G  | A A   | GI   | TA   
   | Majority   |
|  |   |  | 1760   |   
  |       |  
  | 177   | 70  |   |   |   | 17   
  | 80  |   |  
   |  | 1790  |  |   |   
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   | 1800  |   |   
     |   |   | 18  | 0  |  |   |  | 182  
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| 1747   | ATATC   | TTC  | AAA  | TAI   
  | T.7   | A G A  
  | AA  | A G   | TI  | C C 7   | A A   | A . A . Z  
  | TI  | C C   | TT   
   | AA   | AI  | A I  | T G   | TG  
  | T.7  
   | A   | T.  | I T I   
     | A A   | TG  | AT  | AT   | A G  | A Z   | GT   | TA   
   | 12256U.CDS17.II-1  |
| 1747   | ATATC   | TTC  | A A A  | TAI   
  | T 1   | A G A  
  | A A   | A G   | Τ 1   | C C 1   | 1 A 2   | A 7  
  | TI  | C C   | ΤT   
   | A A  | A 7   | A 1  | IT G  | ΤG  
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   | A 1   | T T   | ΓT  
     | A A   | ΤG  | ΑT  | A T  | A G  | A 7   | GI   | ΤA   
   | 12256U.CDS17.II-2  |
| 1743   | ATATC   | TTC  | AAA  | TRI   
  |       | A G A  
  | AA  | A G   | T 1   | C C 1   | A A A   | 1 A 1  
  | TI  | C C   | TT   
   | A A  | A A I   | AJ   | L T G   | TG  
  | TJ   
   | A   | T   | ΓT.   
     | A A   | TG  | AI  | AT   | A G  | A 1   | GI   | TA   
   | 14352VA.CDS17.II   |
| 1734   | ATATC   | TTC  | AAA  | TA  
  |       | GA   
  | AA  | AG  | ТТ  |   | A A   | A  
  | TI  | СС  | ТТ   
   | AA   | AAI   | A  | T G   | TG  
  | T 7  
   | A   | ΓT  | ГТ  
     | A A   | TG  | AT  | AT   | AG   | AI  | GT   | ТА   
   | 16753.CDS17.II-1<br>16753.CDS17.II-2   |
| 1749   | ATATC   | TTC  | AAA  | TAI   
  | T     | GA   
  | AA  | AG  | Τ 1   | C J   | AA  | AJ   
  | TI  | C C   | ТТ   
   | AA   | A A T   | A 1  | T G   | ΤG  
  | T 7  
   | A   | Т   | ГТ  
     | A A   | ΤG  | ΑT  | ΑT   | AG   | A J   | G I  | ТА   
   | 19791.CDS17.II-1   |
| 1747   | ATATC   | TTC  | A & A  | TAI   
  | ΓŢ.   | L G A  
  | A A   | A G   | Τ 1   | C I   | L A A   | L A J  
  | L T 1   | сc  | ΤŢ   
   | A A  | A A I   | A 1  | I T G   | ΤG  
  | Τ.1  
   | A (   | ΓT  | ΓT  
     | A A   | T G   | ΑĨ  | ΑT   | A G  | A J   | G I  | TA   
   | 19791.CDS17.II-2   |
| 1733   | ATATC   | TTC  | A. A. A.<br>A. A. A.   | TA  
  | - 1 J | 1.6.A  
  | AA  | AG  |   |   |   | A.A. 4   
  |   | 0.0   | 1 1<br>T T   
   | A.A.   | A.A.1   |  |   | 1 15<br>T /   
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   | A   |   | L L   
     | A A .   | 1 G   | AT  | AT   | A G  | A 4   | 5 1  | TA   
   | 727.T CDS17.TT   |
| 1747   | TTATC   | T T C  | A A A  | TAI   
  | τi    | AGA  
  | A A   | A G   | ΤT  | r č i   | À À À   | A 7  
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   | A A  | À À I   | AI   | TG  | ΤG  
  | ΤI   
   | A :   | T T   | ΤT  
     | A A   | ŤĞ  | A T   | ΑT   | A G  | A 7   | GI   | TA   
   | 942J.CDS17.II  |
| 1744   | ATATC   | TTC  | A A A  | T A 1   
  | C     | G A  
  | A A   | A G   | T I   | C C 1   | A A A   | A A 2  
  | T I   | C C   | TT   
   | A A  | A A 1   | 'AJ  | L T G   | T G   
  | TJ   
   | A   | T 1   | ΓT.   
     | A A   | T G   | A I   | A T  | A G  | A 1   | G I  | ΤA   
   | 2740.CDS17.II-1  |
| 1741   | ATATC   | TTC  | A A A  | TAI   
  |       | I.G.A  
  | AA  | AG  | 11  | C 2   | 1 A A   | A 1  
  | 11  | C C   | 11   
   | A A  | A A 1   |  | IT G  | T G   
  | 11   
   | A   | Ĩ   | I I I   
     | A.A.  | TG  | A T   | AT   | AG   | A 1   | GĨ   | TA   
   | 2740.CDS17.II-2  |
| 1737   | ATATC   | TTC  | AAA  | TAI   
  | r IC  | -lg a  
  | AA  | AG  | Τ.1   | C J   | A   | A  
  | TI  | сc  | ΤŤ   
   | AA   | AAI   | A 7  | TG  | T G   
  | T 7  
   | A   | ΓT  | ГТ  
     | A A   | TG  | AT  | ÂT   | AG   | AI  | GI   | TA   
   | 10936VA.CDS17.II   |
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|  | GATTC   | ATC  | GGA  | AAI   
  | AT (  | сст  
  | TG  | ΤC  | AG  | GA (  | GTI   | C A 1  
  | I A I   | ' A A   | ТА   
   | AA   | IGA   | GG   | GAT   | ΤT  
  | T J  
   | T   | G A 1   | I G I   
     | A A   | AA  | TA  | ТС   | AA   | Τ 1   | ТТ   | T -  
   | Majority   |
|  |   |  | 1830   |   
  |       |  
  | 184   | 40  |   |   |   | 18   
  | 50  |   |  
   |  | 1860  |  |   |   
  |  
   | 1870  |   |   
     |   |   | 18  | 0  |  |   |  | 189  
   | 0  |
| 1817   | GATTC   | A T C  | G G A  | A & 1   
  | ΥT (  | C T  
  | ŤG  | TC  | Α (   | 5 A (   | 5 T 1   | ( A )  
  | A 1   | A A   | TA   
   | A A  | r g j   | L G (  | AT  | TT  
  | ŢJ   
   | T (   | 3 A 1   | ſG.   
     | A A   | A A   | T A   | T C  | A A  | T 3   | ΤI   | ТТ   
   | 12256U.CDS17.II-1  |
| 1817   | GATTC   | ATC  | G.G.A.   | A A I   
  | 11    | C 1  
  | T G   | T.C   |   | 5 A (   | \$ T 1  | 1 A 1  
  | A 1   | A A   | TA   
   | A A  | IG 1  | 1 G (  | A 1   | ΤŤ  
  | 11   
   | . T. (  | À   | IG.   
     | A A.  | A A   | 1 1   | TC   | A A  | 11  | 11   | ŤΤ   
   | 12256U.CDS17.II-2  |
| 1803   | GATTC   | ATC  | GGA  | AAI   
  | T (   | ст   
  | TG  | T C   |   | - A (   |   | AI   
  | AI  | AA  | ТА   
   | AA   | CG A  | LG (   | A I<br>A T  | T T   
  | T 2  
   | T   | а на<br>1 д   | C G   
     | AA.<br>AA   | AA  | T A   | τc   | AA   | τ 1   | τī   | τT   
   | 14352VA.CD517.11<br>16753.CD517.11-1   |
| 1802   | GATTC   | ATC  | GGA  | A A J   
  | ίτ (  | C T  
  | TG  | τc  | - 6   | 3 A (   | 1 T 1   | A 1  
  | A 1   | A A   | ΤA   
   | A A  | I G A   | GO   | AI  | TI  
  | Τ.   
   | T (   | A   | ΓG Ι  
     | A A   | A A   | TA  | τc   | A A  | τ 1   | ΤĪ   | ТТ   
   | 16753.CDS17.II-2   |
| 1819   | GATTC   | A T C  | G.G.A  | A A J   
  | AT (  | 7 C 1  
  | TG  | TC  | A 6   | <b>A</b> (  | 1 T 1   | A 1  
  | A 1   | AA  | TA   
   | A.A  | ſG.A  | 6 G (  | A T   | TT  
  | T 1  
   | T (   | A   | G G   
     | A A   | A A   | TA  | TC   | A A  | Τ.1   | TI   | Т –  
   | 19791.CDS17.II-1   |
| 1817   | GATTC   | ATC  | GGA  | AAZ   
  | IT (  | C T  
  | TG  | TC  | A C   | A (   | ; T 1   | Al   
  | AI  | A A   | TA   
   | A A  | GA  | G  | A T   | TT  
  | T 7  
   | T (   | A   | G.  
     | AA<br>NA  | A A   | TA  | TC   | A A  | TI  | TT   | ŢŢ   
   | 19791.CDS17.II-2   |
| 1814   | GATTT   | ATC  | GGA  | AAI   
  | Ť     | TT   
  | ŤG  | ŤC  | A (   | 5 A (   | S T I   | C A 1  
  | A 1   | A A   | TA   
   | AA   | I G J   | GÓ   | AT  | ŤŤ  
  | ŢĴ   
   | T (   | A   | ľG.   
     | A A   | A A   | T A   | ŤĊ   | AA   | T 1   | ΤĪ   | T -  
   | 727J.CDS17.II  |
| 1817   | GATTC   | ATC  | GGA  | A A 1   
  | 1 T ( | : <u>c</u> 1   
  | ŤĞ  | ΤC  | A   | 5 A (   | \$ T 1  | 1 A 1  
  | A 1   | AA  | ΤÀ   
   | AA   | IG 1  | ∖G.(   | A T   | TT  
  | T 1  
   | T (   | i A   | t G i   
     | A.A.  | A A   | T A   | ΤC   | A A  | 11  | T 1  | T -  
   | 942J.CDS17.II  |
| 1814   | GATTC   | ATC  | G.G.A  | A A I   
  | IT (  | CŢ   
  | TG  | TC  | A   | - A (   | T I   | A 1  
  | A 1   | AA  | TA   
   | A A  | G A   | G G  | A T   | ŢŢ  
  | T 7  
   | Ţ   | A   | G )   
     | A A   | A A   | TA  | TC   | AA   | Τ.  | ΤŢ   | T  
   | 2740.CDS17.II-1  |
| 1818   | GATTT   | ATC.   | GGA  | A A J   
  | 1 T ( | CT   
  | TG  | T.C   | A C   | - A (   | 3 T 1   | AI   
  | A 1   | AA  | TA   
   | AA   | IGA   | G (  | s a t   | TT  
  | Ţ,   
   | T (   | ) A   | I G   
     | A A<br>A A  | A A   | TA  | TC   | A A  | T 1   | TI   | 1 -<br>T -   
   | 7447VA CDS17.II-2  |
| 1806   | GATTC   | A T C  | G.G.A.   | A A J   
  | 1 T ( | 7 C 1  
  | TG  | TC  | - 6   | 3 A (   | 1 T 1   | A 1  
  | A 1   | A A   | TA   
   | A.A  | ſ.G.A   | G. (   | A T   | T T   
  | 11   
   | 11  | A '   | r . G . i   
     | A A   | A A   | TA  | TC   | A A  | Τ.1   | Т.Т  | Т -  
   | 10936VA.CDS17.II   |
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|  | A.G. A.A.T  | TTC  |  |   
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   | с т  | лт <b>т</b>   |  | A G C   | • <b>л</b> т  
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   | Majoritu   |
|  | AGAAT   | TTC  | AAA  | ACI   
  | A C : | IGA  
  | ΤŢ  | AT  | : <b>с</b> (  | CGI   | A C J   | AAI  
  | <u>тт</u>   | AT  | GA   
   | СТ   | ATI   | гта  | A G C   | : A 1   
  | T  
   | Ţ   | TA  | G A   
     | AA  | CA  | TA  | ΤG   | AG   | TI  | T  | GAT  
   | Majority   |
|  | AGAAT   | TTC  | <u>A A A</u><br>1900   | ACI   
  | A C : | IGA  
  | T T<br>191  | <u>ат</u><br>10   | : c (   | C G I   | A C J   | A A 1<br>19  
  | ст <i>а</i><br>20   | AT  | GA   
   | СТ   | AT 1<br>1930  | гт I   | A G C   | : A 1   
  | T  
   | ст<br>1940  |   | G A   
     | AA  | CA  | Т Д<br>19   | <u>T G</u>   | AG   | TI  | TO   | <u>5 A T</u><br>196  
   | Majority   |
| 1887   | AGAAT   | TTC<br>TTC   | A A A<br>1900<br>A A A<br>5 A 5  | A C J   
  | 1 C : | IGA<br>IGA   
  | T T<br>191<br>T T   | <u>A</u> T<br>10<br>AT  | : c (   | C G I   | A C J   | <u>A A 1</u><br>19<br>A A 1  
  | ст <i>і</i><br>20<br>Ті   | A T   | G A<br>G A   
   | C T  | AT 1<br>1930<br>AT 1  |  | AGC<br>AGC  | A 1   
  | T (  
   | ст<br>1940<br>Ф   | TA<br>TA  | GA<br>GA  
     | A A<br>A A<br>A A   | C A   | T A<br>19<br>T A  | T G<br>50<br>T G   | A G  | T 1<br>T 1  | TT (   | <u>3 A T</u><br>196<br>3 A T   
   | Majority<br>0<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1  |
| 1887<br>1887<br>1881   | AGAAT<br>AGAAT<br>AGAAT<br>AGAAT  | TTC<br>TTC<br>TTC<br>TCC   | AAA<br>1900<br>AAA<br>AAA<br>AAA   | A C J<br>A C J<br>A C J<br>A C J  
  |       | IGA<br>IGA<br>IGA  
  | T T<br>191<br>T T<br>T T<br>T T   | AT<br>10<br>AT<br>AT  | с.<br>с.  | CGI<br>CGI  | A C J<br>A C J<br>A C J<br>A C J  | A A 1<br>19<br>A A 1<br>A A 1<br>A A 1   
  | 20<br>TJ  | A T<br>A T<br>A T<br>A T  | G A<br>G A<br>G A<br>G A   
   | CT<br>CT<br>CT<br>CT   | AT 1<br>1930<br>AT 1<br>AT 1<br>AT 1  |  | AGC<br>AGC<br>AGC   | A I<br>A I<br>A I   
  | T (<br>T (<br>T (  
   | T 1940  | IA<br>IA<br>IA  | GA<br>GA<br>GA  
     | A A<br>A A<br>A A<br>A G  | C A<br>C A<br>C A   | T A<br>19<br>T A<br>T A<br>T A  | <u>T G</u><br>50<br>T G<br>T G<br>T G  | A G<br>A G<br>A G<br>A G   | T 1<br>T<br>T   | T C<br>T C<br>T C  | G A T<br>196<br>3 A T<br>3 A T<br>3 A T  
   | Majority<br>0<br>12256U.CDS17.II-<br>12256U.CDS17.II-<br>14352VA.CDS17.II  |
| 1887<br>1887<br>1881<br>1872   | AGAAT<br>AGAAT<br>AGAAT<br>AGAAT<br>AGAAT   | TTC<br>TTC<br>TTC<br>TCC<br>TTC  | A A A<br>1900<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A   | ACJ<br>ACJ<br>ACJ<br>ACJ  
  |       | IGA<br>IGA<br>IGA<br>LGA   
  | T T<br>191<br>T T<br>T T<br>T T<br>T T  | A T<br>10<br>A T<br>A T<br>A T<br>A T   |   | G   | ACJ<br>ACJ<br>ACJ<br>ACJ  | A A 1<br>19<br>A A 1<br>A A 1<br>A A 1<br>A A 1<br>A A 1   
  | 1 T J<br>20<br>T J<br>T J<br>T J<br>T J   | AT<br>AT<br>AT<br>AT  | G A<br>G A<br>G A<br>G A<br>G A  
   | CT<br>CT<br>CT<br>CT   | A T 1<br>1930<br>A T 1<br>A T 1<br>A T 1<br>A T 1   |  | AGC<br>AGC<br>AGC<br>AGC<br>AGC   | AI<br>AI<br>AI<br>AI<br>AI  
  | т (<br>т (<br>т (<br>т (<br>т (  
   | T<br>1940<br>T<br>T<br>T  | TA<br>TA<br>TA<br>TA<br>TA  | GA<br>SA<br>SA<br>SA<br>SA  
     | AA<br>AA<br>AA<br>AG<br>AA  | CA<br>CA<br>CA<br>CA  | T P<br>19<br>T P<br>T P<br>T P  | <u>T G</u><br>50<br>T G<br>T G<br>T G<br>T G   | A G<br>A G<br>A G<br>A G<br>A G  | T I<br>T<br>T<br>T<br>T   |  | 3 A T<br>196<br>3 A T<br>3 A T<br>3 A T<br>5 A T   
   | Majority<br>0<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1  |
| 1887<br>1887<br>1881<br>1872<br>1871   | A G A A T<br>A G A A T   | TTC<br>TTC<br>TCC<br>TCC<br>TTC<br>TTC                                       | A A A<br>1900<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A   | ACI<br>ACI<br>ACI<br>ACI   
   |       | IGA<br>IGA<br>IGA<br>IGA  
   | T T<br>191<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T                              | AT<br>10<br>AT<br>AT<br>AT<br>AT<br>AT  |   | G G J<br>G J<br>G J<br>G J<br>G J   | ACJ<br>ACJ<br>ACJ<br>ACJ<br>ACJ   | A A 1<br>19<br>A A 1<br>A A 1<br>A A 1<br>A A 1<br>A A 1  
   | 1 T <i>1</i><br>20<br>T <i>1</i><br>T <i>1</i><br>T <i>1</i><br>T <i>1</i>  | AT<br>AT<br>AT<br>AT  | GA<br>GA<br>GA<br>GA<br>GA  
  | CT<br>CT<br>CT<br>CT<br>CT   | A T 1<br>1930<br>A T 1<br>A T 1<br>A T 1<br>A T 1<br>A T 1  |  | AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC  | A I<br>A I<br>A I<br>A I<br>A I<br>A I   
   | T (<br>T (<br>T (<br>T (<br>T (   
  | T<br>1940<br>T<br>T<br>T  | IA<br>IA<br>IA<br>IA<br>IA  | GA<br>GA<br>GA<br>GA<br>GA  | A A<br>A A<br>A G<br>A A<br>A A<br>A A                   
  | CA<br>CA<br>CA<br>CA  | T A<br>19<br>T A<br>T A<br>T A<br>T A<br>T A<br>T A   | T G<br>50<br>T G<br>T G<br>T G<br>T G<br>T G   | A G<br>A G<br>A G<br>A G<br>A G<br>A G   | T 1<br>T<br>T<br>T<br>T<br>T  |  | <u>5 A T</u><br>196<br>1 A T<br>1 A T<br>5 A T<br>5 A T   
  | Majority<br>0<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-2  |
| 1887<br>1887<br>1881<br>1872<br>1871<br>1888<br>1887   | AGAAT<br>AGAAT<br>AGAAT<br>AGAAT<br>AGAAT<br>AGAAT<br>AGAAT   | TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC                                | A A A<br>1900<br>A A A<br>A A A A  |   
  |       | IGA<br>IGA<br>IGA<br>IGA<br>IGA  
  | T T<br>191<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T                              | A T<br>10<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  |   | G   | A C J<br>A C J<br>A C J<br>A C J<br>A C J<br>A C J<br>A C J   | A A 1<br>19<br>A A 1<br>A A 1  
  | 20<br>T<br>1<br>T<br>1<br>T<br>1<br>T<br>1<br>T   | AT<br>AT<br>AT<br>AT<br>AT<br>AT  | GA<br>GA<br>GA<br>GA<br>GA   
   | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT   | A T 1<br>1930<br>A T 1<br>A T 1<br>A T 1<br>A T 1<br>A T 1<br>A T 1<br>A T 1  |  | AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC   | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1  
  | T (<br>T (<br>T (<br>T (<br>T (<br>T (   
   | T<br>1940<br>T<br>T<br>T<br>T   | TA<br>TA<br>TA<br>TA<br>TA<br>TA  | GA<br>GA<br>GA<br>GA<br>GA<br>GA  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  
   | CA<br>CA<br>CA<br>CA<br>CA<br>CA  | T A<br>19<br>T A<br>T A<br>T A<br>T A<br>T A  | T G<br>50<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G  | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G   | T<br>T<br>T<br>T<br>T<br>T  | T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C                 | <u>3 A T</u><br>196<br>3 A T<br>3 A T<br>3 A T<br>3 A T<br>3 A T<br>3 A T  
   | Majority<br>0<br>12256U.CDS17.II-<br>14352VA.CDS17.II-<br>16753.CDS17.II-<br>16753.CDS17.II-<br>19791.CDS17.II-<br>19791.CDS17.II-2  |
| 1887<br>1887<br>1881<br>1872<br>1871<br>1888<br>1887<br>1872   | AGAAT<br>AGAAT<br>AGAAT<br>AGAAT<br>AGAAT<br>AGAAT<br>AGAAT<br>AGAAT  | TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC                  | AAA<br>1900<br>AAAA<br>AAA<br>AAA<br>AAA<br>AAA<br>AAA<br>AAA<br>AAA<br>AAA  | A C J<br>A C J  
   |       | IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA   
   | T T<br>191<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T                | A T<br>10<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T   |   | G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G  | ACJ<br>ACJ<br>ACJ<br>ACJ<br>ACJ<br>ACJ<br>ACJ   | A A 1<br>19<br>A A 1<br>A A 1   
  | T T 2<br>20<br>T 1<br>T 2<br>T 2<br>T 2<br>T 2<br>T 2<br>T 2<br>T 2<br>T 2<br>T 2<br>T 2  | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  | G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A<br>G A  
   | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT   | A T 1<br>1930<br>A T 1<br>A T 1   |  | AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC   | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1  
  | T (<br>T (<br>T (<br>T (<br>T (<br>T (<br>T (<br>T (   
   | T<br>1940<br>T<br>T<br>T<br>T<br>T<br>T   | TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA                                | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  
   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA  | T P<br>19<br>T P<br>T P<br>T P<br>T P<br>T P<br>T P   | T G<br>50<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A T   | T 1<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T<br>T  | T T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T C<br>T   | 5 A T<br>196<br>1 A T<br>1 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T   
   | Majority<br>0<br>12256U.CDS17.II-<br>12352W.CDS17.II<br>14552W.CDS17.II<br>16753.CDS17.II-<br>19791.CDS17.II-<br>19791.CDS17.II-<br>19791.CDS17.II   |
| 1887<br>1887<br>1881<br>1872<br>1871<br>1888<br>1887<br>1872<br>1872   | A G A A T<br>A G A A T   | TTC<br>TTC<br>TCC<br>TCC<br>TTC<br>TTC<br>TTC<br>TCC<br>TCC                  | A A A<br>1900<br>A A A<br>A A A  | ACI<br>ACI<br>ACI<br>ACI<br>ACI<br>ACI<br>ACI  
   |       | IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA   
   | T T<br>191<br>T T T<br>T T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T       | A T<br>10<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  |   | G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G                                    | ACJ<br>ACJ<br>ACJ<br>ACJ<br>ACJ<br>ACJ<br>ACJ   | A A 1<br>19<br>A A 1<br>A A 1   
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  | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT   | A T 1<br>1930<br>A T 1<br>A T 1   | ГТ]<br>ГТ]<br>ГТ]<br>ГТ]<br>ГТ]<br>ГТ]<br>ГТ]<br>ГТ] | A G C<br>A G C  | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1   
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  | T<br>1940<br>T<br>T<br>T<br>T<br>T<br>T   | TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA<br>TA                          | GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA<br>GA  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   
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  | Majority<br>0<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>14552A.CDS17.II<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II<br>25010231.CDS17.II  |
| 1887<br>1887<br>1881<br>1872<br>1871<br>1888<br>1887<br>1872<br>1883<br>1883   | A G A A T<br>A G A A T   | TTC<br>TTC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC | A A A<br>1900<br>A A A<br>A A A<br>A A A<br>A A<br>A A A A<br>A A A A<br>A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A<br>A A A A  | ACJ<br>ACJ<br>ACJ<br>ACJ<br>ACJ<br>ACJ<br>ACJ<br>ACJ   |       | IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA  
   
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  | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT   | A T 1<br>1930<br>A T 1<br>A T 1   |  | AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC   | A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1   | <u> </u>  
  | T<br>1940<br>T<br>T<br>T<br>T<br>T<br>T<br>T   
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  | T G<br>50<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G   | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G                                 |   |  | <u>5 A T</u><br>196<br>3 A T<br>3 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T   
  | Majority<br>0<br>12256U.CDS17.II<br>12256U.CDS17.II<br>14352VA.CDS17.II<br>16753.CDS17.II<br>19791.CDS17.II<br>19791.CDS17.II<br>SP10291.CDS17.II-<br>943J.CDS17.II<br>943J.CDS17.II-<br>943J.CDS17.II-  |
| 1887<br>1887<br>1881<br>1872<br>1871<br>1888<br>1887<br>1872<br>1872   | A G A A T<br>A G A A T   | TTC<br>TTC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC<br>TC | A A A<br>1900<br>A A A<br>A A A<br>A A<br>A A<br>A A A<br>A A<br>A A A A<br>A A A A<br>A A A A  | ACI<br>ACI<br>ACI<br>ACI<br>ACI<br>ACI<br>ACI<br>ACI<br>ACI  |       | IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA   
   
  |   | <u>A</u> T<br>10<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  |   |   |   | A A 1<br>19<br>4 A 1<br>4 A |  
  |   |  | C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T                                       | A T 1<br>1930<br>A T 1<br>A T 1  
  |  | AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC<br>AGC  | <u>1 A 1</u><br><u>1 A 1 A 1</u><br><u>1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A</u> | 王<br>(<br>王<br>(<br>王<br>(<br>王<br>(<br>王<br>(<br>王<br>(<br>王<br>(<br>王<br>(<br>王<br>(<br>王<br>(   
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| 1887<br>1887<br>1881<br>1872<br>1871<br>1888<br>1887<br>1872<br>1883<br>1883<br>1883<br>1880<br>1887   | A G A A T<br>A G A A T  | TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC           | A A A<br>1900<br>A A A A<br>A br>A A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A<br>A A<br>A<br>A<br>A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   | A C J<br>A C J   
   |       | IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA  
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   |   | <u>A T</u><br><u>A</u> T<br><u>A</u> T<br><u>A</u> T<br><u>A</u> T<br><u>A</u> T<br><u>A</u> T<br><u>A</u> T<br><u>A</u> T<br><u>A</u> T<br><u>A</u> T  | G A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C A<br>C   
  | CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT<br>CT   | A T 1<br>1930<br>A T 1<br>A T 1   |  | A G C<br>A G C   | 1 A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A 1<br>A  
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   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA      | T P<br>19<br>T P<br>T P<br>T P<br>T P<br>T P<br>T P<br>T P<br>T P<br>T P<br>T P   | <u>T G</u><br>50<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G   | A G<br>A G<br>G G<br>G G<br>G G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G<br>G                  | T 1<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  |  | 5 A T<br>196<br>3 A T<br>3 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T<br>5 A T  
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| 1887<br>1887<br>1881<br>1872<br>1871<br>1888<br>1887<br>1872<br>1883<br>1886<br>1883<br>1880<br>1887<br>1874   |   | TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC           | A A A<br>1900<br>X A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A<br>A A A<br>A A A<br>A A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A A A<br>A A A A<br>A A A<br>A A A A   | A C )<br>A C )  |       | I G A<br>I G A I G A<br>I G A<br>I G A I G A<br>I G A   
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  | C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T<br>C T                                       | A T 1<br>1930<br>A T 3<br>A |  | A G C<br>A G C |  | 王<br>(<br>王<br>王<br>(<br>王<br>(<br>王<br>(<br>)<br>(<br>王<br>(<br>)<br>(<br>王<br>(<br>)<br>(<br>王<br>(<br>)<br>(<br>王<br>(<br>)<br>(<br>王<br>(<br>)<br>(<br>王<br>(<br>)<br>(<br>王<br>(<br>)<br>(<br>王<br>(<br>)<br>(<br>)   
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| 1887<br>1881<br>1872<br>1871<br>1878<br>1872<br>1873<br>1883<br>1883<br>1883<br>1883<br>1880<br>1887<br>1874   | <u>A G A A T</u><br><b>X</b> G A A T<br><b>X</b> G A A T A C C  | TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC           | A A A<br>1900<br>A A A A<br>A A<br>A A A<br>A A A<br>A A<br>A A A A   | <u>A C J</u><br><u>A</u> C J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J   |       | I G A<br>I G A  
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| 1887<br>1887<br>1881<br>1872<br>1888<br>1887<br>1872<br>1888<br>1883<br>1880<br>1883<br>1880<br>1887<br>1874   | <u>A G A A T</u><br><u>A G A A T</u>  | TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC<br>TTC           | A A A<br>1900<br>A A A<br>A A<br>A A A<br>A br>A A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A A<br>A A<br>A<br>A A<br>A A<br>A<br>A A<br>A A A A<br>A A A<br>A A A<br>A A A A  | <u>A C J</u><br><u>A</u> C J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J<br><u>A</u> C J J J<br><u>A</u> C J J J<br><u>A</u> C J J J<br><u>A</u> C J J J<br><u>A</u> C J J J J J J C J J J C J J C J J C J C J C J C J C J C J C J C J C J C J C J C J C J C J C J C J C C J C J C C J C C J C C J C C J C C C J C   |       | IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA<br>IGA   
   
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Majority<br>0<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17   |
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   | Majority<br>0<br>12256U.CDS17.II-<br>12256U.CDS17.II-<br>14352VA.CDS17.II-<br>16753.CDS17.II-<br>16753.CDS17.II-<br>19791.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>12256U.CDS17.II-<br>12256U.CDS17.II-<br>12256U.CDS17.II-<br>12256U.CDS17.II-<br>1771.CDS17.II-<br>17971.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>1771.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>10936VA.CDS17.II-<br>10936VA.CDS17.II-<br>12256U.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>14552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17.II-<br>1552X.CDS17                               |
| 1887<br>1887<br>1881<br>1872<br>1871<br>1872<br>1888<br>1880<br>1872<br>1873<br>1880<br>1957<br>1942<br>1941<br>1942<br>1957<br>1942<br>1957<br>1942<br>1957<br>1944<br>1957<br>1944<br>2027<br>2027<br>2021<br>2011<br>2010<br>2028<br>2027<br>2021<br>2012<br>2028 |   | TTC<br>TTCC<br>TTCC<br>TTCC<br>TTCC<br>TTCC<br>TTCC<br>TTCC                  | $\begin{array}{c} \mathbf{A} & \mathbf{A} \\ $   | A C J<br>A  |       | A A A A A A A A A A A A A A A A A A A   
   
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<td>Majority<br/>0<br/>12256U.CDS17.II-<br/>12256U.CDS17.II-<br/>14352VA.CDS17.II-<br/>16753.CDS17.II-<br/>16753.CDS17.II-<br/>19791.CDS17.II-<br/>19791.CDS17.II-<br/>2740.CDS17.II-<br/>2740.CDS17.II-<br/>2740.CDS17.II-<br/>10936VA.CDS17.II-<br/>12256U.CDS17.II-<br/>12256U.CDS17.II-<br/>14352VA.CDS17.II-<br/>16753.CDS17.II-<br/>16753.CDS17.II-<br/>19791.CDS17.II-<br/>19791.CDS17.II-<br/>19791.CDS17.II-<br/>19791.CDS17.II-<br/>19740.CDS17.II-<br/>19740.CDS17.II-<br/>10936VA.CDS17.II-<br/>10936VA.CDS17.II-<br/>10936VA.CDS17.II-<br/>10936VA.CDS17.II-<br/>10936VA.CDS17.II-<br/>10936VA.CDS17.II-<br/>10936VA.CDS17.II-<br/>10936VA.CDS17.II-<br/>10936VA.CDS17.II-<br/>12256U.CDS17.II-<br/>14352VA.CDS17.II-<br/>14552VA.CDS17.II-<br/>14552VA.CDS17.II-<br/>19791.CDS17.II-<br/>19791.CDS17.II-<br/>19791.CDS17.II-<br/>19791.CDS17.II-<br/>19791.CDS17.II-<br/>19791.CDS17.II-<br/>2740.CDS17.II-<br/>19791.CDS17.II-<br/>2740.CDS17.II-<br/>17274.CDS17.II-<br/>2740.CDS17.II-<br/>2740.CDS17.II-<br/>2740.CDS17.II-<br/>2740.CDS17.II-<br/>2740.CDS17.II-</td>  |  
  |   | G A A A A A A A A A A A A A A A A A A A   | A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  | C CCCCCCCCCCC A AAAAAAAAAAAAAAAAAAAAAA  | T 199 B B B B B B B B B B B B B B B B B B  
  | T G G G G G G G G G G G G G G G G G G G  | A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | T<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT   |  |   
  | Majority<br>0<br>12256U.CDS17.II-<br>12256U.CDS17.II-<br>14352VA.CDS17.II-<br>16753.CDS17.II-<br>16753.CDS17.II-<br>19791.CDS17.II-<br>19791.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>10936VA.CDS17.II-<br>12256U.CDS17.II-<br>12256U.CDS17.II-<br>14352VA.CDS17.II-<br>16753.CDS17.II-<br>16753.CDS17.II-<br>19791.CDS17.II-<br>19791.CDS17.II-<br>19791.CDS17.II-<br>19791.CDS17.II-<br>19740.CDS17.II-<br>19740.CDS17.II-<br>10936VA.CDS17.II-<br>10936VA.CDS17.II-<br>10936VA.CDS17.II-<br>10936VA.CDS17.II-<br>10936VA.CDS17.II-<br>10936VA.CDS17.II-<br>10936VA.CDS17.II-<br>10936VA.CDS17.II-<br>10936VA.CDS17.II-<br>12256U.CDS17.II-<br>14352VA.CDS17.II-<br>14552VA.CDS17.II-<br>14552VA.CDS17.II-<br>19791.CDS17.II-<br>19791.CDS17.II-<br>19791.CDS17.II-<br>19791.CDS17.II-<br>19791.CDS17.II-<br>19791.CDS17.II-<br>2740.CDS17.II-<br>19791.CDS17.II-<br>2740.CDS17.II-<br>17274.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-<br>2740.CDS17.II-   |
| 1887<br>1887<br>1882<br>1872<br>1872<br>1872<br>1878<br>1888<br>188  |   | TIC<br>TTCC<br>TTCC<br>TTCC<br>TTCC<br>TTCC<br>TTCC<br>TTCC                  | A 1990<br>A 1990<br>XA XAXAXAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | A C ]<br>A  |       |   
   
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  | Majority<br>0<br>12256U.CDS17.II-1<br>12356U.CDS17.II-1<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>740.CDS17.II-1<br>740.CDS17.II-1<br>740.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-1<br>14352VA.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16792.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-1<br>10936VA.CDS17.II-1<br>19791.CDS17.II-2<br>12256U.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19702.CDS17.II-1<br>16753.CDS17.II-2<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS                                   |

|   | TATAG   | ATA   | CTT  | ΑΤΑ   
  | ΑT  | СТ   | TT  | CAI  | ACA  | AAA  | AG  | AT   
  | GA  | TTO   | C - G  
   | CCI   | ΓGC   | ТТ  | СТ  
  | ΑA   | GG  | СТ                            | GG   | ΑΤ   | ΤA   | 1 1   |  | 1.0  | A 1   | ATT   | Majority   
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   | 2140  | )   |   |   
  | 2  | 150   |                               |  |  | 2  | 160   |  |  |   | 217   | 70   
   |
| 2097  | TATAG   | ATA   | CTT.   | A T A   
  | ΑT  | CT   | TT  | CA 1   | A C A  | A A  | A G   | AT   
  | GA  | Ť Ť (   | A  
   | CC  | I G C   | TT  | CT  
  | A A  | GG  | ĊΤ                            | GG   | A T  | T A  | TT  | C T  | T G  | A T   | ATT   | 12256U.CDS17.II-1  
   |
| 2097  | TATAG   | ATA   | C T T  | A T A   
  | A T   | C T  | ΤŤ  | CA 1   | A C A  | A 1  | AG  | AT   
  | G A   | T T (   | 7 <b>-</b> A   
   | C C 1   | T G C   | TT  | CT  
  | A A  | G G (   | αŢ                            | G G  | A T  | ΤA   | T.T.  | СТ   | t G  | A T   | A T T   | 12256U.CDS17.II-2  
   |
| 2091  | TATAG   | ATA   | CTT  | ATA   
  | A T   | C T  | ΤŢ  | CA.  | A C A  | A A  | A C   | AT   
  | GA  | T.T.(   | - [A   
   | C C   | I G C   | TI  | CT  
  | A A  | G G (   | 인데                            | G G  | A T  | T A  | TT  | CI   | TA   | A T   | ATT   | 14352VA.CDS17.II   
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| 2081  | TATAG   | ATA   | стт.   | A 1 A<br>A T A  
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  | GA  | * + + + + + + + + + + + + + + + + + + +   | - G  
   | c c   | T G C   | ŤŤ  | C T   
  | AA   | GG  | c Ŧ                           | GG   | A T  | Ť À  | * +<br>T T  | с т  | T G  | A T   | A T T   | 16753.CDS17.II-1   
   |
| 2098  | TATAG   | ATA   | СТТ  | A T A   
  | A T   | C T  | T.T   | C A ]  | A.C.A  | A A  | A G   | A T  
  | G A   | T T (   | - A  
   | C C   | I G C   | TT  | C T   
  | A A  | G G   | C T                           | G.G.   | ΑT   | ТА   | ΤT  | C T  | T G  | A T   | A T T   | 19791.CDS17.II-1   
   |
| 2097  | TATAG   | ATA   | C T T  | A T A   
  | A T   | CΤ   | T.T   | CAJ  | A C A  | A.A  | A G   | A T  
  | GA.   | T.T.  | - A  
   | CC  | F G C   | TT  | СT  
  | A A  | <b>G</b> G (  | C T                           | G G  | A T  | TA   | TT  | CT.  | T G  | A T   | A.T.T   | 19791.CDS17.II-2   
   |
| 2082  | TATAG   | ATA   | CIT  | A T A   
  | ΑT  | CT   | ΤŢ  | CG   | A C A  | A 7  | A (   | A T  
  | GA  | ΤΤ (  | TG   
   | CC  | r G C   | ΤŢ  | CT  
  | A A  | GG  |                               | GG   | A T  | TA   | ΤŢ  | C T  | TG   | ΑT  | ATI   | SP10291.CDS17.II   
   |
| 2093  | TATAG   | ATA   | CTT.   | R T R<br>8 7 8  
  | A T   | C T  | TT  | CAI  | ACA  |  | A C   | A T  
  | GA  | T T (   | - A  
   | CC.   | C G C   | TT  | CT  
  | A A  | GG  | μ                             | 6 G  | A T  | TA   | TT  | C T  | TA   | AT  | 8 T T   | 727J.CDS17.II  
   |
| 2093  | TATAG   | ATA   | CTT  | ATA   
  | ΑT  | ст   | ΤT  | CAI  | I C A  | AA   | A G   | AT   
  | G A   | T T (   | - G  
   | c c :   | ΓGC   | ΤT  | ст  
  | AA   | GG  | ст                            | G G  | A T  | TA   | ТТ  | ст   | T G  | A T   | ATT   | 2740.CDS17.II-1  
   |
| 2090  | TATAG   | ATA   | CTT  | ATA   
  | A T   | СТ   | ΤT  | CAI  | C A  | AA   | AG  | AT   
  | GA  | T T (   | - G  
   | C C   | GC  | ТТ  | CT  
  | A A  | GG  | C I                           | GG   | A T  | T A  | ΤТ  | CT   | T G  | ΑT  | ATT   | 2740.CDS17.II-2  
   |
| 2097  | TATAG   | ATA   | CII.   | ATA   
  | A T   | СŢ   | ΤŢ  | C A J  | A C A  | L A J  | A G   | ΑT   
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   | CC  | C C C   | ΤT  | CT  
  | A A  | GG  | C A                           | GG   | A T  | TA   | TT  | СŢ   | I G  | ΑT  | ATI   | 7447VA CDS17.II  
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| 2083  | T.A.T.A.B   | A I A   | C. P. P.   | Attita  
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|   | АТСТТ   | тта   | ттса   | ААА   
  | AC  | AG   | AA  | ттт  | гст  |  | ТА  | АТ   
  | TA  | сті   | гтт  
   | CAR   | ААТ   | сс  | AG  
  | A A  | GG  | GA                            | A A  | A A  | тт   | GA  | A T 1  | ТΑ   | ΤG  | тта   | Majority   
   |
|   |   |   | 2180   |   
  |   |  | 2190  | 0  |  |  |   | 2200   
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   | 2210  |   |   |   
  | 2  | 220   |                               |  |  | 2  | 230   |  |  |   | 224   | 10   
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   |
| 2166  | ATCTT   | ТТА   | T T C  | A A A<br>A A A  
  | A C   | A G  | A A<br>A A  | тт.  | гот<br>гст   | A 1  | TI  | ΑI   
  | та  | с т   | тт   
   | CAI   | а. А. І.<br>А. А. Т   | C C   | AG  
  | A A<br>A A   | GG  | G A                           | н н.<br>А. В.  | А.А.<br>А.А.   | T T  | GA  | A I<br>A T   | TA   | TG  | тта   | 122560.CD517.II-1  
   |
| 2160  | ATCAT   | TTA   | TTC  | AAA   
  | A -   | - G  | A A   | TT   | r c c  | AJ   | T J   | ΑT   
  | T A   | C T 1   | ТТ   
   | C A J   | A T   | C C   | GG  
  | A A  | GG  | GA.                           | A A  | A A  | TT   | G A   | A T  | I A  | TG  | TTA   | 14352VA.CDS17.II   
   |
| 2150  | ATCTI   | TTA   | T.T.C.   | A A A   
  | A C   | A G  | A A   | T T  | r c 1  | A 2  | T A   | A T  
  | TA  | C T 1   | ľ Ť Ť  
   | C. A. J   | A A T   | C C   | - G   
  | A A  | G G (   | G A                           | A A  | A A  | TT   | GA.   | A T  | TA.  | T G   | T T A   | 16753.CDS17.II-1   
   |
| 2149  | ATCTT   | TTA   | ттс.   | AAA   
  | AT  | _]G  | A A   | ŢŢ   | ГСТ  | A A  | TZ  | AT   
  | TA  | C T   | I T T  
   | CA  | A A T   | C C   | ]G  
  | A A  | GG  | G A                           | AA.  | A A  | ΤT   | GA.   | A T  | T A  | TG  | TTA   | 16753.CDS17.II-2   
   |
| 2166  | ATCTT   | TTA   | ΤΤC.   | AAA   
  | AC  | AG   | AA  | Ť Ť  | гст  | A 2  | ΤA  | AT   
  | TA  | ст  | ГТТ  
   | CAI   | A A T   | c c   | AG  
  | A A  | G G (   | GA.                           | A A  | A A  | ŤΤ   | GA  | A T  | ΤÀ   | ŤĞ  | T T A   | 19791.CDS17.II-2   
   |
| 2152  | ATCT  | TTA   | TTC  | A A A   
  | A.C.  | AA   | A A   | T.T.   | I C I  | A 1  | T 1   | A T  
  | ΤA  | C T 1   | ΓTΤ  
   | CAI   | A A T   | C.C   | AG  
  | A A  | G.G.  | GA.                           | A.A.   | A A  | T.T  | G.A   | A T  | T A  | TG  | TTA   | SP10291.CDS17.II   
   |
| 2162  | ATCAT   | TIA   | T T C  | AAA   
  | A C   | A G  | A A   | T T  | I C C  | A A  | T A   | AT   
  | ΤA  | C T I   | ТΤТ  
   | CA  | A A T   | CC  | GG  
  | A A  | GG  | - A                           | A A  | A A  | T T  | G A   | A T  | T.A.   | TG  | TTA   | 727J.CDS17.II  
   |
| 2165  | ATCTI   | 1 1 A   | 110  | AAA   
  | AC  | AG   | A A   | 1.1.<br>• •  | I-C-1  | AA   | 1 I<br>7 1  | А 1<br>Х Ф   
  | TA  | G I I   | 1 1 I<br>r r 7   
   | CAI   | A A I   | C C   | A G   
  | AA   | 66  | GA.                           | A A  | AA   | T T<br>7 7   | GA  | A I  | I A  | 16  | 1 1 A   | 942J.CDS17.11  
   |
| 2159  | ATCTT   | TTA   | TTC  | AAA   
  | AC  | A G  | AA  | TT   | I C I  | À A  | ΤJ  | AT   
  | TA  | C T   | T T T  
   | C A   | AAT   | čα  | A G   
  | AA   | GG  | G A                           | A A  | AA   | TT   | GA  | A T  | TA   | TG  | TTA   | 2740.CDS17.II-2  
   |
| 2166  | ATCAT   | TTA   | TTC  | A A A   
  | A <u>C</u>  | <u>A</u> G   | ΑA  | T T  | E C C  | A 2  | TA  | AT   
  | ΤA  | CT 1  | T T I  
   | CA J  | A A T   | CC  | A G   
  | ΑA   | G G   | TA.                           | A A  | A A  | ΤТ   | G A   | A T I  | ΤA   | TG  | TTA   | 7447VA CDS17.II  
   |
| 2151  | ATCTT   | TTA   | TTC  | A A A   
  | <u>A</u> –  | - <u>G</u>   | A A   | T I I  | r c t  | A. A   | T A   | A.T.   
  | TA  | C T   | I T T  
   | CA J  | A A T   | C C   | - G   
  | A A  | G G   | - A                           | A A  | A A  | T T  | GA  | A.T.   | ΤA   | ΤĢ  | T T A   | 10936VA.CDS17.II   
   |
|   | сталт   | тсл   | тса  |   
  | 6.0   | A C  | 7 7   | אדר  | ттл  | . т т  | 6.7   | c c  
  | C 7   | <b>лт</b> 7   |  
   | тс  |   | тλ  | e c   
  | λт   | тл  | с л ·                         | тт   | тт   | ст   | тт  | GNO  | G 7  | та  | C N G   | Majority   
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  | UN.   | <u></u>   |  
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  | <u>.</u>   | <u>† ^ `</u>  | <u> </u>                      |  |  | 01   | <u>† † †</u>  | <u>o n (</u>   | <u> </u>   |   | - NO  | _ najorrey   
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|   |   |   | 2250   |   
  |   |  | 2260  | 0  |  |  |   | 2270   
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   | 2280  | )   |   |   
  | 2  | 290   |                               |  |  | 2  | 300   |  |  |   | 231   | 10   
   |
| 2236  | GTAAT   | TGA   | TGA  | A G C   
  | GC  | A C  | A A   | A T  | I I A  | ΙI   | G J   | C C  
  | CA.   | AT 2  | A A A  
   | TC  | C G A   | ΤA  | GC  
  | ΑT   | T A I   | G A                           | ΓT   | TT   | GΤ   | TT  | GA (   | G A  | T A   | CAG   | 12256U.CDS17.II-1  
   |
| 2236  | GTAAT   | TGA   | TGA  | AGC   
  | 6 C   | A.C.   | A A   | AT   | F.T.A  | - T - I  | GA  | С.С.   
  | CA.   | ATI   | A.A.A.   
   | TC  | GA  | TA  | GC  
  | AT   | TA  | S.A.                          | I I  | TT   | GT   | TT  | GAO  | GA.  | TA  | CAG   | 12256U.CDS17.II-2  
   |
| 2219  | GTAAT   | TGA   | TGA  | AGC   
  | GC  | A C  | A A   | A T  | ГТА  | ÎΤΤ  | G A   | сċ   
  | Č A   | A T J   | AA   
   | T C (   | C G A   | TA  | GC  
  | A T  | TA  | GA                            | ΤT   | τŤ   | GT   | ΤT  | GA (   | GA   | TÂ  | CAG   | 16753.CDS17.II-1   
   |
| 2217  | GTAAT   | TGA   | TGA.   | A G C   
  | G C   | A C  | AA  | A T  | T A  | TI   | G A   | C C  
  | CA.   | A T J   | AA   
   | TC  | CGA   | ŤΑ  | G C   
  | A T  | TA  | G A                           | ΤT   | T T  | GT   | TT  | GA   | GΑ   | T A   | C A G   | 16753.CDS17.II-2   
   |
| 2237  | GTAAT   | TGA   | T G A  | A G C   
  | G C   | A C  | A A   | A T  | T T A  | 11   | G A   | C C  
  | C A   | AT.   | A A A  
   | TCA   | C G A   | ΤA  | GC  
  | A T  | TA)   | G.A.                          | Г.Т  | T T  | G T  | T T   | G.A. (   | G.A.   | T A   | C A G   | 19791.CDS17.II-1   
   |
| 2236  | GTAAI   | TGA   | T.G.A.   | AGC   
  | GC  | A C  | A A   | AT   | I I A  |  | G A   | C C  
  | CA.   | ATI   | 4 A A  
   | TC  | G A   | TA  | 6.0   
  | AT   | TA  | 6 A                           |  | 1 I.   | GT   | TT  | GAO  | G A  | 1 4   | CAG   | 19791.CDS17.11-2   
   |
| 2231  | GTAAT   | TGA   | TGA  | AGC   
  | ΓÂΙς.   | аT   | A A   | A T  | ΙΤΑ  | T 1  | G J   | c c  
  | C A   | A T I   | AAA  
   | TC  | CGA   | ΤA  | GC  
  | GT   | T A I   | GA                            | ΤT   | тт   | GT   | ΤŤ  | GA (   | G A  | T A   | CAG   | 727J.CDS17.II  
   |
| 2235  | GIAAI   | TGA   | TGA  | A G C   
  | G C   | A C  | A A   | A T  | I T A  | . T 1  | G 1   | C C  
  | CA.   | AT 1  | AA   
   | T.C.(   | C.G.A   | TA  | G.C.  
  | A T  | TA  | G A                           | T T  | ΤT   | G T  | ΤT  | GA (   | GA.  | TA  | C.A.G   | 942J.CDS17.II  
   |
| 2232  | GTAAT   | TGA   | TGA  | A G C   
  | GC  | A C  | A A   | A T  | I.T.A  | T.T  | G A   | CC   
  | CA.   | A.T. /  | A A A  
   | TC (  | C G A   | TA  | GC  
  | A T  | T.A.  | G.A.                          | TT   | TT   | G T  | TT  | GA (   | GA.  | TA  | C A G   | 2740.CDS17.II-1  
   |
| 2229  | GIAAI<br>CTAAI  | TGA   | 16A.<br>76X  | AGC   
  | GC  | AC   | AA  | A 1  | I I A  | 1 1<br>• • •   | 6 A   |  
  | CA.   | ATI   | AAA  
   |   | C G A   | ΙA<br>Ψλ  | 60  
  | A T  | TA  | 6 A<br>0 A                    | 1 I<br>1 T   | 1 1<br>• •   | 6 I<br>6 T   | 1 1   | GAO  | 6 A<br>0 A   | TA  | CAG   | 2740.CDS17.11-2  
   |
| 2217  | GIAAI   | TGA   | TGA  | AGC   
  | GC  | A C  | AA  | AT   | T T A  | TT   | G 1   | c c  
  | C A   | A T J   | AAA  
   | TCI   | GA  | TA  | G C   
  | A T  | TA  | G A                           | İΤ   | TT   | G T  | Ť Ť   | GA (   | G.A.   | TA  | clole   | 10936VA.CD517.II   
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   |
|   | CTAAA   | ACA   | ATAI   | AGA   
  | AA  | AT   | AT  | CGI  | AGG  | ; A A  | TG  | ТТ   
  | AG  | TG1   | ГТG  
   | GGI   | AAC   | GC  | AA  
  | AA   | TTI   | гта                           | A T  | GG   | АT   | ТТ  | TAJ  | A T  | CA  | AAA   | _ Majority   
   |
|   | CTAAA   | ACA   | ATA:<br>2320   | AGA   
  | AA  | <u>A T</u>   | <u>A T</u><br>2330  | <u>C G 1</u><br>D  | A G G  | ; A A  | TG  | <u>T T</u><br>2340   
  | AG  | TGI   | ΓŢG  
   | <u>G G 1</u><br>2350  | AAC   | GC  | AA  
  | <u>A A</u><br>2  | <u>T T 1</u><br>360   | ΓT                            | A T  | GG   | <u>A T</u><br>2  | <u>тт</u><br>370  | TAJ  | A T  | C A   | <u>A A A</u><br>238   | _ Majority   
   |
| 2306  | CTAAA   | ACA   | ATA<br>2320  | AGA   
  | A A   | A T  | A T<br>2330   | <u>CG</u><br>0   | AGG  | AA   | T G   | <u>T T</u><br>2340   
  | AG  | TGI   | ITG<br>TG  
   | G G 1<br>2350   | AAC   | GC  | A A   
  | <u>A A</u><br>2<br><u>A A</u>  | <u>T T 1</u><br>360   | гт;<br>totoo                  | A T  | GG   | <u>A T</u><br>2  | <u>тт</u><br>370  | TAJ  | A T  | CA  | A A A<br>235  | _ Majority<br>30   
   |
| 2306<br>2306  | CTAAA<br>CTAAA<br>CTAAA   | A C A<br>A C A<br>A C A   | ATA:<br>2320<br>ATA:<br>ATA:   | AGA<br>AGA<br>AGA   
  | A A<br>A A<br>A A   | A T<br>A T<br>A T  | A T<br>2330<br>A T<br>A T   | <u>CG</u><br>0<br>CG<br>2  | AGG<br>AGG   | A A<br>A A   | T G<br>T G  | T T<br>2340<br>T T<br>T T  
  | AG<br>AG<br>AG  | TG1<br>TG1<br>TG1   | TTG<br>TTG   
   | G G 1<br>2350<br>G G 1<br>G G 1   | AAC<br>AAC  | G C<br>G C<br>G C   | A A<br>A A<br>A A   
  | A A<br>2<br>A A<br>A A   | TT<br>360<br>TT   | <u>гті</u><br>1. Т.<br>1. Т.) | A T<br>A T<br>A T  | GG<br>GG<br>GG   | <u>A T</u><br>2<br>A T<br>A T  | T T<br>370<br>T T<br>T T  | TAJ<br>TAJ<br>TAJ  | AT<br>AT   | CA<br>CA<br>CA  | A A A<br>238<br>A A A<br>A A A  | _ Majority<br>80<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2   
   |
| 2306<br>2306<br>2298  | CTAAA<br>CTAAA<br>CTAAA<br>CTAAA  | ACA<br>ACA<br>ACA<br>ACA  | <u>ATA</u><br>2320<br>ATA<br>ATA<br>ATA  | AGA<br>AGA<br>AGA<br>AGA  
  | A A<br>A A<br>A A<br>A A  | A T<br>A T<br>A T<br>A T   | <u>A T</u><br>2330<br>A T<br>A T<br>A T   | <u>CG</u><br>0<br>CG<br>1<br>CG<br>1<br>CG<br>1  | A <u>G</u><br>AG<br>G<br>AG<br>G   | A A  | T G   | T T<br>2340<br>T T<br>T T<br>T T   
  | AG<br>AG<br>AG<br>AG  | T G 1<br>T G 1<br>T G 1<br>T G 1  | ITG<br>ITG<br>ITG<br>ITG   
   | G G 1<br>2350<br>G G 1<br>G G 1<br>G G 1  | A A C<br>A A C<br>A A C<br>A A C  | GC<br>GC<br>GC<br>GC  | AA<br>AA<br>AA<br>AA  
  | A A<br>2<br>A A<br>A A<br>A A  | T T :<br>360<br>T T :<br>T : T :<br>T : I                                   | ITI<br>ITI<br>ITI             | AT<br>AT<br>AT   | GG<br>GG<br>GG<br>GG   | <u>A T</u><br>2<br>A T<br>A T<br>A T   | T T<br>370<br>T T<br>T T<br>T T   | TAJ<br>TAJ<br>TAJ  | AT<br>AT<br>AT   | CA<br>CA<br>CA  | <u>A A A</u><br>238<br>A A A<br>A A A<br>A A A  | _ Majority<br>80<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II   
   |
| 2306<br>2306<br>2298<br>2289  | CTAAA<br>CTAAA<br>CTAAA<br>CTAAA<br>CTAAA<br>CTAAA  | ACA<br>ACA<br>ACA<br>ACA  | <u>ATA</u><br>2320<br>ATA<br>ATA<br>ATA<br>ATA   | AGA<br>AGA<br>AGA<br>AGA  
  | A A<br>A A<br>A A<br>A A<br>A A<br>A A  | AT<br>AT<br>AT<br>AT<br>AT<br>AT   | <u>A T</u><br>2330<br><u>A T</u><br>A T<br>A T<br>A T<br>A T  | C G J<br>0<br>C G J<br>C G J<br>C G J<br>C G J   | AGG<br>AGG<br>AGG<br>AGG<br>AGG  | A A<br>A A<br>A A<br>A A<br>A A                                    | TG<br>TG<br>TG<br>TG  | T T<br>2340<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  
  | AG<br>AG<br>AG<br>AG<br>AG  | T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1   | ITG<br>ITG<br>ITG<br>ITG<br>ITG  
   | G G J<br>2350<br>G G J<br>G G J<br>G G J<br>G G J   | A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C  | GC<br>GC<br>GC<br>GC  | AA<br>AA<br>AA<br>AA<br>AA  
  | A A<br>2<br>A A<br>A A<br>A A<br>A A<br>A A  | T T :<br>360<br>T T<br>T T<br>T T<br>T T<br>T T                             |                               | AT<br>AT<br>AT   | <u>G G</u><br>G G<br>G G<br>G G<br>G G   | <u>A T</u><br>2<br>A T<br>A T<br>A T<br>A T<br>A T   | T T<br>370<br>T T<br>T T<br>T T<br>T T<br>T T   | TAJ<br>TAJ<br>TAJ<br>TAJ   | AT<br>AT<br>AT<br>AT   | CA<br>CA<br>CA<br>CA  | A A A<br>235<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A   | _Majority<br>30<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1  
   |
| 2306<br>2306<br>2298<br>2289<br>2287<br>2307  | <u>C T A A A</u><br>C T A A A<br>C T A A A  | ACA<br>ACA<br>ACA<br>ACA<br>ACA<br>ACA  | <u>ATA</u><br>2320<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA  | AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA  
  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT   | AT<br>2330<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT  | C G J<br>C G J<br>C G J<br>C G J<br>C G J<br>C G J<br>C G J  | AGG<br>AGG<br>AGG<br>AGG<br>AGG<br>AGG   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A | TG<br>TG<br>TG<br>TG<br>TG  | T T<br>2340<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  
  | AG<br>AG<br>AG<br>AG<br>AG<br>AG<br>AG  | T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1  | ITG<br>ITG<br>ITG<br>ITG<br>ITG<br>ITG   
   | G G J<br>2350<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J   | A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C   | G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C   | AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA<br>AA  
  | A A<br>2<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | T T 1<br>360<br>T T<br>T T<br>T T<br>T T<br>T T                             |                               | AT<br>AT<br>AT<br>AT<br>AT<br>AT   | <u>G G</u><br>G G<br>G G<br>G G<br>G G<br>G G  | A T<br>2<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | <u>T</u> T<br>370<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T   | TAJ<br>TAJ<br>TAJ<br>CAJ<br>TAJ<br>TAJ   | AT<br>AT<br>AT<br>AT<br>AT   | CA<br>CA<br>CA<br>CA<br>CA<br>CA  | A A A<br>235<br>A A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1   
   |
| 2306<br>2398<br>2289<br>2287<br>2307<br>2306  | <u>C T A A A</u><br>C T A A A<br>C T A A A  | A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A   | ATA<br>2320<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA  | AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA   
  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T                         | A T<br>2330<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | C G J<br>C G J<br>C G J<br>C G J<br>C G J<br>C G J<br>C G J  | AGG<br>AGG<br>AGG<br>AGG<br>AGG<br>AGG   |  | T G<br>T G<br>T G<br>T G<br>T G<br>T G  | T T<br>2340<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T   
  | AG<br>AG<br>AG<br>AG<br>AG<br>AG<br>AG<br>AG<br>AG  | I G 1<br>I G 1<br>I G 1<br>I G 1<br>I G 1<br>I G 1<br>I G 1<br>I G 1  | ITG<br>ITG<br>ITG<br>ITG<br>ITG<br>ITG<br>ITG  
   | G G J<br>2350<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J<br>G G J   | AAC<br>AAC<br>AAC<br>AAC<br>AAC<br>AAC<br>AAC   | G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   
  | A A<br>2<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | T T :<br>360<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T                      |                               | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT   | <u>G G</u><br>G G<br>G G<br>G G<br>G G<br>G G<br>G G   | <u>A T</u><br>2<br><u>A T</u><br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | T T<br>370<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T   | TAJ<br>TAJ<br>CAJ<br>TAJ<br>TAJ<br>TAJ   | AT<br>AT<br>AT<br>AT<br>AT<br>AT                                   | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA                                    | A A A<br>235<br>A A A<br>A A A   | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-2  
  |
| 2306<br>2306<br>2298<br>2289<br>2287<br>2307<br>2306<br>2292  | <u>СТААА</u><br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА  | A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A  | ATA<br>2320<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA  | AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA  
  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T                                | A T<br>2330<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | C G J<br>C G J<br>C G J<br>C G J<br>C G J<br>C G J<br>C G J<br>C G J   | AGG<br>AGG<br>AGG<br>AGG<br>AGG<br>AGG<br>AGG  |  | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G  | T T<br>2340<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  
  | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1   | ITG<br>ITG<br>ITG<br>ITG<br>ITG<br>ITG<br>ITG  
   | G G J<br>2350<br>6 G J<br>6 G J<br>6 G J<br>6 G J<br>6 G J<br>6 G J<br>6 G J  | AAC<br>AAC<br>AAC<br>AAC<br>AAC<br>AAC<br>AAC<br>AAC  | G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  
  | A A<br>2<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A  | T T :<br>360<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T               |                               | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT   | <u>G G</u><br>G G<br>G G<br>G G<br>G G<br>G G<br>G G<br>G G<br>G G<br>G G  | A T<br>2<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T  | T T<br>370<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T  | TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T               | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA                              | A A A<br>235<br>A A A<br>A A A   | Majority<br>20<br>22256U.CDS17.II-2<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-1<br>19791.CDS17.II-2<br>5910291.CDS17.II  
  |
| 2306<br>2298<br>2289<br>2287<br>2306<br>2292<br>2301<br>2305  | <u>СТААА</u><br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА   | A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A  | ATA<br>2320<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>AT   | AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA  
  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T                         | A T<br>233(<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T   | C G J<br>C G J<br>C G J<br>C G J<br>C G J<br>C G J<br>C G J<br>C G J<br>C G J  | A G G<br>A G G<br>A G G<br>A G G<br>A G G<br>A G G<br>A G G<br>A G G<br>A G G<br>A G G   |  | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G   | T T<br>2340<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T  
  | AG<br>AG<br>AG<br>AG<br>AG<br>AG<br>AG<br>AG<br>AG<br>AG<br>AG  |   |  
   | G G J<br>2350<br>G G J<br>G G J  |   |   | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   
   | A A<br>2<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A  | T T<br>360<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T          |                               | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T                                |  | <u>A T</u><br><u>2</u><br><u>A T</u><br><u>A T</u><br><u>A T</u><br><u>A T</u><br><u>A T</u><br><u>A T</u><br><u>A T</u><br><u>A T</u><br><u>A T</u><br><u>A T</u>   | <u>T</u> T<br>370<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T   | TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T        | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA                        | A A A<br>230<br>A A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A A<br>A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A A<br>A A A A A A<br>A A A A A A<br>A A A A A A<br>A A A A A A A<br>A A A A A A A<br>A A A A A A<br>A A A A A A A<br>A A A A A A A A<br>A A A A A A A A A<br>A    | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>14552X.CDS17.II<br>14753.CDS17.II-1<br>14753.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-1<br>19791.CDS17.II<br>7273.CDS17.II<br>7273.CDS17.II   
  |
| 2306<br>2298<br>2289<br>2287<br>2307<br>2306<br>2292<br>2301<br>2305<br>2302  | <u>СТААА</u><br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА<br>СТААА   | A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A  | ATA<br>2320<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>AT   | AGA<br>AGA<br>GA<br>GA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA<br>AGA  
  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A  | A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T                         | A T<br>2330<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T   |  | AGG<br>AGG<br>AGG<br>AGG<br>AGG<br>AGG<br>AGG<br>AGG<br>AGG  |  | T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G<br>T G  | T T<br>2340<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T  
  | A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G<br>A G  | T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1<br>T G 1   |  
   | G G J<br>2350<br>G G J<br>G G J  | A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C<br>A A C | G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A   
   | AA<br>2<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | T T<br>360<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T   |                               | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT   |  | <u>A T</u><br>2<br><u>A</u> T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A T<br>A  | T T<br>370<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T T<br>T  | TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ<br>TAJ   | AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT<br>AT                 | CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA<br>CA            | A A A<br>235<br>A A A<br>A A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A<br>A A A A<br>A A A<br>A A A A<br>A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A A<br>A A A A A A<br>A A A A A A<br>A A A A A A<br>A A A A A<br>A A A A A A<br>A A A A A A<br>A A A A A A<br>A A A A A A A<br>A   | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-2<br>SP10291.CDS17.II-2<br>SP10291.CDS17.II<br>9423.CDS17.II<br>9423.CDS17.II-1<br>2740.CDS17.II-1   
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| 2306<br>2298<br>2287<br>2307<br>2306<br>2292<br>2301<br>2305<br>2302<br>2302<br>2302<br>2306<br>2287  | <u>C T A A A</u><br>C T A A A<br>C T A A A  | A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A  | ATA<br>2320<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>ATA<br>AT   | A G A<br>A G A<br>A G A<br>A G A<br>A G A<br>A G A<br>A G A<br>A G A<br>A G A<br>A G A<br>A G A<br>A G A<br>A G A<br>A G A<br>A G A<br>A G A  
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  | G G J<br>2350<br>G G J<br>G G J   |   | G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C<br>G C  | A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A A<br>A<br>A A<br>A<br>A A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A<br>A   | A A<br>2<br>A A A<br>A
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Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-2<br>12356U.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>10936VA.CDS17.II<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12556U.CDS17.II-1<br>14573.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19791.CDS17.II-2<br>19702.CDS17.II-2<br>19702.CDS17.II-2<br>19702.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.CDS17.II-2<br>102502.   |
| 2306<br>2298<br>2289<br>2287<br>2306<br>2292<br>2301<br>2305<br>2302<br>2376<br>2376<br>2377<br>2377<br>2376<br>2372<br>2372<br>237   |   | A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A<br>A C A C  | A T A .<br>2220<br>A T A .<br>A .<br>T A .<br>A .<br>T C .<br>T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T C .<br>T   |  | A A<br>A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A<br>A A A A A A<br>A A A A A A
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  |   |                               |  | G G G G G G G G G G G G G G G G G G G  | A T<br>2<br>TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT   | T T<br>370<br>TTTTTTTTTTTTTTTTT<br>A40<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   |  |  | CA<br>CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC                                       |   |
Majority<br>12560.CDS17.II-1<br>12550.CDS17.II-2<br>14352VA.CDS17.II-1<br>14753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10350.CDS17.II-1<br>12256U.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19740.CDS17.II-1<br>19740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>2740                       |
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Majority<br>12560.CDS17.II-1<br>12550.CDS17.II-2<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>2740.CDS17.II-1<br>2740.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>12256U.CDS17.II-1<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19740.CDS17.II-1<br>19740.CDS17.II-1<br>19740.CDS17.II-1<br>19740.CDS17.II-1<br>19740.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>14452VA.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737.CDS17.II-1<br>10737                                     |
| 23066<br>23086<br>2289<br>2287<br>2307<br>2302<br>2302<br>2302<br>2302<br>2302<br>2377<br>2377  |   |   | A T A A<br>2320<br>A T A<br>A T A A T A<br>A T A A T A<br>A T A A T A<br>A T A A T A<br>A T A A T A<br>A T A A T A<br>A T A A T A<br>A T A A T A<br>A T A A T A<br>A T A A T A<br>A T                    |  | AA<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | A T<br>A A A A A A A A A A A A A A A A A A   | A T<br>2333<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   |  |  |  | T T T T T T T T T T T T T T T T T T T   | TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  |   | T G 1 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  |  | G G J<br>2350<br>6 G J<br>6 G J<br>6 G J<br>6 G J<br>6 G J<br>7 G G S<br>6 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7 G S<br>7  |   | G C<br>ACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC   | A A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | A 2 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   |   |                               |  | G GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG   | A 2<br>AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA   | I 370 TTTTTTTTTTTTTTTT<br>A 40 AAAAAAAAAAAAAAA G 0 000000000000000  | T A J J TTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTT   |  | C A CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC  | A         A         A           23         A         A           34         A         A           24         T         T           34         A         A           24         T         T           34         A         A           24         T         T           35         T         A           25         T         T           34         A         A           25         T         T           34         A         A           25         T         T           34         A         A           25         A         T           34         A<  | Majority<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>12256U.CDS17.II-1<br>14352VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-2<br>19791.CDS17.II-1<br>1970.CDS17.II-1<br>1740.CDS17.II-1<br>1740.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>19791.CDS17.II-1<br>19791.CDS17.II-1<br>1936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>10936VA.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>16753.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS17.II-1<br>1727J.CDS                                   |

	TTTTATC	TTCTG	CTCCGATI	TGGGGGCGGAA	ATATTATCCAT	TGATAACACA	A C A A G A T T T C A A T 1	CGAATC Majority
		2530	25	540 25	50 256	0 2570	2580	2590
2516	TTTTATC	TTCTG	CTCCGATI	TGGGGGGCGGAA	ATATTATCCAC	TGATAACACA	ΑΓΑΑΓΑΤΤΟΑΑΤΙ	C G A A T C 12256U.CDS17.II-1
2516	TTTTATC	TTCTG	CTCCGATI	TGGGGGCGGAA	ATATTATCCAC	TGATAACACA	A C A A G A T T T C A A T 1	C G & A T C 12256U.CDS17.II-2
2504	TTTTATC	TTCTG	CTCCAATO	CGGGGGGGGGAA	ATATTATCCAT	TGATAACACA	ACAAGATTTCAAT1	C G A A T C 14352VA.CDS17.II
2497	TTTTATC	TTCCG	CCTGATTO	GGGGGG-CGGAA	ΑΤΑΤΤΑΤΟΟΑΤ	TGATAACACA	ACAAGATITCAATI	C G A A T C 16753.CDS17.II-1
2494	TTTTATC	TTCAG	CTCTGATI	TGGGGG-CGGAA	ATATTATCCAT	TGATAACACA	ACAAGATTTCAATI	C G A A T C 16753.CDS17.II-2
2517	TTTATC	TTCTG	CTCCGATI	TGGGGGGCGGAA	ATATTATCCAC	TGATAACACA	ACARGATTTCARTY	C G A A T C 19791.CDS17.II-1
2516	TTTTATC	TTCTG	CTCCGATI	TGGGGGCGGAA	ATATTATCCAC	TGATAACACA	ACAAGATTTCAAT	C.G.A.A.T.C 19791.CDS17.II-2
2502	TTT-ATC	TTCTG	CTCCGATI	TGGGG-TGGAA	ATATTATCAAT	CGATAACACA	ACAAGATTTCAATI	C G A A T C SP10291.CDS17.II
2511	TTTTATC	ТТСТБ	CTCCAATO	C G G G G - C G G A A	ататтатссат	T G A T A A C A C A	АСААБАТТТСААТТ	C G A A T C 727J.CDS17.II
2515	TTTTATC	TTCTG	CTCCGATI	TGGGGGTGGAA	ATATTATCAAT	CGATAACACA	L C A A G A T T T C A A T 1	C G A A T C 942J.CDS17.II
2512	TTTTATC	TTCTG	CTCCGATI	TGGGG-CGGAA	ATATTATCCAT	TGATAACACA	ACAAGATTTCAAT1	C G A A T C 2740.CDS17.II-1
2509	TTTTATC	TTCTG	CTCCGATI	TGGGG-CGGAA	ATATTATCCAT	TGATAACACA	A C A A G A T T T C A A T 1	C G A A T C 2740.CDS17.II-2
2516	TTTTATC	TTCTG	CTCCGATI	TGGGGGTGGAA	АТАТТАТСААТ	CGATAACACA	АСААБАТТТСААТ 1	C G A A T C 7447VA CDS17.II
2494	TTTTATC	TCCCC	TCCGATTO	GGGGGG-CGGAA	A T A T T A T C C A T	TGATARCACA	ACARGRTTTCARTS	C G A & T C 10936VA.CDS17.II
	TTATTAC	AATGA	ATTAGAAA	AGAAAATTATT	ГАТТТААСААТ	GGCGATTTAA	AAGCAATTGCAAAT	(AATTAA Majority
		2600	26	610 262	20 263	0 2640	2650	2660
2586	TTATTAC	AATGA	ATTAGAAJ	AGAAAATTATT	IATTTAACAAT	GGCGATTTAA	AAGCAATTGCAAA	A A T T A A 12256U.CDS17.II-1
2586	TTATTAC	AATGA	ATTAGAAA	AGAAAATTATT	ТАТТТААСААТ	GGCGATTTAA	AAGCAATTGCAAAT	AATTAA 12256U.CDS17.II-2
2574	TTATTAC	AATGA	ATTAGAAJ	AGAAAATTATT	ТАТТТААСААТ	GGCGATTTAA	AAGCAATTGCAAA	AATTAA 14352VA.CDS17.II
2566	TTATTAC	AATGA	ATTAGAAJ	AGAAAATTATT	TATTTAACAAT	GGCGATTTAA	AAGCAATTGCAAA	A A T T A A 16753.CDS17.II-1
2563	TTATTAC	AATGA	ATTAGAAJ	AGAAAATTATT	TATTTAACAAT	GGCGATTTAA	AGCAATIGCAAA	AATTAA 16753.CDS17.II-2
2587	TTATTAC	AATGA	ATTAGAAA	AGAAAATTATT	ΤΑΤΙΤΑΑΓΑΑΤ	GGCGATTTAA	AAGCAATTGCAAA	A A T T A A 19791.CDS17.II-1
2586	TTATTAC	AATGA	ATTAGAAZ	AGAAAATTATT	ΤΑΤΤΤΑΑСΑΑΤ	GGCGATTAA	A A G C A A T T G C A A A T	F A A T T A A 19791.CDS17.II-2
2570	TTATAC	AATGA	ATTAGAAJ	AGAAAATTATT	TATTTAACAAT	GGCGATTTAA	AAGCAATTGCAAA1	CAATTAA SP10291.CDS17.II
2580	TTATTAC	AATGA	ATTAGAAA	AGAAAATTATT	TATTTAACAAT	GGCGATTTAA	AAGCAATTGCAAA1	AATTAA 727J.CDS17.II
2585	TTATTAC	AATGA	ATTAGAAA	AGAAATTATT	ГАТТТААСААТ	GGCGATTTAA	AAGCAATIGCAAAI	AATTAA 942J.CDS17.II
2581	TTATTAC	A A T G A	ATTAGAAJ	AGAAAATTATT	ТАТТТААСААТ	GGCGATTTAA	ΑΑGCΑΑΤΤGCΑΑΑΙ	[ A A T T A A 2740.CDS17.II-1
2578	TTATTAC	AATGA	ATTAGAAJ	AGAAAATTATT	TATTTAACAAT	GGCGATTTAA	AAGCAATTGCAAA	I A A T T A A 2740.CDS17.II-2
2586	TTATAC	AATGA	ATTAGAAJ	AGAAAATTATT	татттаасаат	GGCGATTTAA	AGCAATTGCAAA	AATTAA 7447VA CDS17.II
2563	TTATTAC	AATGA	ATTAGAAZ	AGAAAATTATT	ΙΑΤΙΤΑΑΟΑΑΤ	GGCGATTTAA	AAGCAATTGCAAA	AATTAA 10936VA.CDS17.II

<u>A T G C T T C A A A - A T A A A A A Ț T A G C - - - A G A T A A A A A T T Ă A C A A T A T G A Ă G A A A T A T A C A G T T T T - - - 6</u> Majority 30 40 60 10 20 50 70 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 942J.dcm 10936VA.dcm 12256U.dcm \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ 14352VA.dcm 18847.dcm - - - - - - - - -19791.dcm 21127.dcm-1 14352VA.CDS17.I 18847.CDS17.I 19791.CDS17.I 10047.00517.1 21127.CD517.1 21127.CD517.1-2 21127.CD517.1-2 21127.CD517.1-3 FBG.CD517.1-1 FBG.CD517.1-3 FBG.CD517.1-3 SF10291.CD517.1 12354U.CD517.11 12354U.CD517.11 12355U.CD517.11-1 2255U.CD517.11-1 4352XPA.CD517.11-1 6753.CD517.11-1 16753.CD517.11-1 19791.CD517.11-1 17271.CD517.11-1 727J.CDS17.II 942J.CDS17.II 2740.CDS17.II-1 2740.CDS17.II-2 7447VA CDS17.II A T T T T G T A A T A T T T T T T G C A A T A A T A G C A T T A G C A A T T G T T T T A A G C - - - G G T T T T A - C T A A T A A A T T - A Majority 120 130 140 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 CD10201.dcm SP10291.dcm 942J.dcm 10936VA.dcm 12256U.dcm 14352VA.dcm 18847.dcm 19791.dcm 

Tabelle 16: Sequenzalignment der *dcm*-homologen Gene und der CDS17.I- und CDS17.II-Gene der ICEHo-I- und/oder ICEHo-II-positiven *M. hominis*-Isolate.

	ATTGAAAATTTAAAATAG	CAATATTC	ATAACATTTAT-	<u>C T T T C</u>	AACATTTTGAATATTGTTAT	A Majority
	150	160	170	180 2	190 200 2	10
1						- 21127 dcm-2
1						- 21127.dcm-2
1			프 프 프 프 프 프 프 =			- FBG.dcm-1
1						- FBG.dcm-2
1			説			- FBG.dcm-3
1			89			- SP10291.dcm
1			[ ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ]			- 942J.CCM - 10936VA dom
î						- 12256U.dcm
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1						- 21127.dcm-1
140	ACTOR TRAATATICA ATTITCT	TTGCANTTT TTCCANTTT	TOXXTXCCTAC	TTATATAGG	ARTIALUTILA ALALA ALALA CCAA	A 14352VA.CDS17.1
140	ATG T G A A A TT T T T T T T T T T T T T	TTGCATT	TGANATACCTAC	TTOTOTATAGG	AATTA TTTTTTAATAA TGCCAA	A 19791.CDS17.T
139	ATGIGAAATTAATTICI	TTGCATTT	TGAATACCTAC	TTTTATTGGG	AATTATTTTAATAATGCCAA	A 21127.CDS17.I-1
140	ATGTGAAATTAATTTCI	TTGCATT	TGAATACCTAC	TTTTTATTGGG	A A T T A T T T T A A T A A T G C C A A	A 21127.CDS17.I-2
140	ATGIGAAATTAATTICI	TTGCANTTT	TGĂĂTĂCCTĂC	TTTTTGGG	AATTATTTAATAATGCCAA	A 21127.CDS17.I-3
140	ATGIGAAATTTAATTICI	TTGCANTTT	IGAATACCTACT	TTTTATAGG	AATTATTTTAATGCCAA	A FBG.CDS17.I-1
140	A T G T G A A A T T A A T T T T T C 1	TTGCATTT	IGAATACCTACT	TTTTATTAGG	AATTAATGCCAA	A FBG.CDS17.I-2
140				TANKATATAGG		A FBG.CD517.1-3
140	ATG T G A A A TT T A ATT T T TC 1	TTGCATT	TGANATACCTAC	TTTTTTATTAGG	AATTA TOTTTAATAA TOGCCAA	A 942J.CDS17.T
139	ATGTGAAATTAATTTC	TTGCATTT	TGAATACCTACT	TTTTAGG	AATTATTTAATAATGCCAA	A 10936VA.CDS17.I
140	ATGTGAAATTAATTTCI	TTGCATTT	TGAATACCTACA	TTTTTATTAGG	AATTATTTTAATATTACCAA	A 12256U.CDS17.I
131	ATTGAAAATTTAAAATA	CAATATTC	ATAACATTTATT	CTTTC	AACATITIGAATATIGITAT	A 10936VA.CDS17.II
131	ATIGAAAATTIAAAATA	CAATATTC	ATAACATTTAT	C T I I C	A A C A T I T I G A A I A I I G I I G I	A 12256U.CDS17.II-1
131	ATTGAAAATTTAAAATA	CAATATIC.	ATAACATTTATT	CTITTTT	AACATITIGAAIATATIGTIGI	A 12256U.CDS17.II-2
131	ATIGAAAATITAAAATA(	CARTRTTC		C T T T C	A A C A T T T T G A A T A T T G T T[G]T	A 14352VA.CDS17.II
130					A H C H I T I T G H A T A T I G I T A T	A 16753.CD517.11-1
131	ATTGAAAATTTAAAATA	CAATATTC	ATAACATTTATT	C T T T C	AACATTTTGAATATTGTTGT	A 19791.CDS17.II-1
131	ATTGAAAATTTAAAATAG	CAATATTC	ATAACATTTATT	CTTT++++C	AACATTTTGAATATTGTTGT	A 19791.CDS17.II-2
128	ATTGAAAATTTAAAATA	CAATATTC	ATAACATTTATT	C T T T C	AACATTTTGAATATTGTTAT	A SP10291.CDS17.II
130	ATIGAAAATTIAAAATA	CAATATTC	ATAACAITIAI	C T I I C	A A C A T I T I G A A I A I I G I I A I	A 727J.CDS17.II
131	ATTGAAAATTTAAAATA	CAATATTC	ATAACATTTATT	CTITTT	AACATITIGAATATIGTIAT	A 942J.CDS17.II
131	A TIGAAAA ITIAAAATAU	CARIRIIC.	8 1 8 A C A 1 1 1 A 1 1 5 7 5 5 6 5 7 7 7 5 7 7	C T T T = = = = = = C	ARCRITITGRATATIGTTAT ARCATETECASES TOTESE	A 2740.CDS17.11-1
130						A 7447VA CDS17.11-2
	TTCAAAA ATAATTG	AGATTTA	<u>IGTCCTGG-TTT</u>	TAGAGCCTTT-		G Majority
	<u> </u>	<u>AGATTTTA</u> 230	<u>I G T C C T G G - T T T</u> 240	<u>TAGAGCCTTT-</u> 250 2		G Majority 80
1	<u>T T C A A A A A A T A A T T G T</u> 220 	<u>AGATTTTA</u> 230	<u>IGTCCTGG-TTT</u> 240 	<u>TAGAGCCTTT-</u> 250 2 		G Majority 80 - 21127.dcm-2
1	<u>TICAAAAA - ATAATIGI</u> 220 	<u>AGATTTTA</u> 230	<u>IGTCCIGG-IIT</u> 240	<u>T A G A G C C T T T -</u> 250 2		G Majority 80 - 21127.dcm-2 - 21127.dcm-3 - FBG.dcm-1
1 1 1	<u>T T C A A A A A A T A A T T G T</u> 220 	230	<u>T G T C C T G G - T T T</u> 240 	<u>T A G A G C C T T T -</u> 250 2 	2 A A T A T C T T G T A G	G Majority 80 - 21127.dcm-2 - 21127.dcm-3 - FBG.dcm-1 - FBG.dcm-2
1 1 1 1	<u>T T C A A A A A A T A A T T G T</u> 220 	<u>AGATTTTA</u> 230	<u>I G T C C T G G - T T T</u> 240 	<u>TAGAGCCTTT-</u> 250 2 		G Majority 80 - 21127.dcm-2 - 21127.dcm-3 - FBG.dcm-1 - FBG.dcm-2 - FBG.dcm-3
1 1 1 1 1	<u>T T C A A A A A A T A A T T G T</u> 220 	<u>AGATTTTA</u> 230	<u>IGIÇCIGG-III</u> 240 	<u>T A G A G C C T T T -</u> 250 2 	AAATATCTTGTAG 270 2 	G Majority 80 - 21127.dcm-2 - 21127.dcm-3 - FBG.dcm-1 - FBG.dcm-1 - FBG.dcm-3 - SP10291.dcm
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>     TICAAAAA ATAATIG</u> 220	<u>AGATTTTA</u> 230	<u>T G T C C T G G - T T T T</u> 240 	<u>T A G A G C C T T T -</u> 250 2 	2 A A A Ț A T C T T G T A G 270 2 	G Majority = 21127.dcm=2 = 21127.dcm=3 = FBG.dcm=1 = FBG.dcm=2 = FBG.dcm=2 = SP10291.dcm = 942J.dcm
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>T T C A A A A A A T A A T T G T</u> 220 	A G A T T T T A 230	<u>T G T C C T G G - T T T T</u> 240 	<u>T A G A G C C T T T -</u> 250 2 		G Majority 20127.dcm-2 21127.dcm-3 21127.dcm-3 FB6.dcm-1 FB6.dcm-1 FB6.dcm-3 SF10291.dcm 942J.dcm 1093FVA.dcm
	<u>T T C A A A A A A T A A T T G T</u> 220 	<u>AGATTTTA</u> 230	<u>T G T C C T G G - T T T </u> 240 	<u>T A G A G C C T T T -</u> 250 2 	AAATATCTTGTAG 270 2 	G Majority 20 21127.dcm-2 21127.dcm-2 21127.dcm-3 - FBG.dcm-1 - FBG.dcm-1 - FBG.dcm-3 SP10291.dcm 942J.dcm 10936VA.dcm 12256U.dcm
1 1 1 1 1 1 1 1	<u>TICAAAAA - ATAATIGI</u> 220 	<u>AGATTTTA</u> 230	<u>T G T C C T G G - T T T </u> 240	<u>T A G A G C C T T T -</u> 250 2 	AAATATCTTGTAG	G Majority - 21127.dcm-2 - 21127.dcm-3 - FBG.dcm-1 - FBG.dcm-2 - FBG.dcm-2 - FBG.dcm-3 - 942J.dcm - 109367A.dcm - 12256U.dcm - 12352VA.dcm
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>T T C A A A A A A T A A T T G T</u> 220 	<u>AGATTTTA</u> 230	<u>T G T C C T G G - T T T</u> 240 	<u>T À G À G C C T T T -</u> 250 2 		G Majority 20127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-1 FBG.dcm-3 SP10291.dcm 942J.dcm 1093674.dcm 122567.dcm 1435274.dcm 1435274.dcm
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>T T C A A A A A A T A A T T G T</u> 220 	<u>AGATTTTA</u> 230	<u>IGIÇCIGG-TIT</u> 240 	<u>T A G A G C C T T T -</u> <u>250</u> 2 	AAATATCTTGTAG 270 2 	G Majority 20127.dcm-2 21127.dcm-2 21127.dcm-3 FBG.dcm-3 FBG.dcm-3 SP10291.dcm 9423.dcm 10936VA.dcm 12256U.dcm 14352VA.dcm 14352VA.dcm 14352VA.dcm
1 1 1 1 1 1 1 1 1 1 1 1 1 1 209	TICAAAAA         -         ATAATIG T           220         -	<u>AGATTTTA</u> 230 	<u>T G T C C T G G - T T T</u> 240 	<u>T A G A G C C T T T -</u> 250 2 	<u> АААТАТСТТСТАС</u> <u>270</u> 2 <u></u>	G Majority = 21127.dcm=2 = 21127.dcm=3 = FBG.dcm=1 = FBG.dcm=2 = FBG.dcm=2 = FBG.dcm=3 = SP10291.dcm = 942J.dcm = 12256U.dcm = 12256U.dcm = 1232VA.dcm = 18847.dcm = 18847.dcm = 18847.dcm = 19791.dcm = 14352VA.cCS17.I
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 209 209 209 209	T T C A A A A A A T A A T T G T           220	A G A T T T T T A           230	T G T C C T G G - T T T 240 	<u>T A G A G C C T T T -</u> 250 2 		G Majority = 21127.dcm=2 = 21127.dcm=3 = FBG.dcm=1 = FBG.dcm=2 = FBG.dcm=2 = FBG.dcm=2 = FBG.dcm=3 = SF10291.dcm = 9423.dcm = 122560.dcm = 12325VA.dcm = 12827.dcm=1 = 1847.dcm=1 = 1847.dcm=1 = 1847.dcm=1 C 14352VA.cDS17.I = 1847.CDS17.I = 21127.CDS17.I-2 = 211
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T T C A A A A A A T A A T T G T           220	A G A T T T T T A           230           -	I G I C C I G G - I I T         240	T A G A G C C T T T -         250         2           -		G Majority 20127.dcm-2 21127.dcm-3 21127.dcm-3 FBG.dcm-1 FBG.dcm-1 FBG.dcm-3 SF10291.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 13791.dcm 21127.dcm-1 2171.dcm 21127.dcm-1 21127.dcm-1 21127.dcm-1 C 18594.CDS17.IT C 118647.CDS17.IT 21127.CDS17.IT-2 21127.CDS17.IT-3 C FBG.CDS17.IT-3 C FBG.CDS17.IT-2
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T T C A A A A A A T A A T T G T           220	A G A T T T T T A           230	I G I C C I G G - I I T         240	T À G À G C C T T T -         2           250         2           -         -         -           -         -         -         -           -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -           A		G Majority 20127.dcm-2 21127.dcm-3 PBG.dcm-1 PBG.dcm-1 PBG.dcm-3 SP10291.dcm 109367A.dcm 109367A.dcm 109367A.dcm 109367A.dcm 10937A.dcm 10791.dcm 21127.dcm-1 21127.dcm517.I C 18479.CDS17.I C 11827.CDS17.I-1 C 21127.CDS17.I-2 C 1867.CDS17.I-2 C TBG.CDS17.I-2 C FBG.CDS17.I-2 C FBG.CDS17.I-2
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T T C A A A A A A T A A T T G T           220	A         G         A         T         T         T         A           230         -	I G I C C I G G - T I I         240	T À G À G C C T T T250 2 		G Majority 20127.dcm-2 21127.dcm-3 21127.dcm-3 21127.dcm-3 FB6.dcm-1 FB6.dcm-3 SP10291.dcm 9422.dcm 10936VA.dcm 12226U.dcm 13791.dcm 13791.dcm 13791.dcm 13791.dcm 13791.dcm 13791.dcm 1382VA.cDS17.I 13847.dcm 13847.dcm 21127.CDS17.I 21127.CDS17.I 21127.CDS17.I-3 C FB6.CDS17.I-3 C FB6.CDS1
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1 1 1 1 1 1 1 1 1 1 1 1 1 1	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	A G A T T T T A           230	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	T À G À G C C T T T -           250         2           -	Image: constraint of the	G Majority 20127.dcm-2 21127.dcm-3 PBG.dcm-1 PBG.dcm-1 PBG.dcm-3 SP10291.dcm 942J.dcm 109367A.dcm 109367A.dcm 122560.dcm 18791.dcm 18791.dcm 21127.dcm-1 21127.dcm517.I 21127.dcm517.I 21127.dcm517.I 21127.dcm517.I-1 21127.dcm517.I-2 21127.dcm517.I-2 21127.dcm517.I-2 21127.dcm517.I-2 21127.dcm517.I-2 21127.dcm517.I-2 21127.dcm517.I-2 21127.dcm517.I-2 21127.dcm517.I-2 21127.dcm517.I-2 21127.dcm517.I-2 21127.dcm517.I-2 21127.dcm517.I-2 21128.dcm517.I-2 21129.dcm517.
1 1 1 1 1 1 1 1 1 1 1 1 1 1	T T C A A A A A A T A A T T G T           220	$ \begin{array}{c} A & G & A & T & T & T & T & A \\ \hline 230 \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		<pre>G Majority 20 21127.dcm-2 21127.dcm-3 21127.dcm-3 21127.dcm-3 FB6.dcm-1 FB6.dcm-3 FB6.dcm-3 FB6.dcm-3 SP10291.dcm 9422.dcm 10936VA.dcm 12256U.dcm 13791.dcm 13791.dcm 21127.dcm-1 13791.dcm 21127.dcm-1 13847.dcm 21127.dcm 13791.dcm 1</pre>
1 1 1 1 1 1 1 1 1 1 1 1 1 1	T T C A A A A A A T A A T T G T           220	$\begin{array}{c} A \ G \ A \ T \ T \ T \ T \ A \\ 230 \\ \hline$	<u>I G T C C I G G - T T T</u> 240 	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		G Majority 20127.dcm-2 21127.dcm-2 21127.dcm-3 FBG.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 91221.dcm 10936VA.dcm 12256U.dcm 1382VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 1392VA.dcm 12250V.cm 12250
1 1 1 1 1 1 1 1 1 1 1 1 1 1	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c} A \ G \ A \ T \ T \ T \ T \ A \\ 230 \\ \hline$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	T À G À G C C T T T -         250         - </td <td></td> <td>G Majority 20127.dcm-2 21127.dcm-3 PBG.dcm-1 PBG.dcm-1 PBG.dcm-3 PBG.dcm-3 SP10291.dcm 942J.dcm 109367A.dcm 122560.dcm 123527A.dcm 12791.dcm 21127.dcm-1 21127.dcm-1 21127.dcm517.I 21127.dcm517.I 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21122.50517.I-2 21122.50517.I-1 2122560.CD517.I-1 212560.CD517.I-1 21</td>		G Majority 20127.dcm-2 21127.dcm-3 PBG.dcm-1 PBG.dcm-1 PBG.dcm-3 PBG.dcm-3 SP10291.dcm 942J.dcm 109367A.dcm 122560.dcm 123527A.dcm 12791.dcm 21127.dcm-1 21127.dcm-1 21127.dcm517.I 21127.dcm517.I 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21122.50517.I-2 21122.50517.I-1 2122560.CD517.I-1 212560.CD517.I-1 21
1 1 1 1 1 1 1 1 1 1 1 1 1 1	T T C A A A A A A T A A T T G T           220	$ \begin{array}{c} A & G & A & T & T & T & T & A \\ \hline 230 \\ \hline \\ 230 \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		<pre>G Majority 20 21127.dcm-2 21127.dcm-3 21127.dcm-3 21127.dcm-3 FB6.dcm-1 FB6.dcm-3 FB6.dcm-3 FB6.dcm-3 SP10291.dcm 9422.dcm 10936VA.dcm 12256U.dcm 13791.dcm 13791.dcm 21127.dcm-1 13791.dcm 21127.dcm-1 13847.dcm 21127.dcm-1 13847.dcm 21127.dcm-1 C 19432/CDS17.I-1 C 1942.dcS17.I-2 C 1122.60C.17.I-3 C FB6.cDS17.I-3 /pre>
1 1 1 1 1 1 1 1 1 1 1 1 1 1	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c} A \ G \ A \ T \ T \ T \ T \ A \\ 230 \\ \hline$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		G Majority 20 21127.dcm-2 21127.dcm-3 FBG.dcm-3 FBG.dcm-1 FBG.dcm-3 SP10291.dcm 9422.dcm 10936VA.dcm 12256U.dcm 1382VA.ccm 1482VA.ccm 148
1 1 1 1 1 1 1 1 1 1 1 1 1 1	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	T À G À G C C T T T -           250           -		G Majority 20127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-1 FBG.dcm-3 FBG.dcm-3 SP10291.dcm 109367A.dcm 109367A.dcm 122560.dcm 123527A.dcm 12791.dcm 21127.dcm-1 21127.dcm-1 21127.dcm517.I 21127.dcm517.I 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 21127.CD517.I-2 212260.CD517.I-2 5102947A.CD517.II 122560.CD517.I-1 2122560.CD517.II 212560.CD517.II-2 2143527A.CD517.II-2 212560.CD517.II-2 212560.CD517.II-2 212560.CD517.II-2 21379.ICD517.II-2 2143527A.CD517.II-2 2143527A.CD517.II-1 212560.CD517.II-2 2143527A.CD517.II-2 2143527A.CD517.II-1 21573.CD517.II-2 21579.ICD517.II-2 21
1 1 1 1 1 1 1 1 1 1 1 1 1 1	T T C A A A A A A T A A T T G T           220	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	T A G A G C C T T T -         250         - </td <td>1       1</td> <td><pre>G Majority 20 21127.dcm-2 21127.dcm-3 21127.dcm-3 21127.dcm-3 FB6.dcm-1 FB6.dcm-3 FB6.dcm-3 FB6.dcm-3 SP10291.dcm 9422.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 1093FJ.dcm /pre></td>	1       1	<pre>G Majority 20 21127.dcm-2 21127.dcm-3 21127.dcm-3 21127.dcm-3 FB6.dcm-1 FB6.dcm-3 FB6.dcm-3 FB6.dcm-3 SP10291.dcm 9422.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 1093FJ.dcm /pre>
1 1 1 1 1 1 1 1 1 1 1 1 1 1	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c} A \ G \ A \ T \ T \ T \ T \ A \\ 230 \\ \hline$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		G Majority 20 21127.dcm-2 21127.dcm-3 21127.dcm-3 21127.dcm-3 21127.dcm-3 21127.dcm-1 210291.dcm 200291.dcm 102940A.dcm 102940A.dcm 102940A.dcm 102940A.dcm 102940A.dcm 1027.dcm-1 21127.dcm-1 21127.dcm-1 21127.cDS17.I 21127.cDS17.I 21127.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 2112540.cDS17.I-2 21127.cDS17.I-2 21127.cDS17.I-2 212540.cDS17.I-1 212540.cDS17.I-2 21272.cDS17.I-2 21272.cDS17.I-2 21272.cDS17.I-2 21272.cDS17.I-2 21272.cDS17.I-2 2120291.cDS17.I-2 2120291.cDS17.I-2 2120291.cDS17.I-1 2120291.cDS17.I-1 2120291.cDS17.I-1 2120291.cDS17.I-1 2120291.cDS17.I-1 2120291.cDS17.I-1 2120291.cDS17.I-1 2120291.cDS17.I-1 2120291.cDS17.I-1 21200.cDS17.I-1 2
1 1 1 1 1 1 1 1 1 1 1 1 1 1	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1       1	<pre>G Majority 20127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-1 FBG.dcm-3 FBG.dcm-3 SP10291.dcm 942J.dcm 109367A.dcm 122560.dcm 143527A.dcm 143527A.dcm 143527A.dcm 143527A.dcm 143527A.dcm 143527A.dcm 143527A.dcm 143527A.dcm 143527A.dcm 143527A.dcm 143527A.dcm 143527A.dcm 143527A.dcm 143527A.dcm 143527A.dcm 143527A.dcm 21127.CD517.II 21127.CD517.II 212260.CD517.II 212260.CD517.II 212260.CD517.II 212260.CD517.II 212560.CD517.II 212560.CD517.II 212560.CD517.II 212560.CD517.II 212560.CD517.II 212560.CD517.II 212560.CD517.II 21573.CD517.II 21573.CD517.II 21791.CD517.II 21791.CD517.II 21791.CD517.II 21791.CD517.II 21791.CD517.II 21791.CD517.II 21791.CD517.II 2170.CD517.II 217</pre>
1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1       1	<pre>G Majority C Majority 20 21127.dcm-2 21127.dcm-3 21127.dcm-3 FB6.dcm-1 FB6.dcm-3 FB6.dcm-3 SP10291.dcm 9422.dcm 109367A.dcm 12256U.dcm 13827.dcm 13827A.cDS17.I 13791.dcm 21127.dcm-1 21127.dcm-1 21127.dcm-1 21127.dcm17.I 21127.dcm7.I 21254U.dcm7.I pre>

|  | AGTAAGAAAATATGA   | таттааатсааа  |  | CTAGTTT  
   
   
   
  | TTTAATACCA                                 | TACTGTGAAAT  | A A T Majority  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
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	290	300	310	320																			
   
   
   
  | 330  | 340  | 350   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
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  |  |  | 21127.dcm-2   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
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  |  |  | FBG.dcm-1   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
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  |  |  | FBG.dcm-2   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
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  |  |  | SP10291.dcm   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
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  |  |  | 942J.dcm  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1  |   |   |  |  
   
   
   
  |  |  | 12256U.dcm  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
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  |  |  | 14352VA.dcm   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
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| ĩ  |   |   |  |  
   
   
   
  |  |  | 19791.dcm   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>276   | GGTTTGTAAAAATG  | ТТСААААТААТ Т   | CATTTAGA                                   | GTAGTIGGA  
   
   
   
  | TTTAAAATCCT                                | ГАТПСАТСТТ   | 21127.dcm-1<br>A G T 14352VA.CDS17.I  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 276  | GGTTTGTAAAAAACG   | ITCAAAATAATT  | CATTTAGA                                   | GTAGTTGGA  
   
   
   
  | TTTAAATCCT                                 | TATICATGTTI  | & G T 18847.CDS17.I   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 276<br>275   | G A T T T G T A A A A A C G<br>G A T T T G T A A A G A A T G T  | T T C A A A A T A A T T<br>T T C A A A A T A A T T  | CATTTAGAA                                  | GTAGTTGGA  
   
   
   
  | T T T A A A T C C T<br>T T T A A A C C C T | T A T T C A T G T T T<br>T A T T C G T G T T T   | A G T 19791.CDS17.I<br>A G T 21127.CDS17.I-1  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 276  | GATTIGTARAGAATG   | Г Т С А А А А Т А А Т Т   | CAAATAGAA                                  | GTAGTTTGGA   
   
   
   
  | TTTAAACCCT                                 | IATTCGTGTTT  | A G T 21127.CDS17.I-2   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 278  | GGTTTGTAAAAAACG   | T T C A A A A T A A T T   | CATTTAGAA                                  | GTAGTTTGGA   
   
   
   
  | TTTAAATCCT                                 | TATTCATGTTT  | A G T FBG.CDS17.I-1   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 278  | G G T T T G T A A A A A A C G   | ITCAAAATAATT  | CATTTAGAA                                  | GIAGIIIGA  
   
   
   
  | TTTAAATCCT                                 | TATICATGITT  | A G T FBG.CDS17.I-2   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 274  | G G T T T G T & A A - A A C A   | I T C A A A A T A A T T   | CATTTAGA                                   | GTAGTTGGA  
   
   
   
  | TTTAAATCCT                                 | TATICATGIII  | A G T SP10291.CDS17.I   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 276  | G G T T T G T A A A A C G   | I T C A A A A T A A T T<br>T T C A A A A T A A T T  | CATTTAGAA                                  | GTAGTTGGA  
   
   
   
  | TTTAAATCCT                                 | TATICATGTTT<br>TATTCATGTTT   | A G T 942J.CDS17.I  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 278  | GGTTTGTAAAAACG  | ITCAAAATAATT  | CATTTAGAA                                  | GTAGTTIGGA   
   
   
   
  | TTTARATCCT                                 | TATTCATGTT   | A G T 12256U.CDS17.I  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 256<br>256   | A G T A A G A A A A T A T G A .<br>A G T A A G A A A A A T A T G A .  | F A T T A A A T C A A A<br>I A T T A A A T C A A A  | . A A A - T A A T A<br>. A A A - T A A T A | . C T A G T T T  
   
   
   
  | TTTAATACCA<br>TTTAATACCA                   | T A C G G T G A A A T<br>T A C A G T G A A A T   | A & T 10936VA.CDS17.II<br>A & T 12256U.CDS17.II-1   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 256  | AGTAAGAAAATATGA   | ΙΑΤΤΑΑΑΤСΑΑΑ  | AAA-TAATA                                  | СТАСТТТ  
   
   
   
  | TTTAATACCA                                 | ΤΑΟΑGΤGΑΑΑΤ  | A A T 12256U.CDS17.II-2   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 256<br>255   | A G T A A G A A A A T A T G A<br>A G T A A G A A A A A T A T G A  | ГАТТАААТСААА<br>ТАТТАААТСААА  |  | LCIAGIII<br>LCIAGIII   
   
   
   
  | TITAATACCA                                 | I A C A G I G A A A I<br>I A C A G I G A A A I   | A A T 14352VA.CDS17.11<br>A A T 16753.CDS17.11-1  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 254  | AGTAAGAAAATATGA   |   |  |  
   
   
   
  | TTTAATACCA                                 | TACAGTGAAAT  | A A T 16753.CDS17.II-2  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 257  | A G T A A G A A A A T A T G A   | IATTAAATCAAA  | . A A <u>A</u> - T A A T A                 | C T A G T T T  
   
   
   
  | TT <u>T</u> AATACCA                        | TACAGTGAAAT  | A A T 19791.CDS17.II-2  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 253  | A G T A A G A A A A T A T G A   | 1 A T T A A A T C A A A<br>T A T T X A A T C A A A  | . A A T A A T A                            | . C T A G T T T  
   
   
   
  | TT-AATACCA                                 | TACAGTGAAAT  | A & T SP10291.CDS17.II  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 255  | A G T A A G A A A A T A T G A   |   |  | CIAGTIT  
   
   
   
  | TT-AATACCA                                 | TACAGIGAAAT  | A A T 942J.CDS17.II   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 256  | A G T A A G A A A A A T A T G A   | 1 A T T A A A T C A A A<br>7 A T T A A A T C A A A  | . A A A - T A A T A<br>6 A 6 - T A 6 T 6   | C T A G T T T  
   
   
   
  | TTTAATACCA                                 | T A C A G T G A A A T<br>T B C A G T G B A B T   | A A T 2740.CDS17.II-1   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 256  | AGTAAGAAAATATGA   | IATTAAATCAAA  | AAA-TAATA                                  | CTAGTTT  
   
   
   
  | TTTAATACCA                                 | TACAGTGAAAT  | AAT 7447VA CDS17.II   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
|  |   |   |  |  
   
   
   
  |  |  |   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
|  | TAATGATGAAATTGT:<br>360   | AATTAATAGAAA<br>370   | <u>а – – – – даа 1</u><br>380              | <u>I A A - T T T T</u><br>390  
   
   
   
  | GGA<br>400                                 | <u>A T A T T T A A</u><br>410  | <u> C</u> Majority<br>420   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1  | <u>TAATGATGAAATTGT</u><br>360   | <u>ааттаатадааа</u><br>   | 380  | <u>1 A A - T T T T T</u><br>390<br>  
   
   
   
  | 400  | <u>A T A T T T A A</u><br>410<br>  | <u> C</u> Majority<br><u>420</u><br><u>- 21127.dcm-2</u>  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1  | <u>T A A T G A T G A A A T T G T :</u><br>360   | <u>A A T T A A T A G A A A</u><br>370   | 380<br>                                    | 390<br>  
   
   
   
  | GGA<br>400                                 | <u>A T A T T T A A</u><br>410<br>  | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FBG.dcm-1   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1  | <u>T A A T G A T G A A A T T G T 3</u> 60   | <u>A A T T A A T A G A A A</u><br>370   | 380<br>                                    | <u>1 A A - T T T T T</u><br>390<br>  
   
   
   
  | 400<br>                                    | <u>ATATTTAA</u><br>410<br>   | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- FBG.dcm-1<br>- FBG.dcm-1<br>- FBG.dcm-2<br>- FBG.dcm-2   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1  | <u>T A A T G A T G A A A T T G T 3</u> 60<br>360  | <u>A A T T A A T A G A A A</u><br>370<br>   | 380<br>                                    | <u>390</u><br>   
   
   
   
  | GGA<br>400                                 | <u>A T A T T T A A 410</u>   | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FB6.dcm-1<br>- FB6.dcm-2<br>- FB6.dcm-3<br>- FB6.dcm-3  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1<br>1   | <u>T A A T G A T G A A A T T G T 3</u> 60   | <u>A A T T A A T A G A A A</u><br>370<br>   | 380<br>                                    | 390<br>  
   
   
   
  | 400<br>GGA<br>                             | <u>A T A T T T A A 410</u>   |   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1  | <u>T A A T G A T G A A A T T G T 360</u><br>360   | <u>A A T T A A T A G A A A</u><br>370<br>   | 380<br>                                    | 390<br>  
   
   
   
  | GGA<br>400                                 | <u>A T A T T T A A 410</u>   | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FBG.dcm-1<br>- FBG.dcm-2<br>- FBG.dcm-3<br>- SP10291.dcm<br>- 942J.dcm<br>- 942J.dcm<br>- 12256U.dcm  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1  | <u>T A A T G A T G A A A T T G T 360</u><br>360   | <u>A A T T A A T A G A A A 370</u><br>  | 380<br>                                    | 390<br>  
   
   
   
  | GGA<br>400                                 | A T A T T T A A 410<br>  | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FBG.dcm-1<br>- FBG.dcm-1<br>- FBG.dcm-3<br>- SF10291.dcm<br>- 942J.dcm<br>- 10936VA.dcm<br>- 11352VA.dcm<br>- 11352VA.dcm   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1  | <u>T A A T G A T G A A A T T G T 360</u><br>360   | <u>A A T T A A T A G A A A A 370</u>  | 380<br>                                    | <u>A A - T T T T</u><br><u>390</u><br>   
   
   
   
  | GGA<br>400                                 | A T A T T T A A 410  | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-3<br>- FBG.dcm-1<br>- FBG.dcm-2<br>- FBG.dcm-3<br>- SPI0291.dcm<br>- 942J.dcm<br>- 10936VA.dcm<br>- 12256U.dcm<br>- 14352VA.dcm<br>- 1935VA.dcm<br>- 1937.dcm<br>- 1971.dcm<br>- 21127.dcm  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>346  | <u>TAATGATGAAATTGT</u><br>360<br>   | <u>A A T T A A T A G A A A</u><br>370   | A  | I A A - T T T T T         390  
   
   
   
  | G G A<br>400<br>                           | <u>A T A T T T A A<br/>410</u>   | <ul> <li> C Majority</li> <li>420</li> <li>- 21127.dcm-3</li> <li>- FBG.dcm-1</li> <li>- FBG.dcm-2</li> <li>- FBG.dcm-3</li> <li>- SPI0.291.dcm</li> <li>- 942J.dcm</li> <li>- 10936VA.dcm</li> <li>- 1352VA.dcm</li> <li>- 1352VA.dcm</li> <li>- 13791.dcm</li> <li>- 21127.dcm-1</li> <li>- A b [C] 14352VA.CDB17.I</li> </ul>  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>346<br>346<br>346   | <u>TAATGATGAAATTGT</u><br>360<br>   | <u>A A T T A A T A G A A A</u><br>370<br>   | A  | I A A - T T T T T           390  
   
   
   
  |  | <u>A T A T T T A A<br/>410</u>   | <ul> <li><u>- C</u> Majority</li> <li><u>420</u></li> <li>21127.dcm-2</li> <li>2127.dcm-3</li> <li>FBG.dcm-1</li> <li>FBG.dcm-2</li> <li>FBG.dcm-3</li> <li>SP10291.dcm</li> <li>9423.dcm</li> <li>10936VA.dcm</li> <li>12350VA.dcm</li> <li>18847.dcm</li> <li>18847.dcm</li> <li>1852VA.cm</li> <li>18847.dcm</li> <li>18352VA.cm</li> <li>18847.dcm</li> <li>18432VA.cm</li> <li>18432VA.cm</li> </ul>   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>346<br>346<br>345                            | TAATGATGAAATTGT           360   | A A T T A A T A G A A P<br>370<br>  | A  | I A A - T T T T T           390  
   
   
   
  | 400<br>400<br>                             | <u>A T A T T T A A<br/>410</u><br>   | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- FBG.dcm-1<br>- FBG.dcm-1<br>- FBG.dcm-2<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- 109367A.dcm<br>- 109367A.dcm<br>- 109367A.dcm<br>- 12256U.dcm<br>- 12357A.dcm<br>- 12357A.dcm<br>- 12357A.dcm<br>- 12357A.dcm<br>- 19337A.dcm<br>- 19337A.dcm<br>- 19337A.dcm<br>- 19337A.dcm<br>- 19347.dcm<br>- 1934 |   |                                       |                                    |                |   |                |  |  |   |                               |                                       |   |                                 |  |                            | | | | | | | | |
  |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |   |   |                                 |                |  |  |  |                               |   
   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |   |   |  |                |  |  
  |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>346<br>345<br>346<br>346 | TAATGATGAAATTGT           360   | A A T T A A T A G A A P<br>370<br>  | A  | I A A - T T T T T           390  
   
   
   
  | 400<br>400<br>                             | <u>A T A T T T A A 410</u><br>   | <ul> <li><u>- C</u> Majority</li> <li><u>420</u></li> <li>21127.dcm-2</li> <li>21127.dcm-3</li> <li>FBG.dcm-1</li> <li>FBG.dcm-2</li> <li>FBG.dcm-3</li> <li>SP10291.dcm</li> <li>9423.dcm</li> <li>12350V.dcm</li> <li>12350V.dcm</li> <li>12352VA.cDS17.I</li> <li>A K 1947.CDS17.I</li> <li>A K 21127.CDS17.I-1</li> <li>A 21127.CDS17.I-3</li> </ul>  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>346<br>345<br>346<br>346<br>346<br>346<br>346<br>346             | <u>TAATGATGAAATTGT</u><br>360<br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>360</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>370</u><br><u>3</u> | A A T T A A T A G A A P<br>370<br>  | A  | I A A - T I T I T           390  
   
   
   
  |  | <u>A T A T T T A A 410</u><br>   | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- F86.dcm-1<br>- F86.dcm-3<br>- F86.dcm-3<br>- F86.dcm-3<br>- 9423.dcm<br>- 1935VA.dcm<br>- 1935VA.dcm<br>- 12256U.dcm<br>- 12256U.dcm<br>- 1357VA.dcm<br>- 1357VA.dcm<br>- 1357VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 1371.dcm<br>- 1371.dcm<br>- 21127.dcm-1<br>A A G 1847.dcm<br>- 21127.dcm-1<br>A A G 19791.CDS17.I<br>A A G 19791.CDS17.I<br>A A G 21127.CDS17.I-1<br>A A G 21127.CDS17.I-3<br>A A G F86.CDS17.I-3<br>A A G F86.CDS17.I-3<br>- A G F86.CDS17.I-3<br>- A G F86.CDS17.I-3<br>- A G F86.CDS17.I-3<br>- A G F86.CDS17.I-3<br>- A G F86.CDS17.I-3<br>- A G F86.CDS17.I-3<br>- A G F86.CDS17.I-3<br>- A G F86.CDS17.I-3<br>- A G F86.CDS17.I-3<br>- A G F86.CDS17.I-3<br>  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
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  |  | <u>A T A T T T A A 410</u><br><u>410</u><br><u> </u>   | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FB6.dcm-1<br>- FB6.dcm-2<br>- FB6.dcm-3<br>- FB6.dcm-3<br>- SP10291.dcm<br>- 14352VA.dcm<br>- 12256U.dcm<br>- 12352VA.dcm<br>- 12352VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 1371.dcm-1<br>- 1312.7.dcm-1<br>- 1322VA.dcm<br>- 21127.dcm-1<br>- 1322VA.dcm<br>- 21127.dcm-1<br>- 1352VA.dcm<br>- 21127.dcm-1<br>- 1452VA.dcm<br>- 21127.dcm-1<br>- 34C FB6.CDS17.I-3<br>- 34   |   |                                       |                                    |                |   |                |  |  |   |                               |                                       |   |                                 |  |                            | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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T T T T T           390          </td><td></td><td>A T A T T T A A<br/>410<br/></td><td><u> C</u> Majority<br/><u>420</u><br/>- 21127.dcm-2<br/>- 21127.dcm-3<br/>- FBG.dcm-1<br/>- FBG.dcm-1<br/>- FBG.dcm-3<br/>- FBG.dcm-3<br/>- SP10291.dcm<br/>- 942J.dcm<br/>- 14352VA.dcm<br/>- 14352VA.dcm<br/>- 18847.dcm<br/>- 18847.dcm<br/>- 18791.dcm<br/>- 18791.dcm<br/>- 18771.dcm<br/>- 18771.dcm<br/>- 18771.dcm<br/>- 18771.dcm<br/>- 19791.dcm<br/>- 19791.dc</td></tr> <tr><td>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>TAATGATGAAATTGT           360          </td><td>A A T T A A T A G A A P           370          </td><td>A G A A 1           380          </td><td>I A A - T T T T T           390          </td><td>400<br/>400<br/></td><td><u>A T A T T T A A 410</u><br/></td><td> C Majority<br/>420<br/>- 21127.dcm-2<br/>- FBG.dcm-1<br/>- FBG.dcm-1<br/>- FBG.dcm-2<br/>- FBG.dcm-2<br/>- FBG.dcm-3<br/>- FBG.dcm-3<br/>- FBG.dcm-3<br/>- 19936VA.dcm<br/>- 19936VA.dcm<br/>- 19936VA.dcm<br/>- 1352VA.dcm<br/>- 1352VA.dcm<br/>- 1352VA.dcm<br/>- 1352VA.dcm<br/>- 18847.dcm<br/>- 1352VA.dcm<br/>- 19791.dcm<br/>- 19791.dcm<br/>- 21127.dcm-1<br/>A K (19847.dcm517.I<br/>A K (21127.dc517.I-1<br/>A K (21127.dc517.I-2<br/>A K (21127.dc517.I-2)<br/>A K (21127.dc517</td></tr> <tr><td>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>TAATGATGAAATTGT           360          </td><td>A         A         T         T         A         A         T         A         A         T         A         A         T         A</td><td>A G A A 1           380   </td><td>I A A - T I I I I           390          </td><td></td><td><u>A T A T T T A A 410</u><br/></td><td><u> C</u> Majority<br/><u>420</u><br/>- 21127.dcm-2<br/>- 21127.dcm-3<br/>- FBG.dcm-1<br/>- FBG.dcm-1<br/>- FBG.dcm-2<br/>- FBG.dcm-3<br/>- FBG.dcm-3<br/>- FBG.dcm-3<br/>- 199367A.dcm<br/>- 199367A.dcm<br/>- 199367A.dcm<br/>- 19357A.dcm<br/>- 19357A.dcm<br/>- 19357A.dcm<br/>- 19357A.dcm<br/>- 19357A.dcm<br/>- 19791.dcm<br/>- 21127.dcm-1<br/>A C 113527A.dcm-1<br/>A C 113527A.dcm-1<br/>A C 113527A.dcm<br/>- 19791.dcm<br/>- 19791.dcm<br/>- 19791.dcm<br/>- 21127.dcm-1<br/>A C 21127.CDS17.I<br/>A C 21127.CDS17.I<br/>A C 21127.CDS17.I-1<br/>A C 21127.CDS17.I-2<br/>A C 199467A.CDS17.I<br/>A C 19947A.CDS17.I-1<br/>A C 942J.CDS17.I-2<br/>A C 942J.CDS17.I-2<br/>A C 199567A.CDS17.II<br/>- 199367A.CDS17.II<br/>- 199367A.CDS17.II<br/>- 12256U.CDS17.II-1<br/>- 12256U</td></tr> <tr><td>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>TAATGATGAAATTGT           360          </td><td>A         A         T         T         A         A         T         A         A         T         A         A         T         A</td><td>A</td><td>I A A - T T T T T           390          </td><td>400<br/>400<br/></td><td><u>A T A T T T A A 410</u><br/><u>410</u><br/><u> </u></td><td><ul> <li><u>- C</u> Majority</li> <li><u>420</u></li> <li>21127.dcm-2</li> <li>21127.dcm-3</li> <li>FBG.dcm-1</li> <li>FBG.dcm-1</li> <li>FBG.dcm-2</li> <li>FBG.dcm-3</li> <li>SP10291.dcm</li> <li>9423.dcm</li> <li>12352W.adcm</li> <li>12127.dcm-1</li> <li>A K</li> <li>14352W.adcm</li> <li>12127.dcm-1</li> <li>A K</li> <li>15352W.adcm</li> <li>12127.dcm-1</li> <li>A K</li> <li>15352W.adcm</li> <li>1537.1</li> <li>A K</li> <li>1573.1CB17.1</li> <li>A K</li> <li>12127.CDS17.1</li> <li>A K</li> <li>12560.CDS17.1-2</li> <li>A K</li> <li>10936WA.CDS17.1</li> <li>A K</li> <li>10936WA.CDS17.1</li> <li>A K</li> <li>12560.CDS17.1-1</li> <li>C12560.CDS17.11-2</li> <li>124560.CDS17.11-1</li> <li>124560.CDS17.11-1</li> <li>124560.CDS17.11-1</li> <li>12560.CDS17.11-2</li> <li>12560.CDS17.11-1</li> <li>12560.CDS17.11-1</li> <li>12560.CDS17.11-1</li> <li>12560.CDS17.11-1</li> <li>12560.CDS17.11-1</li> </ul></td></tr> <tr><td>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>TAATGATGAAATTGT           360          </td><td>A         A         T         T         A         A         T         A         A         T         A         A         T         A</td><td>380<br/>380<br/></td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>400<br/>400<br/></td><td><u>A T A T T T A A 410</u><br/>410<br/></td><td><u> C</u> Majority<br/><u>420</u><br/>- 21127.dcm-2<br/>- 21127.dcm-3<br/>- F86.dcm-1<br/>- F86.dcm-2<br/>- F86.dcm-2<br/>- F86.dcm-3<br/>- F86.dcm-3<br/>- F86.dcm-3<br/>- 12256U.dcm<br/>- 12256U.dcm<br/>- 12256U.dcm<br/>- 12256U.dcm<br/>- 1235VA.dcm<br/>- 1235VA.dcm<br/>- 1235VA.dcm<br/>- 19847.dcm<br/>- 1971.dcm<br/>- 1993.dcm<br/>- /td></tr> <tr><td>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>T A A T G A T G A T G A A A T T G T           360          </td><td>A         A         T         T         A         A         T         A         A         T         A         A         T         A</td><td>A</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>400<br/>400<br/></td><td><u>A T A T T T A A 410</u><br/>410<br/></td><td><u> C</u> Majority<br/><u>420</u><br/>- 21127.dcm-2<br/>- 21127.dcm-3<br/>- FB6.dcm-1<br/>- FB6.dcm-3<br/>- FB6.dcm-3<br/>- FB6.dcm-3<br/>- FB6.dcm-3<br/>- SP10291.dcm<br/>- 12256U.dcm<br/>- 12256U.dcm<br/>- 12256U.dcm<br/>- 12256U.dcm<br/>- 12257.dcm-1<br/>A A G 1847.dcm<br/>- 19847.dcm<br/>- 21127.dcm-1<br/>A A G 1847.dcm<br/>- 1971.dcm<br/>- 21127.dcm-1<br/>A A G 19791.dcm<br/>- 21127.dcm-1<br/>A A G 19791.dcm<br/>- 21127.dcm-1<br/>A A G 19791.dcm<br/>- 1971.dcm<br/>- 19</td></tr> <tr><td>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>T A A T G A T G A A A T T G T           360          </td><td>A         A         T         T         A         A         T         A         A         T         A         A         T         A</td><td>A</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>400<br/>400<br/></td><td><math display="block">\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} </math></td><td><u> C</u> Majority<br/><u>420</u><br/>- 21127.dcm-2<br/>- 21127.dcm-3<br/>- F86.dcm-1<br/>- F86.dcm-3<br/>- F86.dcm-3<br/>- F86.dcm-3<br/>- F86.dcm-3<br/>- SP10291.dcm<br/>- 1935VA.dcm<br/>- 12256U.dcm<br/>- 12256U.dcm<br/>- 1235VA.dcm<br/>- 1235VA.dcm<br/>- 13591.dcm<br/>- 21127.dcm-1<br/>A A G 14352VA.CDS17.I<br/>A A G 14352VA.CDS17.I<br/>A A G 12127.CDS17.I-1<br/>A A G 21127.CDS17.I-1<br/>A A G 5P10291.CDS17.I-3<br/>A A G 5P10291.CDS17.I-3<br/>A A G 5P10291.CDS17.I<br/>A G SP10291.CDS17.I<br/>A G SP10291.CDS17.I<br/>A G SP10291.CDS17.I<br/>A G SP10291.CDS17.I<br/>A G SP10291.CDS17.I<br/>- CDS17.I-2<br/>- CDS17.II-2<br/>- SP10291.CDS17.II-2<br/>- SP10291.CDS17.</td></tr> <tr><td>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>A         A</td><td>380         380        </td><td>I A A - T I T I T I           390          </td><td></td><td><u>A T A T T T A A 410</u> <u>410</u> <u> </u></td><td><u> C</u> Majority<br/><u>420</u><br/>- 21127.dcm-2<br/>- 21127.dcm-3<br/>- FB6.dcm-1<br/>- FB6.dcm-1<br/>- FB6.dcm-3<br/>- FB6.dcm-3<br/>- FB6.dcm-4<br/>- 123501.dcm<br/>- 14357VA.dcm<br/>- 14357VA.dcm<br/>- 12256U.dcm<br/>- 14357VA.dcm<br/>- 12357VA.dcm<br/>- 1847.dcm<br/>- 1847.dcm<br/>- 1847.dcm<br/>- 1847.dcm<br/>- 1847.dcm<br/>- 1879.1dcm<br/>- 12127.dcm-1<br/>A &amp; C 1847.CDS17.I<br/>A &amp; C 1127.CDS17.I-1<br/>A &amp; C 21127.CDS17.I-2<br/>A &amp; C 21127.CDS17.I-3<br/>A &amp; C FB6.CDS17.I-3<br/>A &amp; C FB6.CDS17.I-3<br/>A &amp; C FB6.CDS17.I-3<br/>A &amp; C 19367VA.CDS17.I<br/>A &amp; C 19367VA.CDS17.I<br/>A &amp; C 19367VA.CDS17.I<br/>A &amp; C 19367VA.CDS17.I<br/>- 12256U.CDS17.I-1<br/>- 12256U.CDS17.I-1<br/>- 12256U.CDS17.I-1<br/>- 12256U.CDS17.II-1<br/>- 12553.CDS17.II-1<br/>- 13753.CDS17.II-1<br/>- 16753.CDS17.II-2<br/>- 13791.CDS17.II-2<br/>- 1379</td></tr> <tr><td>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1<br/>1</td><td>TAATGATGAAATTGT           360          </td><td>A         A</td><td>A</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>400<br/>400<br/></td><td>A T A T T T A A<br/>410<br/></td><td><u> C</u> Majority<br/><u>420</u><br/>- 21127.dcm-2<br/>- 21127.dcm-3<br/>- FB6.dcm-1<br/>- FB6.dcm-1<br/>- FB6.dcm-2<br/>- FB6.dcm-2<br/>- FB6.dcm-3<br/>- SF10291.dcm<br/>- 14352VA.dcm<br/>- 14352VA.dcm<br/>- 12256U.dcm<br/>- 14352VA.dcm<br/>- 1352VA.dcm<br/>- 18847.dcm<br/>- 18847.dcm<br/>- 18847.dcm<br/>- 1871.dcm<br/>- 1871.dcm<br/>- 21127.dcm-1<br/>A A C 14352VA.CDS17.I<br/>A A C 21127.CDS17.I-1<br/>A A C 21127.CDS17.I-1<br/>A A C 21127.CDS17.I-1<br/>A A C 5F10291.CDS17.I-1<br/>A A C 5F10291.CDS17.I-1<br/>A A C 5F10291.CDS17.I-1<br/>A A C 5F10291.CDS17.I-1<br/>A A C 12256U.CDS17.I-1<br/>A C 1256U.CDS17.I-1<br/>A C 1256U.CDS17.I-1<br/>A C 5F10291.CDS17.I-1<br/>A C 5F10291.CDS17.I-1<br/>C 12556U.CDS17.I-1<br/>C 12556U.CDS17.I-1<br/>C 12556U.CDS17.I-1<br/>C 12550U.CDS17.II-1<br/>C 14352VA.CDS17.II-1<br/>C 14352VA.CDS17.II-1<br/>C 14352VA.CDS17.II-1<br/>C 14352VA.CDS17.II-2<br/>C 19791.CDS17.II-2<br/>C 19791.CDS17.II-2<br/>C 19791.CDS17.II-2<br/>C 19791.CDS17.II-2<br/>C 19791.CDS17.II-2<br/>C 19791.CDS17.II-2<br/>C 2740.CDS17.II-1<br/>C 2740.CDS17.II-1<br/>C 2740.CDS17.II-1<br/>C 2740.CDS17.II-2<br/>C 14320.CDS17.II-1<br/>C 2740.CDS17.II-1<br/>C 2740.</td></tr> |  | <u>A T A T T T A A<br/>410</u><br>   | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FB6.dcm-1<br>- FB6.dcm-2<br>- FB6.dcm-3<br>- FB6.dcm-3<br>- FB6.dcm-3<br>- SF10291.dcm<br>- 142540.dcm<br>- 142540.dcm<br>- 122540.dcm<br>- 122540.dcm<br>- 123540.dcm<br>- 123540.dcm<br>- 123540.dcm<br>- 1237.dcm<br>- 1217.dcm-1<br>- 1217.dcm-1<br>- 1217.dcm<br>- 1217.dcm<br>- 1217.dcm<br>- 1217.dcm<br>- 21127.dcm<br>- 21127.d   | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | TAATGATGAAG         Jeo           360 | A A T T A A T A G A A P<br>370<br> | 380<br>380<br> | I A A - T T T T T           330 <tr td=""></tr> | 400<br>400<br> | <u>A T A T T T A A 410</u><br><u>410</u><br><u> </u> | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FBG.dcm-1<br>- FBG.dcm-1<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- SP10291.dcm<br>- 120291.dcm<br>- 14352VA.dcm<br>- 12256U.dcm<br>- 14352VA.dcm<br>- 18647.dcm<br>- 19791.dcm<br>- 19791.dcm<br>A & C 18647.dcm<br>- 19791.dcm<br>- 19791.dcm<br>A & C 1127.dcm-1<br>A | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | TAATGATGAAATTGT           360 | A A T T A A T A G A A P           370 | A | I A A - T T T T T           390 |  | A T A T T T A A<br>410<br> | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FBG.dcm-1<br>- FBG.dcm-1<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- SP10291.dcm<br>- 942J.dcm<br>- 14352VA.dcm<br>- 14352VA.dcm<br>- 18847.dcm<br>- 18847.dcm<br>- 18791.dcm<br>- 18791.dcm<br>- 18771.dcm<br>- 18771.dcm<br>- 18771.dcm<br>- 18771.dcm<br>- 19791.dcm<br>- 19791.dc | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | TAATGATGAAATTGT           360 | A A T T A A T A G A A P           370 | A G A A 1           380 | I A A - T T T T T           390 | 400<br>400<br> | <u>A T A T T T A A 410</u><br> | C Majority<br>420<br>- 21127.dcm-2<br>- FBG.dcm-1<br>- FBG.dcm-1<br>- FBG.dcm-2<br>- FBG.dcm-2<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- 19936VA.dcm<br>- 19936VA.dcm<br>- 19936VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 18847.dcm<br>- 1352VA.dcm<br>- 19791.dcm<br>- 19791.dcm<br>- 21127.dcm-1<br>A K (19847.dcm517.I<br>A K (21127.dc517.I-1<br>A K (21127.dc517.I-2<br>A K (21127.dc517.I-2)<br>A K (21127.dc517 | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | TAATGATGAAATTGT           360 | A         A         T         T         A         A         T         A         A         T         A         A         T         A | A G A A 1           380 | I A A - T I I I I           390 |  | <u>A T A T T T A A 410</u><br> | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FBG.dcm-1<br>- FBG.dcm-1<br>- FBG.dcm-2<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- 199367A.dcm<br>- 199367A.dcm<br>- 199367A.dcm<br>- 19357A.dcm<br>- 19357A.dcm<br>- 19357A.dcm<br>- 19357A.dcm<br>- 19357A.dcm<br>- 19791.dcm<br>- 21127.dcm-1<br>A C 113527A.dcm-1<br>A C 113527A.dcm-1<br>A C 113527A.dcm<br>- 19791.dcm<br>- 19791.dcm<br>- 19791.dcm<br>- 21127.dcm-1<br>A C 21127.CDS17.I<br>A C 21127.CDS17.I<br>A C 21127.CDS17.I-1<br>A C 21127.CDS17.I-2<br>A C 199467A.CDS17.I<br>A C 19947A.CDS17.I-1<br>A C 942J.CDS17.I-2<br>A C 942J.CDS17.I-2<br>A C 199567A.CDS17.II<br>- 199367A.CDS17.II<br>- 199367A.CDS17.II<br>- 12256U.CDS17.II-1<br>- 12256U | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | TAATGATGAAATTGT           360 | A         A         T         T         A         A         T         A         A         T         A         A         T         A | A | I A A - T T T T T           390 | 400<br>400<br> | <u>A T A T T T A A 410</u><br><u>410</u><br><u> </u> | <ul> <li><u>- C</u> Majority</li> <li><u>420</u></li> <li>21127.dcm-2</li> <li>21127.dcm-3</li> <li>FBG.dcm-1</li> <li>FBG.dcm-1</li> <li>FBG.dcm-2</li> <li>FBG.dcm-3</li> <li>SP10291.dcm</li> <li>9423.dcm</li> <li>12352W.adcm</li> <li>12127.dcm-1</li> <li>A K</li> <li>14352W.adcm</li> <li>12127.dcm-1</li> <li>A K</li> <li>15352W.adcm</li> <li>12127.dcm-1</li> <li>A K</li> <li>15352W.adcm</li> <li>1537.1</li> <li>A K</li> <li>1573.1CB17.1</li> <li>A K</li> <li>12127.CDS17.1</li> <li>A K</li> <li>12560.CDS17.1-2</li> <li>A K</li> <li>10936WA.CDS17.1</li> <li>A K</li> <li>10936WA.CDS17.1</li> <li>A K</li> <li>12560.CDS17.1-1</li> <li>C12560.CDS17.11-2</li> <li>124560.CDS17.11-1</li> <li>124560.CDS17.11-1</li> <li>124560.CDS17.11-1</li> <li>12560.CDS17.11-2</li> <li>12560.CDS17.11-1</li> <li>12560.CDS17.11-1</li> <li>12560.CDS17.11-1</li> <li>12560.CDS17.11-1</li> <li>12560.CDS17.11-1</li> </ul> | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | TAATGATGAAATTGT           360 | A         A         T         T         A         A         T         A         A         T         A         A         T         A | 380<br>380<br> | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 400<br>400<br> | <u>A T A T T T A A 410</u><br>410<br> | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- F86.dcm-1<br>- F86.dcm-2<br>- F86.dcm-2<br>- F86.dcm-3<br>- F86.dcm-3<br>- F86.dcm-3<br>- 12256U.dcm<br>- 12256U.dcm<br>- 12256U.dcm<br>- 12256U.dcm<br>- 1235VA.dcm<br>- 1235VA.dcm<br>- 1235VA.dcm<br>- 19847.dcm<br>- 1971.dcm<br>- 1993.dcm<br>- | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | T A A T G A T G A T G A A A T T G T           360 | A         A         T         T         A         A         T         A         A         T         A         A         T         A | A | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 400<br>400<br> | <u>A T A T T T A A 410</u><br>410<br> | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FB6.dcm-1<br>- FB6.dcm-3<br>- FB6.dcm-3<br>- FB6.dcm-3<br>- FB6.dcm-3<br>- SP10291.dcm<br>- 12256U.dcm<br>- 12256U.dcm<br>- 12256U.dcm<br>- 12256U.dcm<br>- 12257.dcm-1<br>A A G 1847.dcm<br>- 19847.dcm<br>- 21127.dcm-1<br>A A G 1847.dcm<br>- 1971.dcm<br>- 21127.dcm-1<br>A A G 19791.dcm<br>- 21127.dcm-1<br>A A G 19791.dcm<br>- 21127.dcm-1<br>A A G 19791.dcm<br>- 1971.dcm<br>- 19 | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | T A A T G A T G A A A T T G T           360 | A         A         T         T         A         A         T         A         A         T         A         A         T         A | A | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 400<br>400<br> | $\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $ | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- F86.dcm-1<br>- F86.dcm-3<br>- F86.dcm-3<br>- F86.dcm-3<br>- F86.dcm-3<br>- SP10291.dcm<br>- 1935VA.dcm<br>- 12256U.dcm<br>- 12256U.dcm<br>- 1235VA.dcm<br>- 1235VA.dcm<br>- 13591.dcm<br>- 21127.dcm-1<br>A A G 14352VA.CDS17.I<br>A A G 14352VA.CDS17.I<br>A A G 12127.CDS17.I-1<br>A A G 21127.CDS17.I-1<br>A A G 5P10291.CDS17.I-3<br>A A G 5P10291.CDS17.I-3<br>A A G 5P10291.CDS17.I<br>A G SP10291.CDS17.I<br>A G SP10291.CDS17.I<br>A G SP10291.CDS17.I<br>A G SP10291.CDS17.I<br>A G SP10291.CDS17.I<br>- CDS17.I-2<br>- CDS17.II-2<br>- SP10291.CDS17.II-2<br>- SP10291.CDS17. | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | A         A | 380         380 | I A A - T I T I T I           390 |  | <u>A T A T T T A A 410</u> <u>410</u> <u> </u> | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FB6.dcm-1<br>- FB6.dcm-1<br>- FB6.dcm-3<br>- FB6.dcm-3<br>- FB6.dcm-4<br>- 123501.dcm<br>- 14357VA.dcm<br>- 14357VA.dcm<br>- 12256U.dcm<br>- 14357VA.dcm<br>- 12357VA.dcm<br>- 1847.dcm<br>- 1847.dcm<br>- 1847.dcm<br>- 1847.dcm<br>- 1847.dcm<br>- 1879.1dcm<br>- 12127.dcm-1<br>A & C 1847.CDS17.I<br>A & C 1127.CDS17.I-1<br>A & C 21127.CDS17.I-2<br>A & C 21127.CDS17.I-3<br>A & C FB6.CDS17.I-3<br>A & C FB6.CDS17.I-3<br>A & C FB6.CDS17.I-3<br>A & C 19367VA.CDS17.I<br>A & C 19367VA.CDS17.I<br>A & C 19367VA.CDS17.I<br>A & C 19367VA.CDS17.I<br>- 12256U.CDS17.I-1<br>- 12256U.CDS17.I-1<br>- 12256U.CDS17.I-1<br>- 12256U.CDS17.II-1<br>- 12553.CDS17.II-1<br>- 13753.CDS17.II-1<br>- 16753.CDS17.II-2<br>- 13791.CDS17.II-2<br>- 1379 | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | TAATGATGAAATTGT           360 | A         A | A | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 400<br>400<br> | A T A T T T A A<br>410<br> | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FB6.dcm-1<br>- FB6.dcm-1<br>- FB6.dcm-2<br>- FB6.dcm-2<br>- FB6.dcm-3<br>- SF10291.dcm<br>- 14352VA.dcm<br>- 14352VA.dcm<br>- 12256U.dcm<br>- 14352VA.dcm<br>- 1352VA.dcm<br>- 18847.dcm<br>- 18847.dcm<br>- 18847.dcm<br>- 1871.dcm<br>- 1871.dcm<br>- 21127.dcm-1<br>A A C 14352VA.CDS17.I<br>A A C 21127.CDS17.I-1<br>A A C 21127.CDS17.I-1<br>A A C 21127.CDS17.I-1<br>A A C 5F10291.CDS17.I-1<br>A A C 5F10291.CDS17.I-1<br>A A C 5F10291.CDS17.I-1<br>A A C 5F10291.CDS17.I-1<br>A A C 12256U.CDS17.I-1<br>A C 1256U.CDS17.I-1<br>A C 1256U.CDS17.I-1<br>A C 5F10291.CDS17.I-1<br>A C 5F10291.CDS17.I-1<br>C 12556U.CDS17.I-1<br>C 12556U.CDS17.I-1<br>C 12556U.CDS17.I-1<br>C 12550U.CDS17.II-1<br>C 14352VA.CDS17.II-1<br>C 14352VA.CDS17.II-1<br>C 14352VA.CDS17.II-1<br>C 14352VA.CDS17.II-2<br>C 19791.CDS17.II-2<br>C 19791.CDS17.II-2<br>C 19791.CDS17.II-2<br>C 19791.CDS17.II-2<br>C 19791.CDS17.II-2<br>C 19791.CDS17.II-2<br>C 2740.CDS17.II-1<br>C 2740.CDS17.II-1<br>C 2740.CDS17.II-1<br>C 2740.CDS17.II-2<br>C 14320.CDS17.II-1<br>C 2740.CDS17.II-1<br>C 2740. |
|  | <u>A T A T T T A A<br/>410</u><br>  | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FB6.dcm-1<br>- FB6.dcm-2<br>- FB6.dcm-3<br>- FB6.dcm-3<br>- FB6.dcm-3<br>- SF10291.dcm<br>- 142540.dcm<br>- 142540.dcm<br>- 122540.dcm<br>- 122540.dcm<br>- 123540.dcm<br>- 123540.dcm<br>- 123540.dcm<br>- 1237.dcm<br>- 1217.dcm-1<br>- 1217.dcm-1<br>- 1217.dcm<br>- 1217.dcm<br>- 1217.dcm<br>- 1217.dcm<br>- 21127.dcm<br>- 21127.d |  |   
   
   
   
   |  |  |   |   |                                       |                                    |                |   |                |  |  |   |                               |                                       |   |                                 |  |                            | | | | | | | | |
  |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |   |   |                                 |                |  |  |  |                               |   
   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |   |   |  |                |  |  
  |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                        | TAATGATGAAG         Jeo           360   | A A T T A A T A G A A P<br>370<br>  | 380<br>380<br>                             | I A A - T T T T T           330 <tr td=""></tr>  
   
   
   
  | 400<br>400<br>                             | <u>A T A T T T A A 410</u><br><u>410</u><br><u> </u>   | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FBG.dcm-1<br>- FBG.dcm-1<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- SP10291.dcm<br>- 120291.dcm<br>- 14352VA.dcm<br>- 12256U.dcm<br>- 14352VA.dcm<br>- 18647.dcm<br>- 19791.dcm<br>- 19791.dcm<br>A & C 18647.dcm<br>- 19791.dcm<br>- 19791.dcm<br>A & C 1127.dcm-1<br>A  |   |                                       |                                    |                |   |                |  |  |   |                               |                                       |   |                                 |  |                            | | | | | | | | |
   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |   |   |                                 |                |  |  |  |                               |  
  |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |   |   |  |                |  |   
   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
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  |  |  |   |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
   |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |  
  |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |  
  |   |  |                |  |   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                        | TAATGATGAAATTGT           360   | A A T T A A T A G A A P           370   | A  | I A A - T T T T T           390  
   
   
   
  |  | A T A T T T A A<br>410<br>   | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FBG.dcm-1<br>- FBG.dcm-1<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- SP10291.dcm<br>- 942J.dcm<br>- 14352VA.dcm<br>- 14352VA.dcm<br>- 18847.dcm<br>- 18847.dcm<br>- 18791.dcm<br>- 18791.dcm<br>- 18771.dcm<br>- 18771.dcm<br>- 18771.dcm<br>- 18771.dcm<br>- 19791.dcm<br>- 19791.dc   |   |                                       |                                    |                |   |                |  |  |   |                               |                                       |   |                                 |  |                            | | | | | | | | |
  |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |   |   |                                 |                |  |  |  |                               |   
   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |   |   |  |                |  |  
  |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                        | TAATGATGAAATTGT           360   | A A T T A A T A G A A P           370   | A G A A 1           380                    | I A A - T T T T T           390  
   
   
   
  | 400<br>400<br>                             | <u>A T A T T T A A 410</u><br>   | C Majority<br>420<br>- 21127.dcm-2<br>- FBG.dcm-1<br>- FBG.dcm-1<br>- FBG.dcm-2<br>- FBG.dcm-2<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- 19936VA.dcm<br>- 19936VA.dcm<br>- 19936VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 1352VA.dcm<br>- 18847.dcm<br>- 1352VA.dcm<br>- 19791.dcm<br>- 19791.dcm<br>- 21127.dcm-1<br>A K (19847.dcm517.I<br>A K (21127.dc517.I-1<br>A K (21127.dc517.I-2<br>A K (21127.dc517.I-2)<br>A K (21127.dc517  |   |                                       |                                    |                |   |                |  |  |   |                               |                                       |   |                                 |  |                            | | | | | | | | |
   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |   |   |                                 |                |  |  |  |                               |  
  |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |   |   |  |                |  |   
   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | TAATGATGAAATTGT           360   | A         A         T         T         A         A         T         A         A         T         A         A         T         A   | A G A A 1           380                    | I A A - T I I I I           390  
   
   
   
  |  | <u>A T A T T T A A 410</u><br>   | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FBG.dcm-1<br>- FBG.dcm-1<br>- FBG.dcm-2<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- FBG.dcm-3<br>- 199367A.dcm<br>- 199367A.dcm<br>- 199367A.dcm<br>- 19357A.dcm<br>- 19357A.dcm<br>- 19357A.dcm<br>- 19357A.dcm<br>- 19357A.dcm<br>- 19791.dcm<br>- 21127.dcm-1<br>A C 113527A.dcm-1<br>A C 113527A.dcm-1<br>A C 113527A.dcm<br>- 19791.dcm<br>- 19791.dcm<br>- 19791.dcm<br>- 21127.dcm-1<br>A C 21127.CDS17.I<br>A C 21127.CDS17.I<br>A C 21127.CDS17.I-1<br>A C 21127.CDS17.I-2<br>A C 199467A.CDS17.I<br>A C 19947A.CDS17.I-1<br>A C 942J.CDS17.I-2<br>A C 942J.CDS17.I-2<br>A C 199567A.CDS17.II<br>- 199367A.CDS17.II<br>- 199367A.CDS17.II<br>- 12256U.CDS17.II-1<br>- 12256U   |   |                                       |                                    |                |   |                |  |  |   |                               |                                       |   |                                 |  |                            | | | | | |
  |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |   |   |                                 |                |  |   
  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |   |   |  |                |  |  
  |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | TAATGATGAAATTGT           360   | A         A         T         T         A         A         T         A         A         T         A         A         T         A   | A  | I A A - T T T T T           390  
   
   
   
  | 400<br>400<br>                             | <u>A T A T T T A A 410</u><br><u>410</u><br><u> </u>   | <ul> <li><u>- C</u> Majority</li> <li><u>420</u></li> <li>21127.dcm-2</li> <li>21127.dcm-3</li> <li>FBG.dcm-1</li> <li>FBG.dcm-1</li> <li>FBG.dcm-2</li> <li>FBG.dcm-3</li> <li>SP10291.dcm</li> <li>9423.dcm</li> <li>12352W.adcm</li> <li>12127.dcm-1</li> <li>A K</li> <li>14352W.adcm</li> <li>12127.dcm-1</li> <li>A K</li> <li>15352W.adcm</li> <li>12127.dcm-1</li> <li>A K</li> <li>15352W.adcm</li> <li>1537.1</li> <li>A K</li> <li>1573.1CB17.1</li> <li>A K</li> <li>12127.CDS17.1</li> <li>A K</li> <li>12560.CDS17.1-2</li> <li>A K</li> <li>10936WA.CDS17.1</li> <li>A K</li> <li>10936WA.CDS17.1</li> <li>A K</li> <li>12560.CDS17.1-1</li> <li>C12560.CDS17.11-2</li> <li>124560.CDS17.11-1</li> <li>124560.CDS17.11-1</li> <li>124560.CDS17.11-1</li> <li>12560.CDS17.11-2</li> <li>12560.CDS17.11-1</li> <li>12560.CDS17.11-1</li> <li>12560.CDS17.11-1</li> <li>12560.CDS17.11-1</li> <li>12560.CDS17.11-1</li> </ul>  |   |                                       |                                    |                |   |                |  | | | | | | | | | | | | | | | | |
  |   |                               |                                       |   |                                 |  |                            |   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |   
   |   |                                 |                |  |  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |   
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  | 400<br>400<br>                             | <u>A T A T T T A A 410</u><br>410<br>  | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- F86.dcm-1<br>- F86.dcm-2<br>- F86.dcm-2<br>- F86.dcm-3<br>- F86.dcm-3<br>- F86.dcm-3<br>- 12256U.dcm<br>- 12256U.dcm<br>- 12256U.dcm<br>- 12256U.dcm<br>- 1235VA.dcm<br>- 1235VA.dcm<br>- 1235VA.dcm<br>- 19847.dcm<br>- 1971.dcm<br>- 1993.dcm<br>-  |   |                                       |                                    |                |   |                |  |  |   |                               |                                       |   |                                 |  |                            | | | | | | | | |
   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |   |   |                                 |                |  |  |  |                               |  
  |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |   |   |  |                |  |   
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  | 400<br>400<br>                             | <u>A T A T T T A A 410</u><br>410<br>  | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FB6.dcm-1<br>- FB6.dcm-3<br>- FB6.dcm-3<br>- FB6.dcm-3<br>- FB6.dcm-3<br>- SP10291.dcm<br>- 12256U.dcm<br>- 12256U.dcm<br>- 12256U.dcm<br>- 12256U.dcm<br>- 12257.dcm-1<br>A A G 1847.dcm<br>- 19847.dcm<br>- 21127.dcm-1<br>A A G 1847.dcm<br>- 1971.dcm<br>- 21127.dcm-1<br>A A G 19791.dcm<br>- 21127.dcm-1<br>A A G 19791.dcm<br>- 21127.dcm-1<br>A A G 19791.dcm<br>- 1971.dcm<br>- 19   |   |                                       |                                    |                |   |                |  |  |   |                               |                                       |   |                                 |  |                            | | | | | | | | |
   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |   |   |                                 |                |  |  |  |                               |  
  |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |   |   |  |                |  |   
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  | 400<br>400<br>                             | $\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} $ | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- F86.dcm-1<br>- F86.dcm-3<br>- F86.dcm-3<br>- F86.dcm-3<br>- F86.dcm-3<br>- SP10291.dcm<br>- 1935VA.dcm<br>- 12256U.dcm<br>- 12256U.dcm<br>- 1235VA.dcm<br>- 1235VA.dcm<br>- 13591.dcm<br>- 21127.dcm-1<br>A A G 14352VA.CDS17.I<br>A A G 14352VA.CDS17.I<br>A A G 12127.CDS17.I-1<br>A A G 21127.CDS17.I-1<br>A A G 5P10291.CDS17.I-3<br>A A G 5P10291.CDS17.I-3<br>A A G 5P10291.CDS17.I<br>A G SP10291.CDS17.I<br>A G SP10291.CDS17.I<br>A G SP10291.CDS17.I<br>A G SP10291.CDS17.I<br>A G SP10291.CDS17.I<br>- CDS17.I-2<br>- CDS17.II-2<br>- SP10291.CDS17.II-2<br>- SP10291.CDS17.   |   |                                       |                                    |                |   |                |  |  |   |                               |                                       |   |                                 |  |                            | | | | | |
   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |   |   |                                 |                |  |  
   |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |   |   |  |                |  |   
   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
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  |  | <u>A T A T T T A A 410</u> <u>410</u> <u> </u>   | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FB6.dcm-1<br>- FB6.dcm-1<br>- FB6.dcm-3<br>- FB6.dcm-3<br>- FB6.dcm-4<br>- 123501.dcm<br>- 14357VA.dcm<br>- 14357VA.dcm<br>- 12256U.dcm<br>- 14357VA.dcm<br>- 12357VA.dcm<br>- 1847.dcm<br>- 1847.dcm<br>- 1847.dcm<br>- 1847.dcm<br>- 1847.dcm<br>- 1879.1dcm<br>- 12127.dcm-1<br>A & C 1847.CDS17.I<br>A & C 1127.CDS17.I-1<br>A & C 21127.CDS17.I-2<br>A & C 21127.CDS17.I-3<br>A & C FB6.CDS17.I-3<br>A & C FB6.CDS17.I-3<br>A & C FB6.CDS17.I-3<br>A & C 19367VA.CDS17.I<br>A & C 19367VA.CDS17.I<br>A & C 19367VA.CDS17.I<br>A & C 19367VA.CDS17.I<br>- 12256U.CDS17.I-1<br>- 12256U.CDS17.I-1<br>- 12256U.CDS17.I-1<br>- 12256U.CDS17.II-1<br>- 12553.CDS17.II-1<br>- 13753.CDS17.II-1<br>- 16753.CDS17.II-2<br>- 13791.CDS17.II-2<br>- 1379   |   |                                       |                                    |                |   |                |  |  |   |                               |                                       |   |                                 |  |                            | | | | | |
   |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |   |   |                                 |                |  |  
   |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |   |   |  |                |  |   
   |  |   |   |                 |                                   |  |  |   |  |                               |   |   |  |                |                            |   |
| 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | TAATGATGAAATTGT           360   | A           | A  | $\begin{array}{c c c c c c c c c c c c c c c c c c c $   
   
   
   
  | 400<br>400<br>                             | A T A T T T A A<br>410<br>   | <u> C</u> Majority<br><u>420</u><br>- 21127.dcm-2<br>- 21127.dcm-3<br>- FB6.dcm-1<br>- FB6.dcm-1<br>- FB6.dcm-2<br>- FB6.dcm-2<br>- FB6.dcm-3<br>- SF10291.dcm<br>- 14352VA.dcm<br>- 14352VA.dcm<br>- 12256U.dcm<br>- 14352VA.dcm<br>- 1352VA.dcm<br>- 18847.dcm<br>- 18847.dcm<br>- 18847.dcm<br>- 1871.dcm<br>- 1871.dcm<br>- 21127.dcm-1<br>A A C 14352VA.CDS17.I<br>A A C 21127.CDS17.I-1<br>A A C 21127.CDS17.I-1<br>A A C 21127.CDS17.I-1<br>A A C 5F10291.CDS17.I-1<br>A A C 5F10291.CDS17.I-1<br>A A C 5F10291.CDS17.I-1<br>A A C 5F10291.CDS17.I-1<br>A A C 12256U.CDS17.I-1<br>A C 1256U.CDS17.I-1<br>A C 1256U.CDS17.I-1<br>A C 5F10291.CDS17.I-1<br>A C 5F10291.CDS17.I-1<br>C 12556U.CDS17.I-1<br>C 12556U.CDS17.I-1<br>C 12556U.CDS17.I-1<br>C 12550U.CDS17.II-1<br>C 14352VA.CDS17.II-1<br>C 14352VA.CDS17.II-1<br>C 14352VA.CDS17.II-1<br>C 14352VA.CDS17.II-2<br>C 19791.CDS17.II-2<br>C 19791.CDS17.II-2<br>C 19791.CDS17.II-2<br>C 19791.CDS17.II-2<br>C 19791.CDS17.II-2<br>C 19791.CDS17.II-2<br>C 2740.CDS17.II-1<br>C 2740.CDS17.II-1<br>C 2740.CDS17.II-1<br>C 2740.CDS17.II-2<br>C 14320.CDS17.II-1<br>C 2740.CDS17.II-1<br>C 2740.   |   |                                       |                                    |                |   |                |  |  |   |                               |                                       |   |                                 |  |                            | | | | | |
  |   |                               |                                       |                         |                                 |                |                                |  |  |                               |   |                         |                                 |  |                                |   |  |                               |   |   |                                 |                |  |   
  |  |                               |   |                |  |                |                                       |  |  |   |   |   |  |                |                                       |   |  |   |   |   |  |                |  |  
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if if if if if if if if if if if	415	TATOTA GC GGT A TTTAAA CT		AAACGAGGATGAACT	A CTCGTGA A G CATTA	4352VA.CDS17.I
141       1	416	TATTIAGCGGTATTIAAACT	AAATGGCCTTAATATTG	AAACGAGATGAACT	A C T C G W G A A G C A T T T A J	8847.CDS17.I
	416	TATITIA GCGGTATTAAAACT	A A A T G G T C T T A A T A T T T G	A A A C G A G G A T G A A C T A	A C T C G T G A A G C A T T A 1	19791.CDS17.I
44 The Term Park of A B or A B A C B A A A C B A A A C B A A C B A A C B A A C B A A A C B A A C B A A C B A A C B A A C B A A C B A A C B A A C B A A C B A A C B A A C B A A C B A A C B A A A C B A A A C B A A A C B A A A C B A A A C B A A A C B A A A C B A A A C B A A A C B A A A C B A A A C B A A A C B A A A C B A A A C B A A A C B A A A C A A A A	416	TATTAGCAGTATITAAACI	à T G G C C T T à à T à T T T G	AAACGAGGATGAACT	ACTCGTGAAGCATTIA	21127.CDS17.I-2
Image: Transmission of the standard length of the standard l	416	TATTAGCAGTATTTAAACT	AAATGGCCTTAATATTG	AAACGAGGATGAACT	ACTCGTGAAGCATTTA	21127.CDS17.I-3
141       TA T T A A C C A T C T A A C C A A C C A T A C C A A C C A C C A C A	418	TATTTA GC GGTA TTTAAA CT	A A A T G G T C T T A A T A T T T G	A A A C G A G G A T G A A C T I	A C T C G T G A A G C A T T T A H	BG.CD517.1-1 BG.CD517.1-2
11/2       11/2	418	TATTAACCT	AAATGGTCTTAATATTG	AAACGAGGATGAACT	A C T C G T G A A G C A T T T A H	BG.CDS17.I-3
113       111       121       1	412	TATTAAACC TATTAAACCC	AAAJTGGTCTTAATATATG AAATGGTCTTAATG	A A A C G A G G A T G A A C T A A A A C G A G G A T G A A C T A	A C T C G T G A A G C A T T T A S A C T C G T G A A G C A T T T A	SP10291.CDS17.I
$\frac{1}{14} T = T = T = T = T = T = T = T = T = T $	415	TATTAAACT	AAATGGTCTTAATATTG	AAACGAGGATGAACT	ACTCGTGAAGCATTTA	0936VA.CDS17.I
111       1	418	TATTTAGCGGTATTTAAACT	A A A T G G T C T T A A T A T T T G	A A A C G A G G A T G A A C T	ACTCGTGAAGCATTTAI	12256U.CDS17.I
$\frac{1}{14} \begin{bmatrix} 1 \\ 2 \\ 2 \\ 3 \\ 3 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 3 \\ 4 \\ 4$	371	CATTTCAGTGTTGTTAAGAT	AAAAGGATTTAATGTTTT	TGTAAATTCGGAGCA	A S A T A S A S A A C C G G A G T I	2256U.CDS17.II-1
100       1	371	C A T T I C A G I G I T G I I A A G A T	AAAAGGATITAAIGITIT	TGTAAATTCGGAGCA	A G A T A G A G A A G C G G A G T I	2256U.CDS17.II-2
199       LATT C       A       TAT T       LATT C       A       A       A       A       A       A       C       A       T       A	370	CATTTCAGIGIGIIGIIAAGAI CATTTCAGIGIGITGTTAAGAI	AAAAGGATITAAIGIIII AAAAGGATTTAATGTTTT	T G T A A A T T C G G A G C A I	A G A T A G A G A A G C G G A G T I	14352VA.CD517.11 16753.CD517.II-1
11       12 <td< td=""><td>369</td><td>CATTICAGITGITAAGAI</td><td>AAAAGGATTTAATGTTTT</td><td>TGTAAATTCGGAGCA</td><td>AGATAGAGAAGC GGAGT 1</td><td>6753.CDS17.II-2</td></td<>	369	CATTICAGITGITAAGAI	AAAAGGATTTAATGTTTT	TGTAAATTCGGAGCA	AGATAGAGAAGC GGAGT 1	6753.CDS17.II-2
$ \frac{1}{12} = \frac{1}{12} + \frac{1}{12}$	372	CATITCAGIGITGITAAGAT	A A A A G G A T T T A A T G T T T T A B A A G G A T T T A B T G T T T T	T G T A A A T I C G G A G C A . T G T A A A T T C G G A G C A .	IGATAGAGAAGCIGGAIGTI	9791.CDS17.II-1
$ \begin{array}{c} 10 \\ 10 \\ 20 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\$	366	CATITCAGIGITGITAAGAI	A A A A G G A T T T A A T G T T T T	- GTAAATICGGAGCA	. G A T A G A G A A G C G G A G T S	SP10291.CDS17.II
11       11 <td< td=""><td>370</td><td>CATTTCAGTGTTGTTAAGAT</td><td>AAAGGATTTAATGTTTT</td><td>TGTAAATTCGGAGCA</td><td>AGATAGAGAAGCG-GAGG</td><td>27J.CDS17.II</td></td<>	370	CATTTCAGTGTTGTTAAGAT	AAAGGATTTAATGTTTT	TGTAAATTCGGAGCA	AGATAGAGAAGCG-GAGG	27J.CDS17.II
1010       CATTICOLA STRUCTURE AND ATTICUTED AND ATTICTED BY ANALYSIN TYPE BY ANALYSI	371	C A T T T C A G T G T T G T T A A G A T	AAAAGGATTTAATGTTTT	T G T A A A T T C G G A G C A J	GATAGAGAAGCGGAGT	2740.CDS17.II-1
TITE A DA OTTITTA CAAATATITTA CAATATITTA AATATATIGUT OTTOTTA TAAAATAACTA TOTA TATATAACTA TATATAACTA TATATATATICUT AAAACTA ACCTA TATATAAACCCTA TATATAAACCCAA Majority          500       510       520       530       540       550       560         16       ATTA AAATATITTTA CAAATATITTTA CAATATACTA TATATATATATATATATATATATA	370	C A T T T C A G T G T T G T T A A G A T	A A A A G G A T T T A A T G T T T T	TGTAAATTCGGAGCA	A G A T A G A G A A G C G G A G T 2	2740.CDS17.II-2
500         520         530         540         550         560           16         A 15 A 4 A 0 - 11 (0 - 11 - 0 -		<u>TTTAGAGTTTTACAAATATT</u>	TTA - AATATAGTTGCTGA	TAAAATAACTATTAT	TAAAACÇTATGAACCAA N	fajority
16       A [1] A [] A [] A [] A [] A [] T [] C [] A [] T [] A [] T [] C [] C [] A [] T [] A [] A [] A [] A [] A [] C [] C [] A [] T [] A [] A [] C [] C [] A [] T [] A [] A [] C [] C [] C [] A [] T [] A [] A [] C [] C [] C [] A [] T [] A [] A [] C [] C [] C [] A [] T [] A [] A [] C [] C [] C [] A [] T [] A [] A [] C [] C [] C [] A [] T [] A [] A [] C [] C [] C [] A [] T [] A [] A [] C [] C [] C [] A [] T [] A [] A [] C [] C [] C [] A [] T [] A [] A [] A [] C [] C [] C [] A [] A		500 510	520	530 540	550 560	
1       1	16	A T A A A A G T T G T T G A A T T A T T	T G G T G G A A TAG G T G C T A T	TAGAAAAGCTCTAAT	TAGAACCCATCAACCCTC2	21127.dcm-2
16       A [C] A [C] A [A] A [A] C T [C] A [A] T [C] X T T [G] C C G G A [A] X X G C [C] C T A [T] A [G] A [A] A [C] C [C] C [A] [A] X T A [G] A [A] X C [A] C [A] X T A [A] A [A] X C [A] C [A] X T A [A] A [A] X C [A] C [A] A [A] X C [A] C [A] A [A] X C [A] C [A] A [A] X C [A] C [A] A [A] X C [A] C [A] A [A] X C [A] C [A] A [A] X C [A] C [A] [A] X A [A] [A] [A] [A] [A] [A] [A] [A] [A] [	16	ATAAAGTIGIIGAATIAII	I G G C G G A A T A G G C G C T A T	TAGARARGCTCTAAT	CAGAACCATCAAACCTC H	BG.dcm-1
16       A [] A [] A [] A [] A [] [] A [] [] A [] [] A [] [] A [] [] A [] [] A []	16	A T A A A A G T T G T T G A A T T A T T	TGGCGGAATAGGCGCTAT	TAGAAAGCTCTAAT	AGAACCATCAAACCTCH	BG.dcm-2
16       A TA ÀA A S Y TO RT TO ALA TO TA Y TO GO C GO A A TA S GO C A C TA TTA GO A A A A GO C TO TA A TY A GO A A C C A A C C A A C C T C 9423.dcm         16       A TA ÀA A A C TI GO T O A A T TA TT TO GO C GO A A TA S GO C C TA TTA GO A A A A GO C TO TA A TY A GO A X C A A TO C A A A C C T C 103670.dcm         16       A TA ÀA A A C TI GO T O A A T TA TT TO GO C GO A A TA S GO C C TA TT A GO A A A A GO C TO TA A TY A GO A X C A A TO C A A X C T C 1 23607.dcm         16       A TA ÀA A A C TI GO T O A A T TA TT TO GO C GO A X TA S GO C C TA TT A GO A A A A GO T TO C TA A TY A GO A X C A T C A A X C T C 1 23607.dcm         16       A TA À A A A C TI GO T O A A T TA TT TO GO C GO A X TA S GO C TA TT A GO A A A A GO T TO C TA A TY A GO A X C A T C A A X C T C 1 23607.dcm         16       A TA A A A C TI GO T O A T TA TT TO GO T GO A X TA S GO C TA TT A GO A A A A GO T TO C TA A T A GO A X A A A A C T TO A A X C T T O A A X C T T O A A X C T T O A A X C T T O A A X C T T O A A X C T T O A A X C T T O A A X C T T O A A X C T T O A A X C T T O A A X C T T O A A X C T T O A A X C T T O A A X C T T O A A X A A A A A A A A A A A A A A A A	16	ATAAAAGTTGTGTTGAATTA	TGGTGGAATAGGTGCTAT	TAGAAAAGCTCTAAT.	CAGAACCCATCAAACCCTC	Plo291.dcm
16       A T A A A A D T 10 T 1 G D A A T T A T T T G G C G G A A T A G G C G C T A T T A G C A A A D G C T C T A A T T A G A A C C A T C A A A C T C C T C 2 A A T C A A A C T C C T C 2 A A T C A A A C T C C T C 2 A A T C A A A C T C C T C 2 A A T C A A A C T C C T C 2 A A T C A A A C T C C T C 2 A A T C A A A C T C C T C 2 A A T C A A A C T C C T C 2 A A T C A A A C T C C T C 2 A A T C A A A C T C C T C 2 A A T C A A A C T C C T C 2 A A T C A A A C T C C T C 2 A A T C A A A A C T C C T C 2 A A T C A A A A C T C A A A T C C A A A C T C A A A T C A A A A	16	A T A A A G T T G T T G A A T T A T T	TGGCGGAATAGGCGCTAT	TAGAAAGCTCTAAT	TAGAACCATCAAACCTC	42J.dcm
16       A TA A A A C T T G T T G A A T T T T T G C T G C A A T A G C C G C A T T T A G A A A G C T C T A A T T A G A A C T C A A A C T C A A A C T C 1832VA.dom         16       A TA A A A C T T G T T G A A T T T T T G C T G C A A T A G C C C C T A T T A G A A A G C T C T A A T A A G A A A G C T C T A A T A A G A A A G C T C T A A T A A G A A A G C T C T A A T A A G A A A G C T C T A A T A A G A A A G C T C T A A T A A G A A A G C T C T A A T A A G A A A G C T C T A A T A A G A A A G C T C A A A C T C A A A C T C A A A C T C A A A C T C A A A C T T G A A A A A A G C T T T A A A T A A C T T A C A A A A A	16	A TAAAAAGT TGTTGAATTAATT	TIGGCGGAATAGGCGCTAT	TAGAAAAAGCTCIAAAT	FAGAACCEATCAAACCETCI	10936VA.dcm 12256U.dcm
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16       A       A       A       A       C       T       C       A       A       C       T       C       A       A       C       T       C       A       A       C       T       C       A       A       C       T       A       C       T       C       T       C       T       A	16 16	A TAAAAAG TIGIII GAAII I AII A	TIGGTGGAATAGGCGCTAT TIGGCGGAATAGGCGCTAT	TAGAAAAAGCTCTAAT TAGAAAAGCTCTAAT	CALGAACCCATCAACCCTCI AGAACCCATCAAACCTCI	18847.dcm 19791.dcm
465       T T G A T A G T T T T C G C A A A A A C T T A A A T A T A C T T A C T T A C T T A C A T T C T T T C T T T T	16	ATAAAGTTGTTGAATTATT	TGGTGGAATAGGTGCTAT	TAGAAAGCTCTAAT	TAGAACCATCAAACCTC	21127.dcm-1
466       T	485	TIGATAG TTTGCAAAAACT	T T A - A A T A T A C T T A C T T A T T A - A A T A T A C T T A C T T A		AAACTTGAAGAAAAAG 1	4352VA.CDS17.I
465       TTG G AT A G C T T T G G C A A A A A C T T T A C T T T A C T T A C T T A C T T A C A A G C T T G C T T C A A C T T G C A A A A A C T T G C A A A G C T T C A A A A C T T G C A A A A A C T T G C T T A C A T A C T T A C A A A G C T T C A A A G C T T C A A A A C T T G C T A C A A A A A A A A A A A A A A A A	486	TTGATAGTTTTGCAAAAACT	TTA-AATACTTACTTA	CAAAGTTTCTTTG	A A A C T T G A A G A A A A G I	19791.CDS17.I
468       1       C       A       A       A       C       T       A	485	T T G A T A G T T T T G C A A A A A C T	T T A - A A T A T A C T T A C T T A	CAAAGTTTCTTTCT	AAACTTGAAGAAAAAG	21127.CDS17.I-1
488       TT G K T K G T T T T G G C A A A A K C T T T A A A T A T A C T T T K C C A A A G T T T C T T T T G C T A A A C T T G K A G A A A A G F BG. CDS17. I-3         488       TT G K T K G T T T T T T G G C A A A A K C T T T A A A T A T A G T T A C A A G T T T C T T T T G C T T A A A C T T G K A G A A A A G F BG. CDS17. I-3         488       TT G K T A G T T T T G G C A A A A K C T T T A A A T A T A C T T A A A T A T	486	T T G A T A G T T T T G C A A A A A C T	T T A - A A T A T A C T T A C T T A	CAAAGTTTCTTTGT	AAACTTGAAGAAAAAG	21127.CDS17.I-3
468       1   0   1   1   1   1   1   1   1   1	488	TTGATAGTTTTGCAAAAACT	T T A - A A T A T A C T T A C T T A	CAAAGTTTCTTTGT	LAAACTTGAAGAAAAG	BG.CDS17.I-1
482       TT G A T A S T T T C G A A A A A C T T T T A A A T A T A C T T A A A T A A A G C T T T C T T T C T T T C T T T C T T T A A A A	488	TTGATAGTTTGCCAAAAACCT	TTA-AATATACTTACTTA	CAAAGTTTCTTTCTGT	A A A C T T G A A G A A A A A G H	BG.CDS17.1-2 BG.CDS17.1-3
466       T T G A T A G T T T T G C A A A A A C T T T A A A T A T A C T T A C T T A C T T A C A A A G F T T C T T T C T T T C T T T G A A A A A A A A A A A A G 42J. CDS17. I         465       T T G C A T A G T T T T G C A A A A A C T T T T T T A A A T A T A	482	T T G A T A G T T T T G C A A A A C T	TTA-AATATACTTACTTA	CAAAGTTTCTTTGT	TAAACTTGAAGAAAAAG	SP10291.CDS17.I
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}{c} \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array} \\ \end{array} \\ \end{array} \\ \end{array} \\$	486 485	T.T.G.A.T.A.G.T.T.T.T.G.C.A.A.A.A.C.T. T.T.G.A.T.A.G.T.T.T.T.G.C.A.A.A.A.A.C.T.	T.T.A.A.A.T.A.T.A.C.T.T.A.C.T.T.A.	CAAAGTTTCTCTC	AAAACTTGAAGAAAAAG	42J.CDS17.I
$ \begin{array}{c} 440 \\ 441 \\ 17 \\ 17 \\ 17 \\ 17 \\ 17 \\ 18 \\ 28 \\ 17 \\ 17 \\ 18 \\ 28 \\ 17 \\ 17 \\ 18 \\ 28 \\ 17 \\ 18 \\ 18 \\ 18 \\ 17 \\ 18 \\ 18 \\ 1$	488	Î Î GATA GI Î Î Î GCÎ Â Â Â CÎ	TTA-AACATACTTACTTA	CAAAGTTTCTTTGT	TAAACTTGAAGAAGAG	12256U.CDS17.I
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$ \begin{array}{c} 439 \\ 440 \\ 171 \\ 171 \\ 171 \\ 182 $	441	TTTCCGAGATTTACAAATCTC	TTA-AATTCTGTTGATGA	TAAAATAACCATTAT	TAAACCTCTGCGCCAAI	2256U.CDS17.II-2
$ \begin{array}{c} 1 \\ 3 \\ 1 \\ 3 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$	439	TITCGAGAGATITACAAATCTC	T T A - A A T T C - G T T G A T G A	TAAAATAACCATTAT	A A A C C T A T G C G C C A A I	4352VA.CDS17.II
442 TTT C C A A A TTTACA & A TCTCTCTTA A A TTCT GTTCA TA A A A TA A A TA A C C A TTATTATA A A C C C C	440	TTTTGAGAATCTC	TTA-AATTCTGTTGATGA	TAAAATAACTATTAT TAAAATAACTATTAT	TAAAACCTCTGCACCAAI	16753.CDS17.II-1
415 TTTT - 6 A GA TTTA CAAA TCTCTCTTA AATT CT OTTGA TAAAATAA CTATTATTAAAACCT CTGTG GG CAA 17991.CD317.11-2 435 TTTT CAAGA TTTA CAAA TCTCTCTCAAATT CTGTGA TAAAATAACTATTATTAAAACCT CTGTGG GG CAA 1791.CD317.11 439 TTTT CAAGA TTTA CAAATCCTCTCTAAATT CTGTTGA TAAAATAACTATTATTAAAACCTCCTCTGG GG CAA 17973.CD317.11 441 TTTTT CAAGA TTTA CAAATCCTCTCTAAATT CTGTTGA TAAAATAACTATTATTAAAACCCTCTGCG GG CAA 17973.CD317.11 440 TTTTT CAAGA TTTACAAATCCTCTCTAAATT CTGTTGA TAAAATAACTATTATTAAAACCCCCCCGG CAA 2940.CD317.11-1 440 TTTTT CAAGA TTTACAAATCCTCTCTAAATT CTGTTGA TAAAATAACTATTATTAAAACCCCCCCGG CAA 2940.CD317.11-1 440 TTTTT CAAGA TTTACAAATCCTCTCTAAATT CTGTTGA TAAAATAACTATTATTAAAACCCCCCCG CGCAA 2940.CD317.11-1 440 TTTTT CAAGA TTTACAAATCCTCTCTAAATT CTGTTGA TAAAATAACTATTATTAAAACCCCCCCG CGCAA 2940.CD317.11-1	442	T T T C G A A A T T T A C A A A T C T C	T T A - A A T T C T G T T G A T G A	TAAAATAACCATTAT	TAAAACCICIGCCAAJ	19791.CDS17.II-1
439 T T T T G A G A T T A C A A A T C T C T T A A A T T C T G T T G A T A A A A T A A A T A A C T A T T A T T A A A A	441 435			the second second second second second second second second second second second second second second second se	A A A A & U I U I U U U U U U A A	19/91.CD21/.11-2
ча в страто страти и какансијски на какански стратока наката котал та така косонскојскојско са 1942 "CDS17. П 441 пт ттра каја птакса кат [стрстта какат стротока] са каката каста та така косонскојској са 2740. CDS17. П-1 440 пт тра каја птакса кат [стрстта катт стротока] са каката каката какота ттака како стротока (споска) 2740. CDS17. П-1 1 - 2010 какат страта какат стротока по страта каката каката каката каката стакта кака со страта са 2740. CDS17. П-1	400	TTT-GAGATTTACAATCTC	TIA-AATTCIGTIGATGA	TAAAATAACTATTAT	CAAAACCTCTGCACCAA	SP10291.CDS17.II
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AT C BAAC G AT T AT T AT T AA T T T BAAT AT A BAA G AT T T AT C BACT T T A BAT G A BAA A G A - A - A AT T G AT Majority         Majority           640         660         670         690         700           150         AT A T A AC G AT T T T T AT AL A BAG C T T T A G A BAG C A T T A T T C A A G A T A A T T C A C T R A T - A A A G A - A - A AT T C A T T C A C T R A T - A A A C A T A A A G A A C A T T A A A G A A C A T T A A A G A A A A A A A A A A A A A	510 509 510	T GGATTTAACTICTAA T GGATTTAACTICTAA T GGATTTAACTICTAA T GGATTTAACTICTAA	ATTAATGAAA ATTAATGAAA	TTGATAAAA	A T T T A A A T A C C A T T T A A A T A C C A T T T A A A T A C C	TCTTTTTATC CTTTTTTATC CTTTTTTA	A A A A A A A T A A T A A A A A T A A T A A T C A A A A T A A T A A T C	1 2740.CD517.II-1 T 2740.CD517.II-2 T 7447VA CD517.II
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339	はした後に「一」後が長々が成した。ことし後長氏はないして「「後に」としてしたがながながった」(後次の次々なななないしたない」」とない、「後年後の次の長年のかられる」をしたの第一名 一般になった。」「後年はないからし」とことはよばな上午には、「その一日」という、「ないないない」では、「ないないない」では、「ない」という、「ないないない」」という、「ないないない」の「ないないない」」			
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395 396 397 393 396 391 396 391 391 395 897 898 898 898 898 898 898 898 898 898	<u>1 GAAAAGCCCATCAT-ATTACTTATTTATTAAAATGTAAAATGTAAAATTTTTTTT</u>	······································		
395 396 397 393 397 393 396 391 396 391 395 397 898 898 898 898 898 898 898 890 900 893 898 890 890 890 890 893 898 890 890 890 893 822 823 822 823 822 823 824 823 824 823 825 823 824 825 825 825 825 825 825 825 825 825 825	Image: Contract - Attractive Tratition Transmission       Page Transmission       P	: : : : : : : : : : : : : : : : : : :		
395 396 397 397 393 396 391 395 395 397 898 897 898 898 900 900 900 900 900 900 900 898 898	1         1         2         50         60         A         A         C         A         A         C         C         A         A         C         C         A         A         C         C         A         A         C         C         A         A         C         C         A         A         C         A         A         C         A         A         A         A         A         A         A         A         A         A         A         A         A         A	: : : : : : : : : : : : : : : : : : :		
395 396 397 397 393 393 393 396 391 395 397 898 898 897 898 897 898 899 900 693 898 897 898 899 900 623 822 823 822 823 822 823 822 823 824 824 824 824 824	1       1	: : : : : : : : : : : : : : : : : : :		
395 396 397 397 393 396 391 396 391 395 897 898 898 898 898 898 898 898 898 898	I GAAAAGCCCATCAT-ATTACTTATTTATTAAAGCTATATGTAAAATTTTTTTTTAAAAGCTATATGTTAGCCCAATTAAA       Majority         50 <td>······································</td>	······································		

	AAATA-ATT	AGT 1	TTCAA	TCAA1	TAGA	TTAT	r – G	AATT	ACC	T 1	GAA	TTA	C A - (	GAT.	AAT 1	GAA	TTTAI	AC	Majority
	9	990		1000		1010			102	0		1030	)		10	40		105	)
459	AAATAAT	A	🕮 T	TCATI	AGA	TTGT	G - G	AATT	CCC	C	AAA	GTA	G A		A A T I	GAG	TTT	A C	21127.dcm-2
460	AAATA - ATT	A	AT	TCAT	AGA	TTGT	G - G	AATT	CCC	C	AAA	GTA	G A		A A T I	GAG	TTTT	A C	21127.dcm-3
461	AAATA-ATT	A	A T	TCAT	AGA	TTGT	G G	AATT	CCC	C	AAA	GTA	G A		AAT	GAG	TTTT	AC	FBG.dcm-1
461	A A A T A - A T T	A	🛱 T	TCATI	AGA	TTGT	3 - G	AATT	CCC	C	AAA	GTA	G A		AAT	GAG	TTTT	AC	FBG.dcm-2
461	AAATA - ATT	A	🗚 T	TCAT	A G A	TTGT	G 🕂 G	A A T T	CCC	C +	AAA	GIA	G 🗛 🕂 -		AAT	GAG	TTTT	AC	FBG.dcm-3
457	AAATA-ATT	A	🖹 T	TCAT	AGA	TTGT	3 - G	AATT	CCC		AAA	GTA	G 🖪		AAT	GAG	TTT	A C	SP10291.dcm
460	AAATA-ATT	A	🐺 T	TCATI	AGA	TTGT	G - G	AATT	CCC	C	AAA	GIA	G 🔉		AAT	GAG	TTTT	A C	942J.dcm
455	AAATA-ATT	A	🐺 T	TCATI	AGA	TTGT	3 - G	AATT	CCC	C	AAA	GTA	G A		AATI	GAG	TTTT	СТ	10936VA.dcm
460	AAATA - ATT	A	🚊 T	TCAT	AGA	T T G T	G - G	A A T T	CCC	C 🕂 – –	AAA	GTA	GA		A A T	GAG	T T T I	A C	12256U.dcm
455	AAATA - ATT	A	<u>a</u> T	THOMA T 3	AGA	TTGT	G - G.	AATT	CCC	C 🗄 – –	AAA	GTA	G A. + -		A A T	GAG	TOTOT T	AC	14352VA.dcm
461	AAATA-ATT	A	A T	TCAT	AGA	TTGW	G - G	AATT	YCC	C	AAA	GTA	G 🗛		A A T I	GAG	TTTT	AC	18847.dcm
459	AAATA-ATT	A	🛱 T	TCAT	AGA	TTGT	3 - G	AATT	CCC	C	AAA	GTA	G A		A A T Z	GAG	TTTT	AC	19791.dcm
461	AAATA-ATT	A	A T	TCAT	AGA	TTGT	G - G	AATT	CCC	C 🖂	AAA	GTA	G 🔉 🕂 -		AATI	GAG	TTT	A C	21127.dcm-1
966	T G A.T.AA.T.T.	ATG	AAAAA	TCAA	ТĞТ	TTAA	ACA	AATI	GCC	A T TI	GAA	TG	г с 🖂	AT	A A A	GAA	TCAA	A A	14352VA.CDS17.I
967	TGATA-ATT	ATG	AAAAA	TAAAO	TGT	TTAA	ACA	AATI	ACC	ATT	GAA	TTG	гст 🤅	AT	AA	GAA	TCAAI	A C	18847.CDS17.I
967	TGATA-ATT	ACGI	AAAAA	TCAAO	TGT	TTAA	ACA	AATT	GCC	A T T T	GAA	TTG	гст	AT	AAA	GAA	TCAA	A C	19791.CDS17.I
966	T G A T A + A T T	ACG	AAAAA	TCAAS	TGT	T T A A	АСА	AATT	GCC	A T T I	GAA	TTG	гст	SAT.	A A A	GAA	TCAAI	A C	21127.CDS17.I-1
967	TGATAATT	ACG	AAAAA	TCAA	TGT	TTAA	ACA	AATT	GCC	ATT	GAA	TTG	гстк	AT.	A A A	GAA	TCAAJ	AC	21127.CDS17.I-2
967	T G A T A - A T T	ACG3	AAAAA	TCAAI	TGT	TTAA	АСА	AATT	GCC	ATT7	GAA	TTG	гстқ	AT.	AA	GAA	TCAAI	A C	21127.CDS17.I-3
969	TGATA-ATT	ACG	AAAAA	TCAAI	TGT	TTAA	ACA	AATT	GCC	ATTI	GAA	TTG	гст	AT	AAA	GAA	TCAA	AC	FBG.CDS17.I-1
969	T G A.T.AA.T.T	ACGI	AAAAA	TCARI	TGT	TTAA	ACA	A A T T	GCC	ATTI	GAA	TTG	гстю	A T	AAA	G A A	TCAA	A C	FBG.CDS17.I-2
969	T G A.T.AA.T.T.	ACG	AAAAA	TCAA1	TGT	TTAA	ACA	AAT 1	GCC	A T T 1	GAA.	TTG	гстю	A T	A A A	GAA	TCAAI	A.C.	FBG.CDS17.I-3
962	TGATA-ATT	ATGI	AAAAA	TCAAI	TGT	TTAA	ACA	AATT	ACC	ATT	GAA.	TTG	гстю	A T	AAA	GAA	TCAAI	A C	SP10291.CDS17.I
967	TGATA-ATT	ATGI	AAAAA	TCAAI	TGT	TTAA	АСА	AATT	GCC	A T T 1	GAA	TTG	гст	5 A T	A A A	GAA	TCAAI	A C	942J.CDS17.I
966	T G A T A + A T T	ACG	AAAAA	TCAA	TGT	TTAA	ACA	AATT	GCC	A T T J	GAA	TGG	I C 🖂	5 A T .	A A A	GAA	TCAAI	A C	10936VA.CDS17.I
969	TGATA-ATT	ATG	AAAAA	TCAA	TGT	TAA	ACA	AAT 1	GCC	ATT:	GAA	TTG	гстк	AT.	A A A	GAA	TCAA		12256U.CDS17.I
892	AAATATAT	AGI	TTCAA	TCAAI	AAA	TGAT	ТС	A A T A	A C A	T J	GAA	TTA	CAA	AT	GCT	GAA	CTTA	AA	10936VA.CDS17.II
895	AAATATAT	AGII	TTCAA	TCAA	AAA	TGAT	ГТТ	AATA	ACA	T ]	GAA	TTA	C A A (	AT	GCT	GAA	CCTA	AA	12256U.CDS17.II-1
895	AAATATAT	A G T C	TTCAA	TCART	AAA	TGAT	ΤΤ	A A T A	A C A		GAA	TTA	CAA	A T	GCT	GAA	CCTA	A A	12256U.CDS17.II-2
893	AAATAT	AGT	TTCAA	T.C.A.A.1	AAA	TGAT	гтт	A A T A	A.C.A	T 1	GAA	T.T.A	CAA	A T	GCT	GAA	CCTA	A A	14352VA.CDS17.II
892	AAATATAT	AGT 1	TTCAA	TCAAI	AAA	TGAT	гтс	AATA	ACA	T 1	GAA	TTA	CAA (	A T	GCT	GAA	CTTA	AA	16753.CDS17.II-1
893	AAATATAT	AGT	TTCAA	TCAAI	AAA	TGAT	гтс	AATA	A CA	I I	GAA	TIA	CAA	5 A T	GCT	GAA	CTTA	AA	16753.CDS17.II-2
897	AAATATAT	AGT	TTCAA	TCAAS	AAA	TGAT	ТТТ	ARTA	A C A	+ + <b>I</b> ]	GAA	TTA	CAA	S A T	GCT	GAA	CTTA	AA	19791.CDS17.II-1
896	AAATAT	A.G.T.	TTCAA	TCAA	AAA	TGAT	ΓΤΤ	A.A.T.A	A.C.A	T-1	GAA	TTA	CAA A	SAT.	GCI	GAA	CTTA	AA	19791.CDS17.II-2
885	AAATATAT	AGT	TTCAA	TCAA	AAA	T G A T	ТС	A.A.T.A	ACA	I I	GAA	T.T.A.	AA	A.T.	GCT	GAA	CITA	AA	SP10291.CDS17.II
894	AAATATAT	AGTI	ТТСАА	TCAA1	A A A	TGAT	ТТТ	AATA	ACA	T ]	GAA	TTA	GAA	AT	GCT	GAA	CCTA	AA	727J.CDS17.II
896	ARATATAT	AGT 1	TTCAA	TCART	AAA	TGAT	ТТ	AATA	A C A	H.H.T.I	GAA	TTA	CAA O	AT	GCT	GAA	CTTA	A A	942J.CDS17.II
895	AAATAT	AGT	TTCAA	T.C.A.A.1	AA	TGAT	ET C	A.A.T.A	ACA	T.I	GAA	TTA	CAA A	A.T.	GCT	GAA	CTTA	A A	2740.CDS17.II-1
894	AAATATAT	AGT	TTCAA	TCAAI	AAA.	TGAT		A A T A	ACA	I I	GAA.	TTA	AA	ΑT	GCT	GAA	CITA	A A	2740.CDS17.II-2
896	AAATATAT	AGT	TTCAA	TCAAJ	AA	T G A T	UT T	AATA	ACA	I I	GAA	TTA	CA A	5 A T	GCT	GAA	CCTA	AA	7447VA CDS17.II

	TCTATTTTCTATT:	ATTAAAC	TGTTATTTG	адатаатт	GTGCAT	TTGATAAT	GATTTGAATGAA	AAAATA Majority
	1060	1070	100	80	1090	1100	1110	1120
514	TGTTTCTATT	ATAAA-	- A C T A T T T A	AAACAATT	CAATAA	TTTAGATA	CATTTAATTGTC	TAAACA 21127.dcm-2
515	TGTTTCTATT	ATAAA-	- A C TATTA	AAACAATI	CAATAA	TTTĂGĂTA	CATTTAATTGTC	T A A A C A 21127.dcm-3
516	TGTTTCTATT	ATAAA-	- A C TATTA A	AAACAATI	CAATAA	TTTAGATA	CATTAAATTGTC	T A A A C A FBG.dcm-1
516	TG TTTTCTAT	ATAAA-	- A C T A T T A	AAACAATI	CAATAA	TTTAGATA	CATTAAATTGTC	TAAC FBG.dcm-2
516	TGTTTCTATT	ATAAA-	- A C T A T T A	AAACAATI	CAATAA	TTTAGATA	CATTAAATTGTC	TAAACA FBG.dcm-3
511	IGTTTCTATT	ATAAA-	- A C T A T T A	AAACAATI	CAATĂA	TTTAGATA	CATTTAATTGTC	T & A & C & SP10291.dcm
515	TG TTTCCTATIO	ATA A AAA -	- A C TANTATA	AAACAATI	CAATAA	TTTAGATA	CATTAATCCT	TAAC A CA 942J.dcm
510	TGTTTCTAT	ATAAA-	- A C T A T T A	AAACAATI	CAATAA	TTTAGATA	CATTAAATTGTC	T A A C A 10936VA.dcm
515	TGTTTCTATT	ATAAA-	- A C T A T T A	AAACAATT	CAATAA	TTTAGATA	CATTTAATTGTC	T A A C A 12256U.dcm
510	TG TTTTCTAT	ATAAA-	- A C TATTA	AAACAATI	CAATAA	TTTAGATA	CATTART	T A.A.C A 14352VA.dcm
516	T = G = T T T C T A T T	ATAAA-	- A C TATTA	AAACAATI	CAATAA	TTTAGATA	CATTARATTC	T A A C A 18847.dcm
514	TG TTTCTATT	ATAAA-	- A C TATITA	AAACAATI	CAATAA	TTTAAGATA	CATITAATTGTC	T A A C A 19791.dcm
516	TG TTTCTATT	ATAAA-	- A C T A T T T A	AAACAATI	CAATAA	TTTAGATA	CATITAATICGTC	T A A C A 21127.dcm-1
1034	TTATTTCTATT	ATGGAAC	TTGTATATG	AAATAATI	TCCCTT	GAAATAAC	AATTTGCCAAT	A & A A A A 14352VA.CDS17.I
1036	TTATTTCTATT	AT GGAAC	T G T A T A T G	AAATAATI	TCCCTT	GAAACAAC	AACTTTGCCAAT	A A A A A A 18847.CDS17.I
1036	CIIATTTCTATT	AT G G A A C	TGTATAT	AAATAATI	TCCCTT	GAAACAAC	AACTTIGCCAAT	A A A A A A 19791.CDS17.I
1035	CIIATTTCTATT	ATGGAAC	TTGTATATG	AAATAATI	TCCCTT	GAAAC	AATTTTGCCAAT	A A A A A A 21127.CDS17.I-1
1036	CIIATTTCATT	ATGGAAC	TTGTATATG	AAATAATI	TCCCTT	GAAAC	AATTTTTGCCAAT	A A A A A A 21127.CDS17.I-2
1036	CTTATTT	ATGGAAC	TTGTATA	AAATAATT	TCCCTT	GAAAATAAC	AATT	A A A A A 21127.CDS17.I-3
1038	CITATTTCATT	C G G ANANC	UT T G TAT A TG	AAATAATI	TCCCTT	GAAATAAC	AATTITTGCCAAT	A A A A A FBG.CDS17.I-1
1038	CITATITICIATI	ACGGAAC	TTGTATATG	АААТААТІ	TCCCTT	GAAATAAC	AATITTGCCAAT	A A A A A FBG.CDS17.I-2
1038	CTTATTTCTATT	ACGGAAC	TTGTATATG	ааатаатт	TCCCTT	GAAATAAC	AATTTTGCCAAT	A A A A A FBG.CDS17.I-3
1031	CTTATTTCTATT	ACGGA AC	TTGTATATG	AAATAATI	T <u>-</u> C C T T	GAAATAC	AATTITTGCCAAT	A A A A A SP10291.CDS17.I
1036	TITATTTCTATT	ATGGAAC	TIGTATATG	AAATAATI	TTCCTT	GAAATAAC	AATTTTGCTAAT	A A A A A A 942J.CDS17.I
1034	CITATTTCTATT	ACGGAAC	TTGTATAT	AAATAATI	TCCCTT	GAAATAAC	AATTTTGCCAAT	A A A A A A 10936VA.CDS17.I
1038	TTATTTCTATT	ATGGAAC	TTGTATAT	AAATAATI	TCCCTT	GAAACAAC	AATTTTGCTAAT	A A A A A A 12256U.CDS17.I
960	ACTATICICTCA	ATICAAC	TGTCATTG	AAATCTAA	GTGCAT	T.T.G.A.T.G.A.T	GATTTGAAAGAA	AAGATA 10936VA.CDS17.II
963	ACTATITICT	ATTCAAC	TGICATITG	AAATCTAA	GTGCAT	TIGATGAT	GATITGAAAGAA	A A G A T A 12256U.CDS17.II-1
963	ACTATTTTCT	ATTCAAC	TGTCATTG	АААТСТАА	GTGCAT	TTGATGAT	GATTTGAAAGAA	A A G A T A 12256U.CDS17.II-2
961	ACTATTTCTTCA	ATTCAAC	TGTCATTG	AAATCTAA	GTGCAT	TTGATGAT	GATTTGAAAGAA	A & G & T & 14352VA.CDS17.II
960	ACTATTTCA	ATTCAAC	TGTCATTG	AAATCTAA	GTGCAT	TTGATGAT	GATTTGAAAGAA	A A G A TA 16753.CDS17.II-1
961	ACTATTTCTTCA	ATICAAC	TGTCATTG	АААТСТАА	GTGCAT	TTGATGAT	GATTTGAAAGAA	A A G A T A 16753.CDS17.II-2
965	ACTATTTCTTCA	ATICAAC	TGTCATTTG	AAATCTAA	GTGCAT	TTGATGAT	GATTTGAAAGAA	A A G A T A 19791.CDS17.II-1
964	ACTATITICT	ATTCAAC	TGTCATTG	AAATCTAA	GTGCAT	TTGATGAT	GATTTGAAAGAA	A A G A T A 19791.CDS17.II-2
953	ACTATITICT	ATICAAC	TGTCATTG	АААТСТАА	GTGCAT	TTGATGAT	GATTTGAAAGAA	AAGATA SP10291.CDS17.II
962	ACTATITICITCA	ATTCAAC	TGICATITG	AAATCTAA	GTGCAT	TIGATGAT	GATITGAAAGAA	A A G A T A 727J.CDS17.II
964	ACTATITICITCA	ATTCAAC	TGTCATTTG	AAATCTAA	GTGCAT	TTGATGAT	GATTTGAAAGAA	A A G A T A 942J.CDS17.II
963	ACTATTTCTTCA	ATTCA AC	TGTCATTG	АААТСТАА	GTGCAT	TTGATGAT	GATTTGAAAGAA	A & G & T & 2740.CDS17.II-1
961	ACTATTTCT	ATTCAAC	TGTCATTG	AAATCTAA	GTGCAT	TTGATGAT	GATTTGAAAGAA	A A G A T A 2740.CDS17.II-2
964	ACTATTTCCTCA	ATTAAAC	TGTCATTG	AAATCTAA	GTGCAT	TTGATGAT	GATTTGAAAGAA	AAGGATA 7447VA CDS17.II

	-IAAAIAAAIC			
	1130	1140	1150 1160 1170 1180 1190	
579			സമംബം മാനർ മിന്നിന്നിന്റെ പ്രിലിമായായില്ലാമായിന്റെ ച്ച്ചായില് പ്രാമാമിന്റിയായില്ല് മായായായായായിന്റ്റി 20127 des	m-2
580	A.T.A.A.A	- ATAAAAAATAT	A ALANTIG AT DIT TT - ALCANGED CANANAT G T A ALT - ALANAT C CALA A ALT ACCT TT A 21127. der	m-3
581			A & A TIG A TIT TIT TIT A C & A C C & A A T G T A A T - A A A T C C A A A A T A C T T A FBG. dom-	1
581	A T A A A	- ATAAAATAT	A A A TIG AIT TIT TIT A C A G C C A A A T G T A A T - A A AT C C A A A A T A C T T A FBG.dcm-	2
581	A T A A A	- A T A A A A A T A T	A A A TIG A T T T T T T T A C A G C C A A A T G T A A T - A A A T C C A A A A T A C T T T A FBG.dcm-	3
576	A T A A A T	- A T A A A A A T A T	AAAATGATTTTT-ACAGCCAAATGTAAT-AAATCCAAAATACTTTA SP10291.«	dcm
580	+ A T A A A + + + - T	- ATAAAATAT	A A A T G A T T T T T T T A C A G C C A A A T G T A A T - A A A T C C A A A A T A C T T T A 942J.dcm	
575	ATAAA T	- ATAAAAATAT	A A A T G A T T T T T T - A C G C C A A A T G T A A T - A A A T C C A A A A T A C T T T A 10936VA.	dcm
580	A T A A A T	- A T A A A A A T A T	A A A T G A T T T T T T T A C A G C C A A A T G T A A T - A A T C C A A A A T A C T T T A 12256U.dd	cm
575	+ A T A A A ] - T	- ATAAAAATAT	A A A T G A T T T T T T A C A - C C A A A T G T A A T - A A A T C C A A A A T A C T T T A 14352VA.	dcm
581	+ A.T.A.A.A.+.+.+ - T	- ATAAAAATAT	A A A T G A T T T T T T - A Y A S C M A A - T G T A A T - A A A T C C A A A A T A C T T A 18847.dcm	n
579	e A.T.A.A.A.	- A.T.A.A.A.A.A.T.A.T.	XAXAXIGAITITITITIACAXGCCCAAAAITGITAAXATCCCAXAAAICGITAAXATCCCAAAAACCCTCTTAA 19791.dog	n .
581			<u>·AAAABCATETTTT-ACACGCCAAABTCTTAAB</u> 21127.dd	n-1 CDC17 T
1104		2 A + C A + C & C A +	(1)1)横索11 0 横索合地(大条)(本条)4 1 0 C 横条(水条)( 9 条)( 0 0 1 横行)( 9 0 0 余利音 横索小衣 1 0 0 1932 A 10 位于 市场 2 市 ( 2 市场)( 1 市場)( 1 市場) 4 市 ( 2 市場))( 1 市場)( 1 市場)( 1 市場)( 1 市場)( 1 市場)	-DS1/.1
1106		CATCAT COCTAT		S17 T
1105	ATGGACAAA	CATIGAT GGCAT	CTATTGATTGATTACTECTAATGCAACGAACGATGCAGGTGTGCGGGGGAAAGGTTGGG 21127.000	517.T-1
1106	ATGGACAAA TC	CATGATGGCAT	CTATTGATACTACTACTAATGCAACAGGATCGGTGTCGGCAAACTTGG 21127.CD	S17.I-2
1106	ATGGACAAA+++TC	CATGATGGCAT	CTATTGATACTACTACTAATGCAACAGGATCGGTGTCGCCAAACCTTGG 21127.CDS	S17.I-3
1108	ATGGACAAATC	CATGATGAT	CTATTGATACTACTACTACTACCACAACAGCATCGGTGTCAOCAACTTGG FBG.CDS1	7.I-1
1108	ATGGACAAATC	CATGACAT	CTATIGATACTACTACTACTACCACACAACAAGCATCGGIGICACCAACACTIGG FBG.CDS1	7.I-2
1108	ATGGACAAATC	CATGGCAT	CTATTGATGCTACTAACTAACCAACGCAACAACAACAACAACGGCAACCAAAACCTAGGFBG.CDD1	7.I-3
1100	H T G G A C A R A H H T C	CATGATGGCAT	C T A TT G A TACTACTACTAR C TAR T G C A A CALGAGAT C AG G T A TC G G C A A A C TT G G SP10291.	CDS17.I
1106		CATGATGCAT	IC T AVITT G AVITALC IVALC IVALA T G C AVACUT G UVANC CAIG T AT TOVARSKAAA AVITTIG G 9422.CDS	17.1 CDC17 T
1109		CATCAT CATCOL	이는 1 (ACA) 1 년 (ACA) A (PA) A (PA) A 문 이 (新文) A (PA) A (	-DS1/.1
1030	TTALLETELLE	GGCANTGGTGG		CDS17 TT
1033	TTALLATALAAGCAT	GGCAATGGTGG		DS17.TT-1
1033	TTAAATAAAGCATC	GGCAATGGTGG	A A A T A A A C A A T A G C A A A T C A A G A T T T A A A C A G - T T A A A T C A 12256U.C	DS17.II-2
1031	TTAAATAAAGCATC	GGCAATGGTGG	A A A T A A T A A C A A T A G C A A A T C A A G A T T T A A A A C A G - T T A A A T C A 14352VA.(	CDS17.II
1030	TTAAATAAAGCATC	AGCAATGGTGG	, A A A T A A A C A A C A A T A G C A A A T C A A G A T T C A A A A C A G C T T A A A T C A 16753.CD	517.II-1
1031	T TAAATAAA G C A TO	AGCAATGGTGG	; A A A T A A A C A A C A A T A S C A A A T C A A C A T T C A A A A C A S - T T A A A T C A I 700 16753.CD	517.II-2
1035	TTAAATAAAGCATC	AGCAATGGTGG	, A.A.A.T.A.A.A.C.A.A.C.A.A.T.A.G.C.A.A.A.T.C.A.A.G.T.T.A.A.A.A.C.A.GT.T.T.A.A.A.C.A.GT.T.A.A.A.T.C.A. 19791.CD	517.II-1
1034	TTAAATAAAGCATC	AGCAATGGTGG	I A A A T A A A C A A C A A T A G C A A A T C A A G A T T T A A A A C A G - T T A A A A T C A 19791. CD	517.II-2
1023	TTRARCARGCATC	AGCARTGGTGG	A A A T A A A C A A C A A C A A T A G C A A A T C A A A A T T T A A A A C A G - T T A A A T C A SP10291.	CDS17.II
1032	T TANANA TANANA G C A TH	G G C A.A.T.G.S.F.G G	A A A TAAA A C A A C A A TA C C A A A C C A A A C C A A A C C A A C A A C A A C A	17.11
1022	T TANANA TANANA G C A TO	A G C A A TOGO TO G	- 高光泉市に高泉水市し、高光泉し、泉市江市の15米泉市泉(10米泉市泉水市)し、泉水泉市の15米の(市)1 1 2 2 月 月 2 2 2 2 2 2 2 2 2 2 2 2 2 2	17.11
1031	TTABATABAGCATC	AGCAATGGTIGG		17.TI-2
1034		ACCANTSCTC		DS17.II
	I INANANANINANANA G C A INC	JA O O ALALLIOLOLI O O	( Eleventicatede) o Eleventicatede el Eleventetetetetetetetetetetetetetetetetete	
	I <u>marataninatana</u> G C A <u>me</u>		i <u>Branan nana</u> go <u>Brajo (Bran nanovona anaj i Koranovan nij i Branana onanoj</u> - 1 <u>Enaja a (1997a</u> ) 744 Maro	
	T <u>imarananananan</u> g C a <u>pino</u>		<u>i mananinanana</u> je <u>minje (atalitateretatata</u> ji <u>peranenanini</u> ji <u>pranananinan</u> ji i <u>tita</u> ja a <u>treta</u> i 74477a G	
	TIGGITCAAATGG-	AAGCAATCGAA	LAATCTTAATGATTTAGCAAAATCATAAA-TATGAATATAT	,
	TIGGTICAAAIGG	AAGCAAICGAA	<u>A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T</u> Majority	ĩ
	TIGGTICAAATGG- 1200	AAGCAATCGAA 1210	<u>AAATCTTAATGATTTAGCAAAA</u> T <u>CAAAA</u> T <u>CAAAAA</u> T <u>ATAAA-TATGAATATAT</u> Majority 1220 1230 1240 1250 1260	ĩ
638	<u>T T G G T T C A A A T G G - 1200</u>	<u>AAGCAAICGAA</u> 1210 - CCCC - ECAAII	<u>ААЛТСТТААТGАТТТАG САААЛ САТААА - ТАТGААТА ТАТ</u> Маjority <u>1220</u> 1230 1240 1250 1260 <u>6 АЛ ТАТ</u> Маjority <u>1210</u> 1250 1260	7 :m-2
638 639	T T G G T T C A A A T G G - 1200 T. T A G A A C A A T T G T. T A G A A C A A T T G T. T A G A A C A A T T G	<u>AAGCAATCGAA</u> 1210 - CCCC - TCAAT - CCCC - TCAAT	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T         Majority           1220         1230         1240         1250         1260           I G A T [T A A T G C C A T A C A T A C A T A A A - T A T G A A T A T A T         Majority         1220         1230         1240         1250         1260           I G A T [T A A T G C C A T A G C A A A C C - [C A T A A A ] A T A A A ] A T A A A A ] A T A A A	/ m-2 m-3
638 639 641 641	<u>T T G G T T C A A A T G G -</u> <u>1200</u> <u>T T A G A A C A A A T T G</u> <u>T T A G A A C A A A T T G</u> <u>T T A A A C A A A T T G</u>	<u>A A G C A A T C G A A</u> 1210 - C C C C - [X:C]A [A]T - C C C C - [X:C]A [A]T - C C C C - [X:C]A [A]T - C C C C - [X:C]A [A]T	AAATCTTAARCERACTAACCAART         CAACATTAAA-TATGAATATAT         Majority           1220         1230         1240         1250         1260           1GATTATGCAARCACAARTCACAART         CAATAAA-TATGAATATAT         Majority           1220         1230         1240         1250         1260           16[AT]TAATGCAARACCAARAC-CAATAAAATATGAATATAA         -ATAAAAATATGAATATAA         1260           16[AT]TAATGCCATACAARAC-CAATAAAATAAAAATAAAAAATAAAAAATAAAAAA	/ m-2 m-3 ·1 ·2
638 639 641 641	<u>Т Т G G T T C A A A T G G - 1200</u> Т Т A G A A C A A A T T G Т Т A G A A C A A A T T G Т Т A G A A C A A A T T G Т Т A A G C A A A T T G Т Т A A A C C A A A T T G Т Т А A A G C A A A T T G	<u>A A G C A A T C G A A</u> 1210 - C C C C C - (MCA A)T - C C C C - (MCA A)T - C C C C - (MCA A)T	AAATCTTAATGCATATGCATAAT         CAATACATTAA         TATGAATA         TATTAATA         TATTAATA         TATATA         TATATA <thtatata< td="" th<=""><td>/ m-2 m-3 -1 -2 -3</td></thtatata<>	/ m-2 m-3 -1 -2 -3
638 639 641 641 641 635	<u>T T G G T T C A A A T G G - 1200</u> T T A GA A C A A A T T G T T A GA A C A A T T G T T A GA A G C A A A T T G T A A G C A A A T T G T A A G C A A A T T G T A A A G C A A A T T G T A A A G C A A A T T G T A A A G C A A A T T G	<u>A G C A A T C G A A</u> 1210 - C C C C C - T C A A - C C C C C - T C A A - C C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C - T C A A - C C C C C - T C C C A A - C C C C C - T C C A A - C C C C C - T C C A A - C C C C C - T C C A A - C C C C C - T C C A A - C C C C C - T C C A A - C C C C C - T C C A A - C C C C C - T C C A A - C C C C C - T C C A A - C C C C C - T C C A A - C C C C C - T C C A A - C C C C C - T C C A A - C C C C C - T C C A A - C C C C C - T C C A A A - C C C C C - T C C C A A A A A A A A A A A A A A A A	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T         Majority           1220         1230         1240         1250         1260           I G [A T] [T A A T G C C A T A G C A A A] C - [C A T A A A [A T ] A [A ] A ] A T A T         Majority           [G [A T] [T A A T G ] C C A T A G C A A A] C - [C A T A A A ] A T ] A [A ] A ] A T A ] A 21127. dc         1250         1260           [G [A T] [T A A T G ] C C A T A G C A A A] C - [C A T A A A ] A T ] A [A ] A ] A T A ] A 21127. dc         137. dc         T A ] A 21127. dc           [G [A T] [T A A T G ] C C A T A G C A A A] C - [C A T A A A ] A T ] A [A ] A ] A T A ] A 21127. dc         T A ] A 21127. dc           [G [A T] [T A A T G ] C C A T A G C A A A] C - [C A T A A A ] A T ] A [A ] A ] A T A ] A 21127. dc	/ m-2 m-3 -1 -2 -3 dcm
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638 639 641 641 641 635 640 634	<u>T I G G I T C A A A I G G - 1200</u> T I A GA A C A A A T I G T I A GA A C A A A T I G T I A GA A C A A A T I G T A A GA A C A A A T I G T A A A G C A A A T I G T A A A G C A A A T I G T A A A G C A A A T I G T A A G A C A A A T I G T A A G C A A A T I G T A A G C A A A T I G T A A G C A A A T I G T A A G C A A A T I G T A A G C A A A T I G T A A G C A A A T I G T A A G C A A A T I G	<u>A A G C A A T C G A A</u> 1210 - C C C C C - C C A A - C C C C C - C C A A - C C C C C - C C A - C C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C C A - C C C C - C C C A - C C C C - C C C A - C C C C - C C C A - C C C C - C C C A - C C C C C - C C C A - C C C C - C C C C C C C C C C C C C C	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T         Majority           1220         1230         1240         1250         1260           T G A T [T A A T G C C A T A G C A A A T A C A T A A A  A T A A A   A   A   A   A   A   A   A	/ m-2 -1 -2 -3 dcm 1 dcm
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638 639 641 641 635 640 634 640 633 639 639	$\begin{array}{c} T \ I \ G \ G \ T \ I \ C \ A \ A \ A \ C \ A \ A \ C \ A \ C \ A \ A$	A A G C A A T C G A A 1210 - C C C C C - C C A A - C C C C C - C C A A - C C C C C - C C A A - C C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C A - C C C C - C C C C A - C C C C - C C C A - C C C C - C C C A - C C C C - C C C A - C C C C - C C C A - C C C C - C C C C C C C C C C C C C C	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T         Majority           1220         1230         1240         1250         1260           T G A T [T A A T G C C A T A G C A A A T A C A T A A A T A T G A A T A T A T         Majority         1250         1260           T G A T [T A A T G C C A T A G C A A A G C - [C A T A A A T A T A A A A A	/ m-2 -2 -3 .dcm idcm idcm m
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638 639 641 641 635 640 634 640 633 639 639 640 1170	$\begin{array}{c} T \ T \ G \ G \ T \ T \ C \ A \ A \ A \ G \ C \ A \ A \ A \ G \ G \ A \ C \ A \ A \ A \ G \ G \ A \ C \ A \ A \ A \ G \ G \ A \ C \ A \ A \ A \ G \ G \ A \ C \ A \ A \ A \ G \ G \ A \ C \ A \ A \ A \ G \ G \ A \ C \ A \ A \ A \ T \ G \ G \ A \ C \ A \ A \ A \ T \ G \ A \ C \ A \ A \ A \ C \ A \ A \ A \ C \ A \ A$	$\begin{array}{c} 1 & 0 & 0 & (2 + 2 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + $	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T         Majority           1220         1230         1240         1250         1260           I G [A T]         T X A T G [C C A T X G C A A A T A C A T A A A - T A T G A A T A T A T         Majority           I G [A T]         T X A T G [C C A T X G C A A A [C - [C A T A A A - ]         -  X T ] A [A ] A ]         1250         1260           I G [A T]         T X A T G [C C A T X G C A A A ]         C - [C A T A A A - ]         -  X T ] A [A ] A ]         X	/ m-2 -1 -2 -3 .dcm k .dcm .dcm m m-1 CDS17.I
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638 639 641 641 635 640 634 639 639 639 639 1170 1173 1173 1173	$\begin{array}{c} T \ T \ G \ G \ T \ T \ C \ A \ A \ A \ C \ A \ A \ T \ G \ C \ A \ A \ C \ A \ A \ T \ G \ C \ A \ C \ A \ C \ A \ A \ C \ A \ A$	$\begin{array}{c} \hline \begin{array}{c} \hline \begin{array}{c} \hline \begin{array}{c} \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \begin{array}{c} \hline \end{array} \\ \hline \end{array} \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \end{array} \\ \hline \end{array} \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \end{array} \\ \hline \end{array} \\ \hline \end{array} \end{array} $ \\ \hline \end{array} \end{array} \\ \hline \end{array} \end{array}  \hline \Biggl \end{array} \end{array} \\ \hline \end{array} \end{array} \\ \hline \end{array} \end{array} \\ \hline \end{array} \end{array} \\ \hline \end{array} \end{array}  \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \end{array} \\ \hline \end{array} \\ \hline \end{array} \end{array}  \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array}  \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \end{array}  \\ \hline \end{array}  \\ \hline \end{array} \end{array}  \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array}  \\ \hline \end{array} \\ \end{array}  \\ \hline \end{array}  \\  \hline \end{array}  \hline \end{array}  \\ \hline \end{array}  \\  \hline \end{array}  \\ \hline \end{array}   \\ \hline \end{array}   \hline  \\ \hline \end{array}    \hline \Biggl   \hline \Biggl   \\ \Biggl $ \end{array} $ \\ $ \end{array} $ \\ $ \end{array} $ \\  \\ $ \end{array} $ \\  \\  \\  \\ $ \end{array} $ \\  \\  \\  \\  \\  \\  \\  \\  \\	A A A T C Ț T A A T G A T T T A G C A A A T A C A Ț A A A - T A T G A A T A T A Ț       Majority         1220       1230       1240       1250       1260         I G [A T] [T Ă A T G] C C A Ț Ă G C A A Ă C - [C Ă T Ă Ă Ă - ]       - [X Ț A A Ț G] C C A Ț Ă G C A A Ă C - [C Ă T Ă Ă Ă - ]       - [X Ț A A Ț G] C C A Ț Ă G C A A Ă C - [C Ă T Ă Ă Ă - ]       - [X Ț A A Ț G] C C A Ț Ă G C A Ă Ă C - [C Ă T Ă Ă Ă - ]       - [X Ț A A Ț G] C C A Ț Ă G C A Ă Ă C - [C Ă T Ă Ă Ă - ]       - [X Ț A Ă Ă Ă Ă A - ]       - [X Ț A Ă Ă Ă A - ]       - [X Ț A Ă Ă Ă C]       - [X Ț A Ă Ț G] C C A Ț Ă G C A Ă Ă C - [C Ă T Ă Ă Ă - ]       - [X Ț A Ă Ă Ă Ă Ă - ]       - [X Ț A Ă Ă Ă C]       - [X Ț A Ă Ă A ]       - [X Ț A Ă Ă Ă C]       - [X Ț A Ă Ă A ]       - [X Ț A Ă Ț G] C A Ț Ă G C A Ă Ă C - [C Ă T Ă Ă Ă - ]       - [X Ț A Ă Ț A ]       - [X Ă Ă Ă G]       - [X Ț A Ă Ț G]       - [X Ă Ă Ă G]       - [X Ț A Ă Ă A]       - [X Ț A Ă Ț G]       - [X Ă Ă Ă G]       - [X Ț A Ă Ț A]       - [X Ă Ă Ă G]       - [X Ț A Ă Ă A]       - [X Ț A Ă Ț A]       - [X Ă Ă Ă G]       - [X Ă Ă Ă A]       - [X Ț A Ă Ă A]       - [X Ț A Ă Ț A]       - [X Ț A Ă Ț A]       - [X Ț A Ă Ț A]       - [X Ă A ]       - [X Ț A Ă A]       - [X Ă A]       - [X Ț A A]       - [X A]       - [X A]       - [X A]       - [X A]       - [X A]       - [X A]       - [X A]       - [X A]       - [X A] </td <td>Y m-2 m-3 -1 -2 -2 -3 .dcm .dcm .dcm .m m-1 .CDS17.I .S17.I .S17.I .S17.I-1 .S17.I-3</td>	Y m-2 m-3 -1 -2 -2 -3 .dcm .dcm .dcm .m m-1 .CDS17.I .S17.I .S17.I .S17.I-1 .S17.I-3
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638 639 641 641 640 635 640 639 640 1170 1172 1172 1172 1173 1175	$\begin{array}{c} T \ T \ G \ G \ T \ T \ C \ A \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ C \ A \ A \ A \ C \ A \ A$	$\begin{array}{c} \begin{array}{c} A \ A \ G \ C \ A \ A \ T \ C \ G \ A \ A \end{array} \\ \hline \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ - \end{array} \\ \hline \begin{array}{c} C \ C \ C \ C \ C \ C \ C \ C \ C \ C $	A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T       Majoritj         1220       1230       1240       1250       1260         1 G [A T [T A A T G C C A T A G C A A A T A C A T A A A T A T       G A A T C T       T A A T G C C A T A G C A A A T A C A T A A A T A T       Majoritj         1 G [A T [T A A T G C C A T A G C A A A C C C T A A A T A T       T A G A A A C A C A C A T A C C A T A A G C A A A C A C A C A C A C A C A C	y m-2 m-3 -1 -2-2 -3 .dcm a .dcm m-1 .CDS17.I .S17.I .S17.I .S17.I .S17.I .S17.I
638 639 641 635 640 633 639 640 1170 1173 1172 1173 1173 1175 1175	$\begin{array}{c} T \ I \ G \ G \ I \ I \ C \ A \ A \ A \ C \ A \ A \ A \ C \ A \ A$	$\begin{array}{c} \textbf{A} \textbf{A} \textbf{G} \textbf{C} \textbf{A} \textbf{A} \textbf{T} \textbf{C} \textbf{G} \textbf{A} \textbf{A} \textbf{T} \textbf{C} \textbf{G} \textbf{A} \textbf{A} \\ \hline \textbf{1210} \\ \hline \textbf{1} - \textbf{C} \textbf{C} \begin{bmatrix} \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{T} \\ \hline \textbf{-} & \textbf{C} \textbf{C} \begin{bmatrix} \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{T} \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} \textbf{C} \textbf{C} \begin{bmatrix} \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \\ \hline \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} \end{bmatrix} \textbf{A} \end{bmatrix} \textbf{C} \\ \hline \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} \\ \textbf{C} & \textbf{A} & \textbf{C} & \textbf{A} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} & \textbf{C} \\ \hline \textbf{C} & \textbf{A} & \textbf{C} & \textbf{A} & \textbf{A} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} & \textbf{A} \end{bmatrix} \end{matrix} \end{matrix} \\ \hline \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} & \textbf{C} \\ \hline \textbf{C} & \textbf{A} & \textbf{C} & \textbf{A} & \textbf{A} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} & \textbf{C} \\ \hline \textbf{C} & \textbf{A} & \textbf{A} & \textbf{C} & \textbf{A} & \textbf{A} & \textbf{C} & \textbf{C} & \textbf{A} & \textbf{C} \\ \hline \textbf{C} & \textbf{A} & \textbf{A} & \textbf{A} & \textbf{A} & \textbf{C} & \textbf{C} & \textbf{A} & \textbf{C} \\ \hline \textbf{C} & \textbf{A} & \textbf{A} & \textbf{C} & \textbf{C} & \textbf{A} & \textbf{C} \\ \hline \textbf{C} & \textbf{A} & \textbf{A} & \textbf{C} & \textbf{A} & \textbf{C} & \textbf{C} \\ \hline \textbf{C} & \textbf{A} & \textbf{A} & \textbf{C} & \textbf{C} & \textbf{A} & \textbf{C} \\ \hline \textbf{C} & \textbf{A} & \textbf{A} & \textbf{C} & \textbf{C} & \textbf{A} & \textbf{C} \\ \hline \textbf{C} & \textbf{A} & \textbf{A} & \textbf{C} & \textbf{C} & \textbf{A} & \textbf{C} \\ \hline \textbf{C} & \textbf{A} & \textbf{A} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} & \textbf{C} \\ \hline \textbf{C} & \textbf{A} & \textbf{A} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{A} & \textbf{C} \\ \end{matrix} \end{matrix} \end{matrix} \end{matrix} \end{matrix} \end{matrix} \end{matrix} \end{matrix} \end{matrix} \end{matrix} \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} & \textbf{C} \end{matrix} \end{matrix} \end{matrix} \end{matrix} $	A A A T C T T A A T G A T I T A G C A A A T A C A T A A A - 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638 639 641 641 640 635 639 639 639 640 1170 1172 1172 1172 1173 1175 1166	$\begin{array}{c} \underline{\mathbf{T}} \ \mathbf{I} \ \mathbf{G} \ \mathbf{G} \ \mathbf{I} \ \mathbf{I} \ \mathbf{G} \$	$\begin{array}{c} \textbf{A} \textbf{A} \textbf{G} \textbf{C} \textbf{A} \textbf{A} \textbf{T} \textbf{C} \textbf{G} \textbf{A} \textbf{A} \\ \textbf{1210} \\ \hline \textbf{1} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{A} \textbf{C} \textbf{A} \\ \textbf{1210} \\ \hline \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{A} \textbf{A} \\ \textbf{T} \\ \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{A} \textbf{A} \\ \textbf{T} \\ \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{A} \\ \textbf{C} \textbf{A} \\ \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \\ \textbf{C} \textbf{C} \\ \textbf{C} \\ \textbf{C} \textbf{C} \\ \textbf{C} \\ \textbf{C} \textbf{C} \\ \textbf{C} \\ \textbf{C} \\ \textbf{C} \textbf{C} \\ \textbf{C} \ \textbf{C} \\ \textbf{C} \ \textbf{C} \\ \textbf{C} \ \textbf{C} \\ \textbf{C} \ \textbf{C} \\ \textbf{C} \ \textbf{C} \\ \textbf{C} \ \textbf{C} \\ \textbf{C} \ \textbf{C} \\ \textbf{C} \ \textbf{C} \\ \textbf{C} \ \textbf{C} \ \textbf{C} \\ \textbf{C} \ \textbf{C} \\ \textbf{C} \ \textbf{C} \\ \textbf{C} \ $	A A A T C T T A A T G A T I T A G C A A A T A C A T A A A - T A T G A A T A T A T       Majority         1220       1230       1240       1250       1260         I G A T T A A T G C C A T A G C A A A T A C A T A A A A T A T G A A T A T A T       Majority       Majority         I G A T T A A T G C C A T A G C A A A T A C A T A A A A T A A A A A T A A A A	y m-2 m-3 -1 -2 -3 .dcm a .dcm icm 517.I 517.I 517.I 517.I 517.I 517.I 517.I 517.I 517.I 517.I 517.I 517.I 517.I 17.I-3 CDS17.I 1
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638 639 641 641 643 635 640 633 640 639 639 640 1173 1172 1172 1173 1175 1175 1175 1175 1175 1175	$\begin{array}{c} T \ T \ G \ G \ T \ T \ C \ A \ A \ A \ T \ C \ A \ A \ A \ T \ G \ G \ A \ A \ C \ A \ A \ A \ T \ G \ G \ A \ A \ C \ A \ A \ A \ T \ G \ G \ A \ A \ C \ A \ A \ A \ T \ G \ G \ A \ A \ C \ A \ A \ A \ T \ G \ G \ A \ A \ C \ A \ A \ A \ T \ G \ G \ A \ A \ C \ A \ A \ A \ T \ G \ G \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ C \ A \ A \ A \ T \ G \ G \ A \ A \ C \ A \ A \ A \ T \ G \ G \ A \ A \ C \ A \ A \ A \ T \ G \ G \ A \ A \ C \ A \ A \ A \ T \ G \ G \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ C \ A \ A$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T       Majority         1220       1230       1240       150       1260         1 G [A T ] T A A T G C C A T A G C A A A T A C A T A A A T A T       G A A T C T T A A T G C C A T A G C A A A C C C T A A A T A T       Majority         1 G [A T ] T A A T G C C A T A G C A A A C - C A T A A A T A T A A A A	y m-2 m-3 -1 -2- -3 .dcm m-1 .cDs17.I .S17.I .S17.I .S17.I .S17.I .S17.I .S17.I .S17.I
638 639 641 641 635 640 633 640 633 640 633 1172 1173 1173 1175 1175 1175 1175 1175 1175	$\begin{array}{c} T \ T \ G \ G \ T \ T \ C \ A \ A \ A \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ C \ A \ A \ A \ C \ A \ A$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T       Majority         1220       1230       1240       1250       1260         I G [A T] [T A A T G] C C A T A G C A A A T A C A T A A A T A T       J A A A T C T       J A A T A C A T A A C A T A A C A T A A C A T A A A	Y m-2 m-3 -1 -2 -2 -3 .dcm .dcm .dcm .m m-1 .CDS17.I .S17.I .S17.I .S17.I .S17.I .S17.I .S17.I .CDS17.II .CDS17.II .CDS17.II .CDS17.II .CDS17.II .DS17.I
638 639 641 641 643 635 639 639 639 639 1173 1173 1173 1173 1173 1175 1175 1175	$\begin{array}{c} \underline{I} \ \underline{I} \ \underline{C} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{C} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{C} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{C} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{C} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{C} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{A} \ \underline{C} \ \underline{A} \ $	$\begin{array}{c} \textbf{A} \textbf{A} \textbf{G} \textbf{C} \textbf{A} \textbf{A} \textbf{T} \textbf{C} \textbf{G} \textbf{G} \textbf{A} \\ \textbf{1210} \\ \hline \textbf{1210} \\ \hline \textbf{1210} \\ \hline \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C}$	A A A T C T T A A T G A T I T A G C A A A T A C A T A A A - T A T G A A T A T A T       Majority         1220       1230       1240       1250       1260         I G A T T A A T G C A T A C A T A C A T A A A T A T       G A A A T C T T A A T G C A T A C A T A C A T A A A T A T       Majority         1 G A T T A A T G C C A T A C C A X A C - C A T A A A T A T A A A A	y m-2 m-3 -1 -2 -3 -3 -dom a .dom m m-1 .CDS17.I .S17.I .S17.I .S17.I .S17.I .S17.I .S17.I .CDS17.I .CDS17.I .CDS17.I .CDS17.I .CDS17.I .CDS17.I .CDS17.I .CDS17.I .CDS17.I 
638 639 641 635 640 634 630 639 640 1170 1173 1173 1173 1173 1175 1166 1172 1171 1174 1175 1166 1172 1171 1174	$\begin{array}{c} T \ T \ G \ G \ T \ T \ C \ A \ A \ A \ T \ G \ G \ A \ A \ C \ A \ A \ T \ G \ G \ A \ C \ A \ A \ T \ G \ G \ A \ C \ A \ A \ T \ G \ G \ A \ C \ A \ A \ T \ G \ G \ A \ C \ A \ A \ T \ G \ G \ A \ C \ A \ A \ T \ G \ G \ A \ C \ A \ A \ T \ G \ G \ A \ C \ A \ A \ T \ G \ G \ A \ C \ A \ A \ T \ G \ G \ A \ C \ A \ A \ T \ G \ G \ A \ C \ A \ A \ T \ G \ G \ A \ C \ A \ A \ T \ G \ G \ A \ C \ A \ A \ T \ G \ G \ A \ C \ A \ A \ A \ T \ G \ G \ A \ C \ A \ A \ A \ T \ G \ G \ A \ C \ A \ A \ A \ T \ G \ G \ A \ C \ A \ A \ A \ T \ G \ G \ C \ A \ A \ A \ T \ G \ G \ C \ A \ A \ A \ T \ G \ G \ C \ A \ A \ A \ T \ G \ G \ C \ A \ A \ A \ T \ G \ G \ C \ A \ A \ A \ T \ G \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ G \ A \ A \ A \ T \ G \ G \ A \ A \ A \ T \ G \ G \ A \ A \ A \ T \ G \ G \ A \ A \ A \ T \ G \ G \ A \ A \ A \ T \ G \ G \ A \ A \ A \ T \ G \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ G \ A \ A \ A \ T \ G \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ G \ C \ A \ A \ A \ T \ G \ G \ C \ A \ A \ A \ T \ G \ G \ C \ A \ A \ A \ T \ G \ G \ C \ A \ A \ A \ T \ G \ G \ C \ A \ A \ A \ C \ A \ A \ A \ A \ C \ A \ A$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T       Majority         1220       1230       1240       1250       1260         1 G [A T ] T A A T G C C A T A G C A A A T A C A T A A A T A T       G A A A T C T T A A T G C C A T A G C A A A G C - C A T A A A T A T       Majority         1 G [A T ] T A A T G C C A T A G C A A A G C - C A T A A A T A T       A G A G A A A C	y m-2 m-3 -1 -2- -3 .dcm n .dcm .dcm .dcm .dcm .dcm .sb17.I .Sb17.I .Sb17.I .Sb17.I .Sb17.I .CDS17.I .T.I-1 .CDS17.I .DS17.I
638 639 641 641 635 640 639 639 639 639 640 1170 1172 1175 1175 1175 1175 1175 1175 1176 1172 1172 1172 1172 1174 1174	$\begin{array}{c} T \ T \ G \ G \ T \ T \ C \ A \ A \ A \ C \ A \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ C \ A \ A \ A \ C \ A \ A$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T       Majority         1220       1230       1240       1250       1260         I G [A T]       T X A T G C C A T X G C A X A C - C X T A A A - T A T G A A T A T A T A A A - T A T G A A T A T A T A A A - T A T G A A T A T A T A A A - T A T G A A T A T A T A A A	y m-2 m-3 -1 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3
638 639 641 641 635 640 634 640 634 640 1173 1175 1175 1175 1175 1175 1175 1175	$\begin{array}{c} T \ T \ G \ G \ T \ T \ C \ A \ A \ A \ T \ G \ G \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ A \ T \ G \ A \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ A \ C \ A \ A \ A \ A \ C \ A \ A$	$\begin{array}{c} \textbf{A} \textbf{A} \textbf{G} \textbf{C} \textbf{A} \textbf{A} \textbf{T} \textbf{C} \textbf{G} \textbf{A} \textbf{A} \\ \textbf{1210} \\ \textbf{1} \\ \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C}$	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T       Majority         1220       1230       1240       1250       1260         1 G [A T ] T A A T G C A T T T A G C A A A T A C A T A A A T A T       G A A T C T T A A T G C C A T A G C A A A T A C A T A A A T A T       Majority         1 G [A T ] T A A T G C C A T A G C A A A C - C A T A A A T A T A A A A	y m-2 m-3 -1 -2 -3 -3 .dcm icm .dcm .dcm .dcm .mb .dcm
638 639 641 641 635 640 639 640 639 640 1173 1172 1172 1172 1175 1175 1175 1175 1175	$\begin{array}{c} T \ T \ G \ G \ T \ T \ C \ A \ A \ A \ T \ G \ G \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ A \ G \ C \ A \ A \ T \ G \ A \ A \ A \ G \ C \ A \ A \ T \ G \ A \ A \ A \ G \ C \ A \ A \ T \ G \ A \ A \ A \ G \ C \ A \ A \ T \ G \ A \ A \ A \ G \ C \ A \ A \ T \ G \ A \ A \ A \ G \ C \ A \ A \ T \ G \ A \ A \ A \ G \ C \ A \ A \ T \ G \ A \ A \ A \ G \ C \ A \ A \ T \ G \ A \ A \ A \ G \ C \ A \ A \ A \ T \ G \ A \ A \ A \ G \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ C \ A \ A$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T       Majority         1220       1230       1240       1250       1260         1 G [A T [T A A T G C C A T A G C A A A T A C A T A A A T A T       G A A A T C T T A A T G C C A T A G C A A A G C - C A T A A A T A T       A A I C T A A T G C C A T A G C A A A G C - C A T A A A	y m-2 m-3 -1 -2- -3 .dcm m m-1 .CDS17.I .S17.I .S17.I .S17.I .S17.I-1 .S17.I .S17.I-1 .S17.I-1 .S17.I-1 .S17.I-1 .CDS17.I .CDS17.I .CDS17.I .CDS17.I .CDS17.I .S17.I-2 .S17.I-2 .S17.I-1 .S17
638 639 641 645 640 639 640 633 640 639 640 1173 1172 1172 1173 1175 1175 1175 1175 1172 1171 1171 1172 1172	$\begin{array}{c} T \ I \ G \ G \ I \ I \ C \ A \ A \ A \ G \ G \ A \ A \ G \ G \ A \ A$	$\begin{array}{c} \textbf{A} \textbf{A} \textbf{G} \textbf{C} \textbf{A} \textbf{A} \textbf{T} \textbf{C} \textbf{G} \textbf{A} \textbf{A} \textbf{T} \textbf{C} \textbf{G} \textbf{A} \textbf{A} \\ \hline \textbf{1210} \\ \hline \textbf{1210} \\ \hline \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C}$	A A A T C T T A A T G A T I T A G C A A A T A C A T A A A - T A T G A A T A T A T         Majority           1220         1230         1240         1250         1260           I G A T T A A T G C C A T A G C A A A T A C A T A A A - T A T G A A T A T A T         Majority         Majority           I G A T T A A T G C C A T A G C A A A T A C A T A A A	y m-2 m-3 -1 -2 -3 -3 -dom a .dom m m-1 .CDS17.I SS17.I SS17.I SS17.I SS17.I SS17.I SS17.I SS17.I CDS17.I CDS17.I CDS17.I CDS17.I CDS17.I CDS17.I CDS17.I SS17.II SS
638 639 641 641 635 640 639 639 639 1170 1172 1172 1172 1173 1175 1175 1175 1175 1175 1175 1171 1174 1109 1100 1100 1100 1101	$\begin{array}{c} T \ T \ G \ G \ T \ T \ C \ A \ A \ A \ T \ G \ G \ A \ A \ T \ G \ C \ A \ A \ C \ C \ A \ A \ T \ G \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ T \ G \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ T \ G \ C \ A \ A \ A \ C \ A \ A \ A \ C \ A \ A$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T       Majority         1220       1230       1240       1250       1260         1 G [A T [T A A T G C C A T A G C A A A T A C A T A A A T A T       G A A A T C T T A A T G C C A T A G C A A A C C       C A T A A A T A T       Majority         1 G [A T [T A A T G C C A T A G C A A A C C C A T A A A T A T       A G A C A T A C C A T A G C A A A C C A T A G C A A A C A C - C A T A A A	Y m-2 m-3 -1 -2- -3 .dcm m m-1 .CDS17.I .S17.I .S17.I .S17.I .S17.I .S17.I .S17.I .CDS17.I .CDS17.I .CDS17.I .CDS17.I .CDS17.I .CDS17.I .CDS17.II .CDS17.II .S1
638 639 641 641 640 639 640 639 640 639 640 1173 1172 1172 1173 1175 1175 1175 1175 1175 1175 1171 1174 1009 1100 1100 1100 1100	$\begin{array}{c} T \ T \ G \ G \ T \ T \ C \ A \ A \ A \ T \ G \ G \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ C \ A \ A$	$\begin{array}{c} \textbf{A} \ \textbf{A} \ \textbf{G} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \ \textbf{C} \ \textbf{G} \ \textbf{A} \\ \textbf{1210} \\ \textbf{1} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{T} \ \textbf{T} \\ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \\ \textbf{T} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \\ \textbf{T} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \\ \textbf{T} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \\ \textbf{T} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \\ \textbf{T} \\ \textbf{T} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \\ \textbf{T} \\ \textbf{T} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \\ \textbf{T} \\ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \\ \textbf{T} \\ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \\ \textbf{T} \\ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \\ \textbf{T} \\ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \\ \textbf{T} \\ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \\ \textbf{T} \\ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \ \textbf{T} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \ \textbf{T} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \ \textbf{T} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \ \textbf{T} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{T} \ \textbf{T} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{C} \ \textbf{A} \ \textbf{A} \ \textbf{C} \$	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T       Majority         1220       1230       1240       1250       1260         I G [A T] [T A A T G] C C A T A G C A A A C - [C A T A A A - ]       - [X T A A A A A - ]       - [X T A A A A A - ]       - [X T A A A A - ]       - [X T A A A A A - ]       - [X T A A A A A - ]       - [X T A A A A A - ]       - [X T A A A A A - ]       - [X T A A A A A A - ]       - [X T A A A A A A - ]       - [X T A A A A A A - ]       - [X T A A A A A A - ]       - [X T A A A A A A A - ]       - [X T A A A A A A A - ]       - [X T A A A A A A A A - ]       - [X T A A A A A A A - ]       - [X T A A A A A A A A A A A A A A A A A A	y m-2 m-3 dom a dom m m- cDS17.I S1
638 639 641 641 640 635 640 639 639 639 1170 1172 1173 1173 1173 1173 1175 1166 1172 1171 1174 1109 1102 1100 1100 1101 1103	$\begin{array}{c} T \ T \ G \ G \ T \ T \ C \ A \ A \ A \ T \ G \ G \ A \ A \ T \ G \ G \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ A \ T \ G \ A \ A \ A \ A \ T \ G \ A \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ A \ C \ A \ A \ A \ A \ C \ A \ A$	$\begin{array}{c} \textbf{A} \textbf{A} \textbf{G} \textbf{C} \textbf{A} \textbf{A} \textbf{T} \textbf{C} \textbf{G} \textbf{A} \textbf{A} \\ \textbf{1210} \\ \textbf{1} \\ \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C} \textbf{C}$	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T         Majority           1220         1230         1240         1250         1260           1 G [A T ] T A A T G C C A T A G C A A A T A C A T A A A - ] A T [A A A] A A         - A T [A A A] A A         - A T [A A A] A A         - A T [A A A] A A           1 G [A T ] T A A T G C C A T A G C A A A C - [C A T A A A A] - ] A T [A A A] A A         - A T [A A A] A A         - A T [A A A] A A         - A A A 1227. dt           1 G [A T ] T A A T G C C A T A G C A A A C - [C A T A A A A] - ] A T [A A A] A A         - A T [A A A] A A         - A T [A A A] A A         - A A A 1227. dt           1 G [A T ] T A A T G C C A T A G C A A A C - [C A T A A A ] - ] A T [A A A] A A         - A T [A A A] A A         - A T [A A A] A A         - A T [A A A] A A           1 G [A T ] T A A T G C C A T A G C A A A C - [C A T A A A ] - ] A T [A A A] A A         - T [A A A] A A         - A T [A A A] A A         - A T [A A A] A A           1 G [A T ] T A A T G C C A T A G C A A A C - [C A T A A A ] - ] A T [A A] A A A         - A T [A A] A A         - A T [A A] A A] A         - T [A A A] A A           1 G [A T ] T A A T G C C A T A G C A A A C - [C A T A A A ] - ] A T [A A] A A A         - A T [A A] A] A A         - T [A A A] A A         - A T [A A] A] A A         - T [A A A] A A           1 G [A T ] T A A T G C C A T A G C A A A C - [C A T A A A - ] A T [A A] A] A A         - T A A A A A A A A A A A A A A A A A A	Y m-2 m-3 -1 -2 -3 -3 -dcm a .dcm m m. .CDS17.I SS17.I SS17.I SS17.I SS17.I SS17.I SS17.I SS17.I SS17.I SS17.I SS17.I SS17.I SS17.I SS17.I SS17.I CDS17.I I SS17.I .CDS17.I I SS17.I .CDS17.I SS17.I SS17.I .CDS17.I SS17.II SS17.
638 641 641 635 640 639 639 639 639 639 639 1173 1172 1172 1173 1175 1175 1175 1175 1175 1175 1175	$\begin{array}{c} T \ T \ G \ G \ T \ T \ C \ A \ A \ A \ T \ G \ G \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ T \ G \ A \ A \ A \ A \ T \ G \ A \ A \ A \ A \ T \ G \ A \ A \ A \ A \ T \ G \ A \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ C \ A \ A \ A \ T \ G \ A \ A \ A \ A \ C \ A \ A \ A \ A \ C \ A \ A$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	A A A T C T T A A T G A T T T A G C A A A T A C A T A A A - T A T G A A T A T A T       Majority         1220       1230       1240       1250       1260         1 G [A T ] T A A T G C C A T A G C A A A T A C A T A A A T A T       J A A A T C T       T A A T G C C A T A G C A A A A C A T A C A T A A A T A T       Majority         1 G [A T ] T A A T G C C A T A G C A A A A C - C A T A A A	Y m-2 m-3 -1 -2- -3 .dcm m .dcm

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				12	70				12	80				1290	)			1	300				13	310				1320			133	0
695	TT	GAG	AA	CAU	A (	GT	CT	TTT 7	AC	AT	AA	CA7	A C -		TAD	A A	CAR	AT	GC	GT	TG	AA	AT	A A	TCA	AG	G G G	TT	GTI	AAG	GTA	21127.dcm-2
696	TT	GAG	AA	CAI	A	GT	CT.	TT7	ACI	AT	AA	CA 7	AC		TA	AA	CAA	AT	GC	GT	TG	AA	AT	AA	TCA	AG	GGG	ТТ	GTI	AAG	GTA	21127.dcm-3
698	TA	GAG	AA	TAJ	A I	GΤ	C T	ττ <sub>1</sub>	ACI	AT	A A	CG	A C	<u> -</u> -	ТА	A A	CAA	AT	GC	GT	TG	A A	AT.	A A	тса	AG	GGG	ТТ	GTI	AAA	GTA	FBG.dcm-1
698	TA	GAG	AA	TAT	A A	G T	ст	1 1 7	A C I	AT	AA	CG	alc -	2 _ ·	ТА	A A	CAA	AT	GС	GT	T G	AA	A T	A A	тСА	AG	G G G	ТТ	GII	AAA	GTA	FBG.dcm-2
698	TA	GAG	AA	TAZ	A	GT	CT	TT7	ACI	AT	AA	CG	AC	- 1	TA	AA	AA	AT	GC	GT	TG	AA	AT	AA	TCA	AG	G G G	ТТ	GII	AAA	GIA	FBG.dcm-3
691	TT	GAG	AA	CA 1	A	GT	CT	TT7	ACI	AT	AA	CA	AC	2 <u>-</u> '	TA	A A	CAA	AT	GC	GT	TG	AA	AT	A A	TCA	AG	G G -	ТТ	GTI	AAG	GTA	SP10291.dcm
697	TT	GAG	AA	CAI	A I	GT	C T	II/	A C I	AT	A A	CA	a c	3 <u>-</u> 1	ТАЙ	A A	CAA	AT	GC	GT	T G	λA	ΑT	λA	тса	AG	G G G	ТТ	GTI	AAG	GTA	942J.dcm
691	TA	GAG	AA	TAI	A	GT	CT.	1 T 7	ACI	AT	AA	CG	A C	- 1	TAI	A A	CAA	AT	GC	GT	TG	AA	A T	A A	TCA	AG	GGGG	ТТ	GII	AAA	GTA	10936VA.dcm
696	TA	GAG	AA	TAZ	A	GT	CT	TT7	ACI	AT	AA	CG	AC	<u>-</u>	TA	A A	CAA	AT	GC	GT	TG	AA	AT	AA	TCA	AG	GGGG	ТТ	GTI	AAG	GTA	12256U.dcm
689	TT	GAG	AA	CAI	A	GT	ст.	TT7	A C I	AT	AA	CA	A C	<u> </u>	ТА	A A	CAA	AT	GC	GT	TG	AA	AT	A A	тСА	AG	GGG	ТТ	GTI	AAG	GTA	14352VA.dcm
696	TT	GAG	A A	CAJ	A	GT	C T	r r 7	ACI	AT	A A	CG	A C	9 - 1	TA	A A	CAA	AT	GC	GT	TG	AA	AT.	A A	тса	AG	GGGG	ТТ	GTI	AAG	GIA	18847.dcm
695	TT	GAG	AA	CAJ	A	GT	C T	1 T 7	ACI	AT	AA	CA	A C	- 1	TA	A A	CAA	AT	GC	GT	T G	AA	AT	A A	TCA	AG	G G G	ТТ	GII	AAG	GIA	19791.dcm
697	TT	GAG	AA	CA 7	A A	GT	СТ	Г.Т.7	ACI	AT	AA	CA	A C	<u> </u>	TA	A A	CAA	AT	GC	GT	TG	AA	AT	A A	TCA	AG	G G G	ТТ	GTI	AAG	GIA	21127.dcm-1
1239	TT	GAT	AG	TA 1	ΥT	ГΤ	СТ	rC	T T 1	GT	AT	CA	A A I	A G	cC	A C	CGA	c c	ΤТ	CI	T G	AA	TT	A A	ATA	GA	CA	GC	A T 7	GAA	TIG	14352VA.CD517.I
1242	TT	GAT	A G	CAI	T	I T	CI	r c i	I I I	GC	A T	CA.	A A I	A G	c 😳	A C	AGÄ	C C	TT	CT	TG	AA	TT	A A	ATA	GA	G A ÷	GC	A T A	GAA	TTG	18847.CD517.I
1241	T T	GA T	A.G	TAI	( T )	T T	C.T.	r c i	T T 1	GT	AT	C.A.)	A A I	A G	C C i	AC	T G A	сс	TT	G C	T G	AA	TI	A A	ATA	GA	C A 🕂	GC	ATI	GAA	TTG	19791.CDS17.I
1241	TT	GΑT	A G	TAI	ΥT	ΓT	C T '	I C I	I T 1	GΤ	AT	C A 7	A A I	A G	C C J	A C	CGA	CC	ΤT	GC	TG	AA	TT	A A	ATA	G 🗛	CA 🕂	GC	A T I	GAA	TTG	21127.CDS17.I-1
1242	TT	GAT	A G	TAI	۱T (	ΤT	ст.	I C	IT ]	GΤ	AT	CA 7	A A I	A G	C C	A C	CGÄ	СС	ΤТ	GC	TG	AA	TT	A A	ATA	G 🗛	C A 🗄	GC	A T I	GAA	TTG	21127.CDS17.I-2
1242	TT	GAT	A G	TAJ	L T	T T	C T	r c :	T T I	GT	A T	CA	A A I	A G	C C J	AC	GGÀ	СС	ТТ	GC	T G	AA	T T.	A A	ATA	GA	CA 🕂	GC	ATJ	GAA	TTG	21127.CDS17.I-3
1244	TT	GAT	AG	TAI	ΥT	Г.Т	C T	E C 3	1 T 1	GΤ	A T	CAJ	A A I	A G	C C i	A C	T G A	СС	T T	GC	T.G	AA	TT	A A	ATA	GA	CA	GC	A T 2	GAA	TTG	FBG.CDS17.I-1
1244	TT	GAT	A G	T A 7	X T I	T T	CΤ	£ C 3	ΤŢΊ	GT	🔺 T	CAU	A A I	A G	C C i	A C	T G 🖀	СС	TT	GC	TG	AA	TI	A A	ATA	GA	CA ∺	GC	A TZ	GAA	TTG	FBG.CDS17.I-2
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1235	TT	GAT	A G	TAI	ΥT	ΓT	CT	t C	I I J	GT	A T	CAJ	A A 1	AG	CC	A C	AGÀ	СС	ТТ	GC	T G	A A	TT	A A	ATA	GA	<u>C</u> A –	GC	A T A	GAA	TTG	SP10291.CDS17.I
1241	T.T.	G A T	A G	TAI	ιT.	T T	CT 1	I C	111	<u>6</u> T	ΑT	CAI	A A 1	A G	C C	AC:	AGÀ	СС	TT	<u> </u>	T G	AA	TŤ	A A	АТА	GA	<u>G</u> A -	GC	A T.1	GAA	TTG	942J.CDS17.I
1240	TT	GA T	A.G	TA /	ιT.	I T	C T	t C i	I T J	GT	A T	CA.	A A I	A G	C C )	A C	GGA	СС	TT	CT	TG	A A	TT	A A	ATA	G A	c 🔄 –		A T I	GAA	TTG	10936VA.CDS17.I
1243	TT	GAT	A G	CA	۱T (	TТ,	<u>C T</u>	101	T T J	GT	AT	CA 1	A A I	AG	CC	AC	T G A	CC	ΤŢ	GC	CG	A A	TT	<u>A</u> A	ATA	GA	CA 🕂	GC	ATI	GAA	TTG	12256U.CDS17.I
1162	ΤŤ.	A A T	A G	TAJ	L T	TΤ	TA	T 1	T T I	GI	A A	AT (	ငေရှ	GG	G C I	A A	I A A	TT	TG	GA	TG	A A	A T	TA	ATG	C A	T - 3		- T J	GAA	A C A	10936VA.CDS17.II
1166	TT.	A A T	A G	TAI	1 T (	I I	TA	I T	111	G T	A A	AT (	CA	G	G C I	A A	TAA	T T	TG	GA	T 6	A A	A T	T A.	ATG	CA	T - 🗄		- 11	GAA	ACA	12256U.CDS17.II-1
1166	TT	AAT	A G	T A 7	λ.Τ.:	ГТ	TA	Г.Т. Т	T T I	G.T	A A	AT (	CA	G	G C I	A.A.	I A A	TT	TG	GA	T G	A A	A T	T A	ATG	C A	T - 🗄		- I 2	GAA	ACA	12256U.CDS17.II-2
1164	TT	A A T	AG	TAI	ΥT	ГТ	TA	ΓT	II]	GT	A A	A T (	CGO	GG	GC	A A	ТАА	ТТ	TG	GA	TG	A A	AT	TA	ATG	CA	T		- T 2	GAA	ACA	14352VA.CDS17.II
1164	T.T.	A A T	A G	TAI	I I	I T	TAP	[ T ]	II]	GT	A A	A T (		ေရြ	GCJ	A A	TAA	TT	TG	GA	TG	A A	A T	TA	ATG	C A	T - 🕀		- T 2	GAA	ACA	16753.CDS17.II-1
1163	T.T.	A A T	A.G	TAI	I.T.	Г.Т.	TA	fT	T T 1	G. T	A A	AT (	CA		G.C.I	A A	T.A.A	TT	TG	GA	T.G	A A	AT	TA	ATG	C . A	T - 3		- T 1	GAA	A C A	16753.CDS17.II-2
1168	T.T.	AAT	A G	TA	ι T	ΓT	TA	[ T ]	I T ]	GT	A A	A T (	CAC	G	G C ,	A A	T A A	TT	TG	GA	TG	A A	A T	CA	ATG	C A	T		- T 7	GAA	A C A	19791.CDS17.II-1
1167	T.T.	A A T	A G	, T A I	IT.	ТΤ	TA	[ T ]	ITI	GT	A A	A T (	CAI	GG	GC	A A	ГАА	TT	TG	GA	ΠG	A A	AT	CA	ATG	C A	T - 🗄		- T I	GAA	A C A	19791.CDS17.II-2
1155	TI	A A T	A G	CA.	ιT	ΓT	TA	T 1	TTI	GΤ	A A	AT (	CA	GG	GC	A A	I A A	ΤT	TA	GA	CIG	A A	A T	TA	ATG	C R	T - 🗄		- T J	GAA	a C C	SP10291.CDS17.II
1164	TT	AAT	A G	TAJ	1.T.	F. T.	TA	F. T.	F. T. 1	G.T.	AA	A T (	CA	G .G.	G.C.	A A	I A A	T.T.	T. G	G. A	T	A.A.	AT	T A.	A T G	C.A	T - 🕁		- T 1	GA A	A C A	727J.CDS17.II
1166	TT	AAT	A G	T A 7	λ.Τ.:	I T	TA	Г. Т. I	T. T. I	GT	A A	AT(	CA	G	GC	A.A.	I.A.A	T T	TG	GA	T G	A A	A T	TA	ATG	C A	T - 🗄		- T 2	GAA	ACA	942J.CDS17.II
1165	TT	A A T	AG	TAI	۱T (	ГТ	TA	[ T ]	II1	GŢ	A A	A T (	CA	G	GC	A A	ТАА	TI	TG	GA	TG	A A	AT	TA	ATG	СА	T - 😤		- I 2	GAA	ACA	2740.CDS17.II-1
1163	T T	A A T	A G	TAI	I.T.	ΓT	TA	C . T . 1	I I ]	G T	A A	AT (	CA	GG	G.C.J	A A	TAA	TT	TA	GA	TG	A A	A T	TA	ATG	C A	T		- T 7	GAA	ACA	2740.CDS17.II-2
1167	T.T.	A A.T.	A. G	TAI	1.1	Г. Т.	TA	1.T.1	I I I	G T	A A	AT (	C 🗛 (	GG	G. C. J	A.A.	T.A.A	TT	TG	G A	T G	A A	A.T.	TA	A. T. G	C. A.	T - 🗄		- T.)	GAA	ACA.	7447VA CDS17.II

	CAAAAT - AATAAAGC	дсттаатааа	AATAAGTTAG	CATAAATGACT	таттататадасааа	A A - C A A G C T Majority
	1340	1350	1360	1370	1380 1390	1400
763 764 766 758 759 764 757 763 765 1308 1311 1310 1310 1311 1313 1313 1313	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
1233 1232 1220	C A A A A T C A A T T A A A C C A A A T C A A T T A A A C C A A A T C A A T T A A C C A A A T C A A T T A A C C A A A T C A A T T A A C	G C T T C T G A A A G C T T C T G A A A G C T T C T G A A A G C T T C T G A A A	TATCAGCGAA TATCAGCGAA TATCAGCAAA TATCAGCAAA	CATAAACCCCT CATAAACCCCT CATAAACCCCT CATAAACCCCT	T A T T A T T T A A A C A A A A T A T T A T T A A A C A A A A	A A C A A G C A 19791.CDS17.II-1 A A - C A A G C A 19791.CDS17.II-2 A - C A A G C A 19791.CDS17.II-2 A - C A A G C A SP10291.CDS17.II
1229 1231 1230 1228 1232	CAAAATCAATTAAAC CAAAATCAATTAAAC CAAAATCAATTAAAC CAAAATCAATTAAAC CAAAATCAATTAAAC	G C T T C T G A A A G C T T C T G A A A G C T T C T G A A A G C T T C T G A A A A C T T C T G A A A	TATCAGCCAA TATCAGCGAA TATCAGCGAA TATCAGCCAA		$\begin{array}{c} \mathbf{I} \mathbf{A} \mathbf{I} \mathbf{I} \mathbf{A} \mathbf{I} \mathbf{I} \mathbf{A} \mathbf{I} \mathbf{I} \mathbf{A} \mathbf{I} \mathbf{I} \mathbf{A} \mathbf{A} \mathbf{I} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} A$	A A CAAGCA 942J.CDS17.11 A A CAAGCA 942J.CDS17.11 A A CAAGCA 2740.CDS17.11-1 A A CAAGCA 2740.CDS17.11-1 A A CAAGCA 7447VA CDS17.11-2

	TATGTAAGT	GCTTGT	A - T T A A	TAAA1	GGCA	АТАА	TATTA	AGGGAA	татти	ATCAA	TGGT	ттсто	AAAATA	Majority
	1	410	1420		1430	)	1	140	14	150	1	460	147	0
826	TATTTARGA	GTTATT	ACACCA	TTAGI	AGCA	A T G C	TATTA	ATGGCC	TATG	ATCAGO	AAGA	TTATO	AAAGAA	21127.dcm-2
827	TATTTAAGA	GTTATT	A C A C C A	TTAGI	AGCA	A TIG C	TATTA	ATGGGC	TATG	A.T.C.AGO	AAGA	TTATO	AAAGAA	21127.dcm-3
829	TATITAAGG	GITATT	ACACCA	TTAGI	AGCA	ATGC	TATTA	ATGGGC	TATG	ATCAGO	AAGA	TTATO	AAAGAA	FBG.dcm-2
829	TATTTAAGG	GTTAT	ACACCÀ	TTAGI	AGCA	ATGC	TATTA	ATGGGC	TATG	A T C A G C	AAGA	TTATO	AAAGAA	FBG.dcm-3
821	TATTTAAGA	GTTATT	ACACCA	TTAGI	AGCA	ATCC	TATTA	AT G G G A	TATG	ATCARC	AAGA	TTATO	AAAGAA	SP10291.dcm 942.L.dcm
822	TATITAAGG	GTTATT	ACACCA	TTAGI	AGCA	A T G C	TATTA	ATGGGC	TATG	ATCAA	AAGA	TTATO	AAAGAA	10936VA.dcm
827	TATTTAAGA	GTTATT	A C A C C A	TTAGI	AGCA	ATGC	TATTA	ATGGGA XTGGGC	TATG	ATCAAO	AAGA	TTATO	AAAGAA	12256U.dcm
827	TATTTAAGA	GITATT	ACACCA	TTAGI	AGCA	ATGC	TATIA	A T G G G C	TATG	ATCAA	AAGA	TTATO	AAAGAA	18847.dcm
826	TATITAAGA	GITATT	ACACCA	TTAGI	AGCA	ATGC	TATTA	ATGGGC	TATG	ATCAGO	AAGA	TTATO	AAAGAA	19791.dcm
1374	TATC-GAG-	GCTTGC	AATAT	CCTT	TGAA	AGAT	TAGAA	AGAGAA	TATT	ATCAAI	TTAC	ATCT	TTAATT	14352VA.CDS17.I
1377	TATCES-	GCTTGC	AATTAT	ССТТ	TGAA	AGAT	TAGAA	AGAGAA	ΤΑΤΤ	АТСААА	ТТАС	ATCTI	TTAATT	18847.CDS17.I
1376	北京日に1日日第一	GCTTGC	AATTAT	сстта	TGAA	AGAT	TAGAA	AGAGAA	TATT	AICAAJ ATCAAJ	TTAC	ATCTA	TTAATT	21127.CDS17.I-1
1377	TATCIGAG-	G.C.T.T.G C	A A T T A T	ССТТ	TGAA	AGAT	TAGAA	A G A A	TATT	ATCAAI	ТТАС	ATCT	ТТААТТ	21127.CDS17.I-2
1377	TATCTGAG-	GCTTGC	AATTAT	CCTT	TGAA	AGAT	TAGAA	AGAGAA	TATT	ATCAAJ BTCABJ	TTAC	ATCTZ	TTAATT	21127.CDS17.I-3 FBG.CDS17.I-1
1379	TATCTGAG-	G.C.T.T.G C	AATTAT	ССТТ	TGAA	AGAT	TAGAA	AGAGAA	TATT	A T C A A I	TTAC	ATCT	TTAATT	FBG.CDS17.I-2
1379	TATCTCAGAG	GCTTCC	AATTAT	CCTT	TGAA	AGAT	TAGAA	AGAGAA	TATI	ATCAAI	TTAC	ATCT	TTAATT	FBG.CDS17.I-3
1376	TAGCCGAA -	GCTTGC	AATTAT	CCTT	TGAA	AGAT	TAGAA	AGAGAA	TATT	ATCAAJ	TTAC	ATCT	TTAATT	942J.CDS17.I
1373	TATC-GAG-	GCTTGC	AATTAT	ССТТ	TGAA	AGAT	TAGAA	AGAGAA	TATT	АТСААЈ	TTAC	ATCTZ	TTAATT	10936VA.CD517.I
1293	TATGCAAGT	GCTTGT		TAAAI	GGTG	ATAA	TATTG	- G G G A T	GATT	TAGAAZ	TGGT	TTGA-		122560.CD517.1
1300	TATGCAAGT	GCTTGT	- T.T.A.A	TAAAI	GGTG	АТАА	TATTG	- GGGAT	GATT	TAGAA7	TGGT	TTCA	AAATA	12256U.CDS17.II-1
1300	TATGCAAGT	GCTTGT	T T A A	TAAAI	GGTG	ATAA	TATTG	- G G G A T	GATT	TAGAAA	TGGT	TTGAC	A A A A I A A A A A A A A A	122560.CDS17.II-2 14352VA.CDS17.II
1295	TATGCAAGT	GCTTGT	- T T A A	TAAAI	GGTG	ATAA	TATTG	- G.G.G.A T	GATT	TAGAA	TGGT	TITA	- A A A T A	16753.CDS17.II-1
1293	TATGCAAGT	GCTTGT	T T A A T T A A	TAAA1	GGTG	АТАА атаа	TATTG	- G G G A T	GATT	TAGAAJ	TGGT	TTCAC		16753.CDS17.II-2
1301	TATGCAAGT	GCTTGT	T.T.A.A	TAAA1		ATAA	TATTG	- G.G.A.T	GATT	TAGAAI	TGGT	TTCA	AAAATA	19791.CDS17.II-2
1288	TATGCAAGC	GCTTGT		TAAAJ	GGTG	ATAA	TATTG	- G G G A T	GATT	TAGAAZ	TGGT	TTCA	AAAATA	SP10291.CDS17.II
1300	TATGCAAGT	GCTTGT	T.T.A.A	TAAAI	GGTG	ATAA	TATTG	- GAGAT	GATT	TAGAA	TGGT	TTCA	AAATA	942J.CDS17.II
1298	TATGCAAGT	GCTTGT	T T A A	TAAA1	GG TG	ATAA	TATTG	- G.G.G.A T	GATT	TAGAA	TGGT	TTCAC	AAAATA	2740.CDS17.II-1
1301	TATGCAAGT	GCTTGT	T T A A	TAAAI	GGIG	ATAA	TATTG	- G G G A T	GATI	TAGAAJ	TGGT	TTCA	AAATA	7447VA CDS17.II
	TTTCAAGAG	<u>GTTGGG</u>	<u>GTTTTG</u>	A-AAI	TCAG	AATT	ATAAT	GATAAA	ACTCO	CATTAT	TATT	AGGCT	ATTGAT	Majority
896	TTTCAAGAG 1	<u>G T T G G G</u> 480 т с Пторіт Грі	<u>G T T T T G</u> 1490 a Tha G Tric	A - A A I	<u>тса</u> 1500			GATAAA 310 516	<u>АСТСО</u> 15 міт Газорія	20		AGGCT 530	ATTGAT 154	Majority 0 21127.dcm-2
896 897	TTTCAAGAG 1 TTAAGAATT	<u>G T T G G G</u> 480 T C T.G T G T C T.G T G	GTTTTG 1490 ATAGTC ATAGTC	A - A A I A - A A I A - A A I		AATT ) AAGT AAGT	ATAAT 1 TRGCT TRGCT	G A T A A A 10 G G A A G G A A	<u>ACTCC</u> 15 <u>ATTCC</u> ATTCC	CATTAT 20 TATTGT	TATT 1 TGTT GTT	AGGCT 530 AATGT AATGT	<u>ATTGAT</u> 154 <u>ATTA-C</u> <u>ATTA-C</u>	Majority 0 21127.dcm-2 21127.dcm-3
896 897 899	TTTCAAGAG 1 TTTAAGAATT TTTAAGAATT TTTAAGAATT	<u>G T T G G G</u> 480 T C T G T G T C T G T G T C T G T G T C T G T G	GTTTG 1490 ATAGTC ATAGTC ATAGTC	A - A A I A - A A I A - A A I A - A A I A - A A I A - A A I	TCAG 1500 TTAT TAT TAT	AATT AAGT AAGT AAGT	ATAAT 1 TAGC TAGC TAGC	G A T A A A 10 G G A(A) G G A(A) G A(A) G A(A)	ACTCO 15 ATTCO ATTCO ATTCO ATTCO ATTCO		TATT 1 TGTT TGTT TGTT	AGGCT 530 ATGT ATGT ATGT	$\begin{array}{c} A T T G A T \\ 154 \\ \hline A T T A - C \\ A T T A - C \\ A T T A - C \\ A T T A - C \\ A T T G - C \\ \hline A T T G - C \end{array}$	Majority 0 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2
896 897 899 899 899	<u>T T T C A A G A G</u> 1 <u>T T A A G A A T T</u> 2 A A G A A T T 7 2 A A G A A T T 7 2 A A G A A T T 7 2 A A G A A T T 7 2 A A G A A T T	G T T G G G 480 T C T G T G T C T G T G	GTTTTG 1490 ATAGTC ATAGTC ATAGTC ATAGTC ATAGTC	A - A A I A - A A I A - A A I A - A A I A - A A I A - A A I A - A A I	T C A G I 1500 T A T T A T T A T T A T T A T T A T T A T	AATT AAGT AAGT AAGT AAGT AAGT	ATAAT 1 TRGCT TRGCT TRGCT TRGCT TRGCT TRGCT	<u>G A T A A A</u> 510 G G <b>A</b> A G G <b>A</b> A G G <b>A</b> A G G <b>A</b> A G G <b>A</b> A		20 TATTGT TATTGT TATTGT	TATT 1 GTT GTT TGTT TGTT TGTT	AGGCT 530 ATGT ATGT ATGT ATGT ATGT ATGT	ATTGAT 154 ATTA - C ATTA - C ATTA - C ATTA - C ATTA - C ATTA - C ATTA - C	Majority 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3
896 897 899 899 899 891 898	$ \underline{T T T C A A G A G} 1 1 1 \overline{T T A A G A A T T} 1 \overline{T T A A G A A T T} 1 \overline{T T A A G A A T T} 1 \overline{T T A A G A A A G A A T T} 1 \overline{T T A A G A A T T} 1 \overline{T T A A G A A T T} 1 \overline{T T A A G A A T T} 1 \overline{T T A A G A A T T} 1 \overline{T T A A G A A T T} 1 \overline{T T A A G A A T T} 1 \overline{T T A A A G A A T T} 1 \overline{T T A A A G A A T T} 1 \overline{T A A A G A A A T T} 1 \overline{T A A A G A A T T} 1 \overline{T A A A G A A T T} 1 \overline{T A A A G A A T T} 1 \overline{T A A A G A A T T} 1 \overline{T A A A G A A T T} 1 \overline{T A A A G A A T T} 1 \overline{T A A A G A A T T} 1 \overline{T A A A G A A T T} 1 \overline{T A A A G A A T T} 1 \overline{T A A A G A A T T} 1 \overline{T A A A G A A T T} 1 \overline{T A A A G A A T T T} 1 \overline{T A A A G A A T T T} 1 \overline{T A A A G A A T T T} 1 \overline{T A A A G A A T T T} 1 \overline{T A A A G A A T T T} 1 \overline{T A A A G A A T T T} 1 \overline{T A A A G A A T T T} 1 \overline{T A A A G A A T T T} 1 \overline{T A A A G A A T T T} 1 \overline{T A A A G A A T T T} 1 \overline{T A A A G A A T T T} 1 \overline{T A A A G A A T T T} 1 T A A A G A A T A T A A A G A A T T T T $	G T T G G G 480 T C T G T G T C T G T G	GTTTTG 1490 A TAGTCCA A TAGTCCCA A TAGTCCCA A TAGTCCCA A TAGTCCCA A TAGTCCCA A TAGTCCCA A TAGTCCCA		T C A G 1500 T A T T A T T A T T A T T A T	A A T T A A G T A A G T A A G T A A G T A A G T A A G T A A G T A A G T	ATAAT 1 TESGCCS TESSCCCS	<u>5 A T A A A</u> 5 G <u>A A</u> 6 G <u>A A</u> 6 G <u>A A</u> 6 G - <u>A A</u> 6 G - <u>A A</u> 6 G - <u>A A</u> 6 G - <u>A A</u>		20 20 20 20 2 2 7 7 6 7 2 7 7 7 6 7 2 7 7 7 7 2 7 7 7 7 2 7 7 7 7 2 7 7 7 7 2	TATT 1 TGTT TGTT TGTT TGTT TGTT TGTT	AGGCT 530 530 ATGT ATGT ATGT ATGT ATGT	ATTGAT 154 ATTA - C ATTA - C - C ATTA - C - C - C - C - C - C - C - C	Majority 0 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 9407.dcm
896 897 899 899 891 898 892	$\begin{array}{c} \underline{I \ T \ C \ A \ A \ G \ A \ G \ } \\ 1 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ \hline 2 \\ \hline 1 \hline 1$	G T T G G G 480 T C T G T G T C T G T G T G T C T G T G T G T C T G T G T G T C T G T G T G T C T G T G T G T C T G T G T G T G T C T G T G T G T G T C T G T G T G T G T C T G T G T G T G T C T G T G T G T G T G T G T C T G T G T G T G T G T G T G T G T G	G T T T T G 1490 A T A G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G G T C C A T A G C T C C C A T A G C T C C C C A T A G C T C C C C C C C C C C C C C C C C C		T C A G 1500 T A T T			<u>SATAAA</u> 10 <del>GG-AA</del> <del>GG-AA</del> <del>GG-AA</del> <del>GG-AA</del> <del>GG-AA</del> <del>GG-AA</del> <del>GG-AA</del> <del>GG-AA</del> <del>GG-AA</del> <del>GG-AA</del>			TATT 1 TGTT TGTT TGTT TGTT TGTT TGTT TGT	A G G C T 530 530 A T G T G T G T G T G T G T G T G T G T	<u>ATTGAT</u> <u>154</u> <u>ATTA</u> - C <u>ATTA</u> - C <u>ATTG</u> - C	Majority 0 21127.dcm-2 7BG.dcm-1 FBG.dcm-1 FBG.dcm-3 SP10291.dcm 942J.dcm 1938VJ.dcm
896 897 899 899 899 891 898 892 892		G I I G G G           480           I C I G I G           I C I G I G           I C I G I G           I C I G I G           I C I G I G           I C I G I G           I C I G I G           I C I G I G           I C I G I G           I C I G I G           I C I G I G           I C I G I G           I C I G I G           I C I G I G           I C I G I G           I C I G I G	G T T T T T G 1490 A G C C C C C C A X A A G C C C C C C A X A A G C C C C C C C A X A A G C C C C C C C C C C C C C C C C C	A - A A I A - A A I A A A I A A A I A A A I A A A I A A A I A A A I A A A I A A A I A A A I A A A I A A A I	T C A G 1500 T A T T			<u>5 A T A A A</u> 510 5 G A A 5 G A A A 5 G A A A 5 G A A A 5 G A A A 5 G A A A 5 G A A A 5 G A A A 5 G A A A 5 G A A A 5 G A A A 5 G A A A 5 G A A A 5 G A A A 5 G A A A 5 G A A A 5 G			TATT I GITT GITT GITT GITT GITT GITT TGTT TGTT T	AGGCT 530 ATTGER AATTGER AATTGER AATTGER AATTGER AATTGER	$\begin{array}{c} \underline{A \ T \ T \ G \ A \ T \\ \hline 154} \\ \hline 157 \\ \hline 15$	Majority 0 21127.dcm-2 7BG.dcm-1 FBG.dcm-1 FBG.dcm-3 S910291.dcm 942J.dcm 10936VA.dcm 12356U.dcm
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        -         A         A           G         G         -         -         A         A           G         G         -         -         A         A           G         G         -         -				A G G C T 530 G T T T G G T T T G G T A T T G G G T T T G G G A T T G G G T T T G G G A T T G G G T T T G G G A T T G G G T T T G G G A T T G G G T T T G G G C T T T G G G T T T G G G G C T T T G G G G T T T G G G C T T T G G G G T T T G G G C T T T G G G G T T T G G G C T T T G G G G G G G G C T T T G G G G G G G G G C T T T G G G G G G G G G G G G G G G G	A T T G A T 154 A T T A - C A T T T A - C A T T T A - C A T T T A - C A T T T A - C A T T T A - C A T T T A - C A T T T A - C A T T T A - C A T T T A - C A T T T A - C A T T T C A - C A T T T C A - C A T T T C A - C A T T T C A - C A T T T C A - C A T T T C A - C A T T T C A - C A T T T C A - C A T T T A - C	Majority 0 21127.dcm-2 21127.dcm-3 FBG.dcm-2 FBG.dcm-3 FBG.dcm-3 SP10291.dcm 19352VA.dcm 12256U.dcm 14352VA.dcm 18847.dcm 19791.dcm 21127.dcm-1 1852VA.cDS17.I 18847.cDS17.I 18847.cDS17.I
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& \mathbf{C} & \mathbf{I} & \mathbf{G} & \mathbf{G} & \mathbf{I} \\ \mathbf{I} & \mathbf{C} & \mathbf{I} & \mathbf{G} & \mathbf{G} & \mathbf{I} \\ \mathbf{I} & \mathbf{C} & \mathbf{I} & \mathbf{G} & \mathbf{G} & \mathbf{I} \\ \mathbf{I} & \mathbf{C} & \mathbf{I} & \mathbf{G} & \mathbf{G} & \mathbf{G} \\ \mathbf{I} & \mathbf{I} & \mathbf{C} & \mathbf{I} & \mathbf{G} & \mathbf{G} & \mathbf{G} \\ \mathbf{I} & \mathbf{I} & \mathbf{C} & \mathbf{I} & \mathbf{G} & \mathbf{G} & \mathbf{G} \\ \mathbf{I} & \mathbf{I} & \mathbf{C} & \mathbf{G} & \mathbf{G} & \mathbf{G} \\ \mathbf{I} & \mathbf{I} & \mathbf{I} & \mathbf{G} & \mathbf{G} & \mathbf{G} \\ \mathbf{I} & \mathbf{I} & \mathbf{I} & \mathbf{G} & \mathbf{G} & \mathbf{G} \\ \mathbf{I} & \mathbf{I} & \mathbf{I} & \mathbf{G} & \mathbf{G} & \mathbf{G} \\ \mathbf{I} & \mathbf{I} & \mathbf{I} & \mathbf{G} & \mathbf{G} & \mathbf{G} \\ \mathbf{I} & \mathbf{I} & \mathbf{I} & \mathbf{G} & \mathbf{G} & \mathbf{G} \\ \mathbf{I} & \mathbf{I} & \mathbf{I} 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896 879 899 899 892 892 897 896 892 1445 1445 1445 1445 1445 1444 1448 1448	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \mathbf{G} \ \mathbf{T} \ \mathbf{I} \ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ 480 \\ 1 \ \mathbf{C} \ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ \mathbf{I} \ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \\ \mathbf{G} \\ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ \mathbf{G} \ \mathbf{G} \\ \mathbf{G} \ $		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Т С А G 1500 Т Т А Т Г Т Т А Х Т Г Т Т А Х Т Г Т Т Т Х Х Т Т Т Т Т Х Х Т Т Х Х Т Т Т Т Т Х Х Т Т Х Х Т Т Т Т Т Х Х Т Т Х Х Т Т Т Т Т Х Х Т Т Х Х Т Т Т Т Т Х Х Т Т Х Х Т Т Т Т Х Х Т Т Х Х Т Т Х Х Т Т Т Т Х Х Т Т Х Х Т Т Х Х Т Т Т Т Х Х Т Т Х Х Т Т Х Х Т Т Т Т Х Х Т Т Х Х Т Т Х Х Т Т Т Т Х Х Т Т Х Х Т Т Х Х Т Т Х Х Т Т Х			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			T A T T T T T T T T T T T T T T T T T T T	A         G         G         C         T	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Majority 0 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 1938VA.dcm 1938VA.dcm 1352VA.dcm 1352VA.dcm 1352VA.dcm 1352VA.dcm 1352VA.dcm 13547.dcm 13547.dcm 13791.dcm 13791.cDS17.I 14352VA.cDS17.I 19791.cDS17.I-2 21127.CDS17.I-3 SP10291.cDS17.I 12256U.CDS17.I-1 12256U.CDS17.II-1 12256U.CDS17.II-1 12256U.CDS17.II-1 12256U.CDS17.II-1 12256U.CDS17.II-1 12256U.CDS17.II-1 14352VA.CDS17.II-1 14352VA.CDS17.II-1 12550.CDS17.II-2 SP10291.CDS17.II-1 15753.CDS17.II-1 15791.CDS17.II-1 15791.CDS17.II-1 15791.CDS17.II-1 15791.CDS17.II-1 15791.CDS17.II-1 15791.CDS17.II-1
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	AAGACAACAGAATTAC	CCTTATTTTT	AGATA TAAA	тасааааааттс	ACAAAGAGTTTATTCXAATA	Majority
	1550	1560	1570	1580 1	590 1600 16	10
962 963	A A G A A A T A A T T A A A A G A A A T A A T T A A	A C A C G T T T T T A C A C G T T T T T	A A A T T A A A A A A T T A A A	TAAAA TAAAA		21127.dcm-2 21127.dcm-3
965 965	A G A A A T A A T T A A	ACACATTTT	A G A C A + - C A A A A C A C A C A A A	CATAA		FBG.dcm-1 FBG.dcm-2
965	A A G A A A T A A T T A A	ACACATTTT	AGACACAAA	CAATAA		FBG.dcm-3
957 964	AAGAAAT AATAA AAGAAAT AATAA	A C A C A T T T T	AAAT TAAC	CAAGGAGGAATA	Ĩ.	942J.dcm
958 963	A A G A A A T A A T T A A A A G A A A T A A T T A A	A C A C A T T T T T A C A C A T T T T T	A G A C A C A A A A A A T T A A C	CAATAA CAAGGAGGAATA	A	10936VA.dcm 12256U.dcm
954	A A G A A A T A A T T A A	ACACGTTTT	AAAT TAAA		50	14352VA.dcm
962	A A G A A A T A A T T A A	ACACGTTTT	AAAT TAAA	TAAAA		19791.dcm
964 1509	A A G A A A T A A T T A A A A G C C A C A A G A A G T C C	T CTAAGT TTT	A G A T T A T T T G A	TATGTATCATC	AATATA	21127.dcm-1 14352VA.CDS17.I
1515 1514	A A G C C A C A A G A A G T C C A A G C C A C A A G A A G T C C	T C T A A G T T T T T C T A A G T T T T	A G A T T A T T T G A A G A T T A T T T G A	TATGTATCATTC TATGTATCATTC	A A A T A G A A C T A A T T T T A A T A A A A T A G A A C T A A T T T T A A T A	18847.CDS17.I 19791.CDS17.I
1514	AAGCCACAAGTCC	TCTAAGTTTT	AGATTATTGA	TATGTATCATTC	A A A T A G A A C T A A T T T T A A T A	21127.CDS17.I-1
1515	AGCCACAAGAAGTCC	TCTAAGTTT	AGATTATTTGA	TATGTATCATTC	A A A T A C A A C T A A T I T T A A T A	21127.CDS17.I-3
1517	A A G C C A C A A G A A G T C C	T C T A A G T T T T	A G A T T A T T T G A A G A T T A T T T G A	TATGTATCATIC TATGTATCATIC	A A A T A G A A C T A A T T T T A A T A A A A T A G A A C T A A T T T T A A T A	FBG.CDS17.1-1 FBG.CDS17.1-2
1517 1507	A A G C C A C A A G A A G T C C A A G C C A C A A G A A G T C C	T C T A A G T T T T T C T A A G T T T T	A G A T T A T T T G A A G A T T A T T T G A	TATGTATCATTC TATGTATCATTC	A A A T A G A A C T A A T T T T A A T A A A A T A G A A C T A A T T T T A A T A	FBG.CDS17.I-3 SP10291.CDS17.I
1514	A A G C C A C A A G A A G T C C	TCTAAGTTTT	AGATTATTIGA	TATGTATCACTC	A A A T A G A A C C A A T T T C A A T A B A B T B G B A C T A S T T T T B S T S	942J.CDS17.I
1516	AACCCACAAGAAGTCC	TCTARGTTTT	AGATTATTGA	TATGTATCATTC	AAATAGAACIAATITTAATA	12256U.CDS17.I
1425	ATGACAACTGATTCGC ATGACAACTGATTCAC	CTTTATTTT	G G A T A T A A A G G A T A T A A A	AACAAAAATIC	GCAAAGAGTTTATTCAAATA GCAAAGAGTTTATTCAAATA	12256U.CDS17.II-
1435 1432	A T G A C A A C T G A T T C A C A T G A C A A C T G A T T C A C	CTTTATTTT CTTTATTTT	G G A T A T A A A G G A T A T A A A	A A C A A A A A A T T C A A C A A A A A A A T T C	G C A A A G A G T T T A T T C A A A T A G C A A A G A G T T T A T T C A A A T A	12256U.CDS17.II- 14352VA.CDS17.II
1427	A T G A C A A C C G A T T C G C	CITTATTTT	G - A T A T A A A	A A C A A A A A A - T T C	ACAAAGAGITIAIICAAAIA	16753.CDS17.II-1
1437	ATGACAACTGATTCAC	CIIIATITIT	G G A T A T A A A	ACAAAAATTC	G C A A A G A G T I T A T I C A A A T A	19791.CDS17.II-1
1436	A T G A C A A C T G A T T C A C	CITTATTT	GGATA TAAA GGATA TAAA	A A C A A A A A A I I C	G C A A A G A G I I I A I I C A A A I A G C A A A G A G T T T A T T C G A A T A	SP10291.CDS17.II-2 SP10291.CDS17.II
1433 1435	A T G A C A A C T G A T T C A C A T G A C A A C T G A T T C A C	C T T T A T T T T T C T T T A T T T T T T	G G A T A T A A A G G A T A T A A A	A A C A A A A A A T T C A A C A A A A A A T T C	G C A A A G A G T T T A T T C A A A T A G C A A A G A G T T T A T T C A A A T A	727J.CDS17.II 942J.CDS17.II
1433	A T G A C A A C T G A T T C G C	CITIATTIT	G G A T A T A A A	A A C A A A A A A - T T C	ACAAAGAGITIAIICAAAIA	2740.CDS17.II-1
1436	ATGACAACTGATTCAC	CTTTATTTT	GGATATAAA	ACAAAAATTC	GCAASSASTITATICAAATA	7447VA CDS17.II
	GCTXATXAATGGXACA	ссходтхаас	GCABATCAACA	СТТАТСАВАВА	хтсстаттссаттатттаат '	Majority
	<u>G C T X A T X A A T G G X A C A</u> 1620	<u>ССХССТХААС</u> 1630	<u>G C A A T C A A C A</u> 1640	<u>СТТАТБААААА</u> 1650 1	<u>X T G G T A T T G C A T T A T T T A A T :</u> 660 1670 16	Majority
997 998	<u>G C T X A T X A A T G G X A C A</u> 1620	<u>C C X G G T X A A G</u> 1630	<u>G C A A A T C A A C A</u> 1640	<u>СТТАТБААААА</u> 1650 1	<u>X T G G T A T T G C A T T A T T T A A T T</u> 660 1670 16	Majority 80 21127.dcm-2 21127.dcm-3
997 998 1002	<u>G C T X A T X A A T G G X A C A</u> 1620	CCXGGTXAAG 1630	<u>G C A A A T C A A C A</u> 1640	<u>СТТАТСАААААА</u> 1650 1	<u>X T G G T A T T G C A T T A A T T A A T T</u> 660 1670 16	Majority 80 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-0
997 998 1002 1002	<u>G C T X A T X A A T G G X A C A</u> 1620	<u>C C X G G T X A A G</u> 1630	<u>G C A A A T C A A C A</u> 1640	<u>СТТАТGААААА</u> 1650 1	<u>X T G G T A T T G C A T T A T T T A A T T</u> 660 1670 16	Majority 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3
997 998 1002 1002 993 1007	<u>G C T X A T X A A T G G X A C A</u> 1620	<u>C C X G G T X A A G</u> 1630	<u>G C A A A T C A A C A</u> 1640	<u>СТТАТGААААА</u> 1650 1	<u>X T G G T A T T G C A T T A A T T A A T T</u> 660 1670 16	Majority 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-2 FBG.dcm-3 SP10291.dcm SP10291.dcm
997 998 1002 1002 993 1007 995 1006	<u>G C T X A T X A A T G G X A C A</u> 1620	<u>C C X G G T X A A G</u> 1630	<u>G САДАТСААСА</u> 1640	<u>СТТАТGААААА</u> 1650 1	<u>X T G G T A T I G C A T T A A T I G G T A T I G C A T T A A T I G G G G G G G G G G G G G G G G G G</u>	Majority 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 10936VA.dcm 10936VA.dcm
997 998 1002 1002 993 1007 995 1006 989	<u>G C T X A T X A A T G G X A C A</u> 1620	<u>ССХĢСТХААС</u> 1630	<u>ссадатсааса</u> 1640	<u>СТТАТ G А А А А А А А</u> 1650 1	<u>X T G G T A T I G C A T T A T T T A A T :</u> 660 1670 16	Majority 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 9420.dcm 10936VA.dcm 10395VA.dcm 14352VA.dcm
997 998 1002 1002 993 1007 995 1006 989 1005 997	<u>G C T X A T X A A T G G X A C A</u> 1620	<u>ССХĢGТХААG</u> 1630	<u>ссадатсааса</u> 1640	<u>СТТАТ G А А А А А А А</u> 1650 1	<u>X I G G T A T I G C A T T A T T A A T :</u> 660 1670 16	Majority 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 942J.dcm 10936VA.dcm 12256U.dcm 14352VA.dcm 18847.dcm
997 998 1002 1002 993 1007 995 1006 989 1005 997 999 1579	<u>G C T X A T X A A T G G X A C A</u> 1620	<u>C C X G G T X A A G</u> 1630 A G T [G:S] A A <u>A A S</u>	<u>ссадатсааса</u> 1640 ©] т <b>а.а.а</b> ] а <mark>са.а.с</mark> ) т	<u>СТТАТСАААААА</u> 1650 1 1 (Т.Т.Т.Ж.) СТЖ.] Т С (Ж.Ж.) G	<u>ХІССТАТІССАТТАТТТААТ</u> 660 1670 16 1 (Т.) А Т (Т.Ж.) А С С А (Ж.) А С (Ж.) Т (Ж.) Т (Ж.) А С С А (Ж.) А С (Ж.) Т (Ж.) Т (Ж.) Т (Ж.) С (Ж.) Т (Ж.) Т (Ж.) Т (Ж.) С (Ж.) Т (Ж.) Т (Ж.) С (Ж.) Т (Ж.) Т (Ж.) С (Ж.) Т (Ж.) Т (Ж.) С (Ж.) Т (Ж.) С (Ж.) Т (Ж.) С (Ж.) Т (Ж.) С (Ж.) Т (Ж.) С (Ж.) Т (Ж.) С (Ж.) С (Ж.) С (Ж.) Т (Ж.) С	Majority 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 942J.dcm 10936VA.dcm 12256U.dcm 14352VA.dcm 19791.dcm 19791.dcm 19791.dcm 124352VA.CDS17.I
997 998 1002 1002 993 1007 995 1006 989 1005 997 999 1579 1585	G C T X A T X A A T G G X A C A           1620           1620           1620	<u>C C X G G T X A A G</u> 1630 A G T [6:6] A A <u>A.3.6</u> A G T [6:6] A A <u>A.3.6</u>	<u>G С А А А Т С А А С А</u> 1640	<u>СТТАТ GАААААА</u> 1650 1 1650 1 17. Т. Т. Т. Х. Т. Х. Т. Х. Т. Х. Т. Х. Т. Х. С. Т. А. Т. С. Т. А. Т. С. Т. А. Т. С. Т. А. Т. С. Т. А. Т. С. Т. А. Т. С. Х. А. Т. С. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. А. Х. Х. Х. Х. Х. Х. Х. Х. Х. Х. Х. Х. Х.	<u>ХТССТАТТССАТТАТТТААТ</u> 660 1670 16 ТГАТТЖАССАДАС <u>КИ ТТА</u> Т ТГАТТЖАМСАС <u>С</u> ТТАТТЖАМСАС ТТАТТЖАМСАС ССБИТТАТА	Majority 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-3 FPG.dcm-3 SP10291.dcm 10936VA.dcm 12256U.dcm 18847.dcm 18847.dcm 19791.dcm 21127.dcm-1 214322VA.dcm 21432VA
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997 998 1002 1002 993 1005 999 1005 999 1579 1584 1584 1584	G C T X A T X A A T G G X A C A           1620           1670           1700	<u>C C X G G T X A A G</u> 1630 A G T G G A A A A G A G T C G A A A A G A G T C G A A A A G A G T C G A A A A G A G T C G A A A A G A G T C G A A A A G A G T C G A A A A G A G T C G A A A A G G T C G A A A A G G T C G A A A A G G T C G A A A A G	G C A A A T C A A C A 1640 G T A A A A A C A A C T G T A A A A C A A C T G T A A A A C A A C T G T A A A A C A A C T G T A A A A C A C A C T G T A A A A C A C A C T G T A A A A C A C A C T G T A A A A C A C A C T G T A A A A C A C A C T G T A A A A C A A C T G T A A A A C A A C T G T A A A A C A A C T	<u>C T Ț A T G A A A A A A A</u> 1650 1 1650 1 T <u>T T A</u> C T <u>A</u> T G <u>A A</u> G T <u>T T A</u> C T <u>A</u> T G <u>A A</u> G T <u>T T A</u> C T <u>A</u> T G <u>A A</u> G T <u>T T A</u> C C <u>A</u> T G <u>A A</u> A T <u>T A</u> C C <u>A</u> T G <u>A A A</u> A T <u>T A</u> C C <u>A</u> T G <u>A A A</u> G T <u>T A</u> C C <u>A</u> T G <u>A A A</u> G T <u>T A</u> C C <u>A</u> T G <u>A A A</u> A	<u>Х Т G G T A T T G C A T T A T T T A A T </u> 660 1670 16 Т Т А Т Т Х А С С А А А С А Т Т Т Т А С 1670 16 Т Т А Т Т Х А И С А С - С А Т Т Т Т А С 1 Т Т А Т Т Х А И С А С - С А Т Т Т Т А С 1 Т Т А Т Т Х А И С А С - С А Т Т Т Т А С 1 Т А Т Т Х А С Т А С - Г Х Т Т Т Т А С 1 Т А Т Т Х А С Т А С - Г Х Т Т Т Т А С 1 Т А Т Т Х А С Т А С - Г Х Т Т Т Т А С 1 Т А Т Т Х А С Т А С - Г Х Т Т Т Т А С 1 Т А Т Т Х А С Т А С - Г Х Т Т Т Т А С 1 Т А Т Т Х А С Т А С - Г Х Т Т Т Т А С 1 Т А Т Т Х А С Т А С Г А С - Г Х Т Т Т Т А С 1 Т А Т Т Х А С Т А С - С Х Х Т Т Т А С 1 Т А Т Т Х А С Т А С - С Х Х Т Т Т А С 1 Т А Т Т Х А С Т А С - С Х Х Т Т Т А С 1 Т А Т Т Х А С Т А С - С Х Х Т Т Т А С 1 Т А Т Т Х А С Т А С - С Х Х Т Т Т А С 1 Т А Т Т Х А С Т А С - С Х Х Т Т Т А С 1 Т А Т Т Х А С Т А С С - С Х Х Т Т Т А С 1 Т А Т Т Х А С Т А С Т А С - С Х Х Т Т Т А С 1 Т А Т Т Х А С Т А С Т А С - С Х Х Т Т Т А С 1 Т А Т Т Х А С Т А С Т А С - С Х Х Т Т Т Х С С 1 Т А Т Т Х А С Т А С Т А С С Т Х С Т Т Т Т А С 1 Т А Т Т Х А С Т А С Т А С С Х Х Т Т Х Т Т Х С С Х Х Т Т Т Х С С Х Х Т Т Х С Х Х Т Х Т	Majority 21127.dcm-2 21127.dcm-3 FBG.dcm-3 FBG.dcm-3 FBG.dcm-3 SP10291.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 12256U.dcm 19791.dcm 21127.dcm-1 21137.dcm-1 21137.dcm1 21127.ccbs17.I 21127.ccbs17.I-2 21127.ccbs17.I-3
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997 998 1002 993 1002 995 1006 995 1005 997 995 1509 1509 1509 1584 1584 1585 1587 1587 1587 1587 1587 1587 1587	$ \begin{array}{c} G \ C \ T \ X \ A \ T \ X \ A \ A \ T \ G \ G \ X \ A \ C \ A \\ \hline 1620 \\ \hline$	$\begin{array}{c c} C \ X \ G \ G \ T \ X \ A \ A \ G \ I \\ \hline 1630 \\ \hline 171 \\ $	G         C         A         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         A         C         T         A         A         A         C         A         C         T         A         A         A         C         A         C         T         T         A         A         A         C         A         C         T         T         T         A         A         C         A         C         T         T         T         A         A         C         A         C         T         T         T         A         A         C         A         C         T         T         T         A         A         C         A         C         T         T         T         A         A         A         C         A         C         T         T         T         A         A         C         A         C         T         T         T	C T T A T G A A A A A A 1650 1 1 T A C T A T G A A A A A A A 1650 1 1 T A C T A T G A A A A A A 1 G A G A G A G A G A G A G A G A G A G	$\begin{array}{c} X \ T \ G \ G \ T \ A \ T \ G \ C \ A \ T \ T \ A \ T \ T \ A \ T \ G \ C \ A \ T \ A \ T \ A \ T \ A \ T \ A \ C \ A \ G \ C \ A \ T \ A \ T \ A \ T \ A \ C \ A \ G \ C \ A \ T \ A \ T \ A \ C \ A \ G \ C \ A \ T \ A \ T \ A \ C \ A \ G \ C \ A \ T \ A \ T \ A \ C \ A \ G \ C \ A \ T \ A \ T \ A \ C \ A \ G \ C \ A \ T \ A \ T \ A \ C \ A \ G \ C \ A \ T \ A \ T \ A \ C \ A \ G \ C \ A \ T \ A \ T \ A \ C \ A \$	Majority 80 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-1 FBG.dcm-3 SP10291.dcm 9427.dcm 103967A.dcm 122560.dcm 122560.dcm 123527A.dcm 124567.dcm 12457A.dcm 1245

	1700	1710	1720	1730	1740	1750
2 2 2 1 7 7 5 6 6	I					21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 942J.dcm 10936VA.dcm 12256U.dcm 14352VA.dcm
5           4         A         C         A         A         C         A         A         C         A         A         C         A         A         C         A         A         C         A         A         C         A         A         C         A         A         C         A         A         C         A         A         C         A         A         C         A         A         C         A         A         C         A         A         C         A         A         C         A		$\begin{array}{c} A \subset C = \left[ \begin{array}{c} T \subset A \land A \right] \in \left[ A \\ A \subset C \\ A \subset C \\ C \\ C \\ C \\ C \\ C \\ C \\ C \\ C \\ C$		$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \end{array} $	$\begin{array}{c} C \left[ \begin{array}{c} A \\ A \end{array} \right]_{A} A \\ C \left[ \begin{array}{c} C \\ T \end{array} \right]_{A} \left[ \begin{array}{c} A \\ A \end{array} \right]_{A} A \\ C \left[ \begin{array}{c} C \\ T \end{array} \right]_{A} \left[ \begin{array}{c} A \\ A \end{array} \right]_{A} \\ C \left[ \begin{array}{c} A \\ A \end{array} \right]_{A} \\ A \\ A \\ A \\ C \\ A \\ A \end{array} \right]_{A} \left[ \begin{array}{c} C \\ A \\ A \end{array} \right]_{A} \\ C \\ C \\ A \\ A \\ A \\ A \\ A \\ A \\ A \\ A$	18847.dcm 19791.dcm 21127.dcm-1 21127.dcm-1 10.65 A 18847.CDS17.1 10.65 A 19791.CDS17.1 10.65 A 21127.CDS17.1 10.65 A 21127.CDS17.1 10.65 A FBG.CDS17.1-2 10.65 A FBG.CDS17.1-2 10.65 A FBG.CDS17.1-3 10.65 A FBG.CDS17.1-3 10.65 A FBG.CDS17.1-3 10.65 A FBG.CDS17.1-3 10.65 A 10291.CDS17.1 10.65 A 942J.CDS17.1 10.65 A 942J.CDS17.1 10.65 A 942J.CDS17.1 10.65 A 942J.CDS17.1 10.65 A 103967A.CDS17
$ \begin{array}{c} 1 \begin{array}{c} 1 \\ 1 \\ 7 \\ 1 \\ 7 \\ 4 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7$						T G.A.C. 10936VA.CDS17 T.G.G.C. 12256U.CDS17. T.G.G.C. 12256U.CDS17. T.G.G.C. 1455VA.CDS17. T.G.G.C. 16753.CDS17.1 T.G.G.C. 19791.CDS17.1 T.G.G.C. 19791.CDS17.1 T.G.G.C. 19791.CDS17.1 T.G.G.C. 270201.CDS17.11 T.G.G.C. 2702.02517.11 T.G.G.C. 2740.CDS17.11 T.G.G.C. 2740.CDS17.11 T.G.
GAAGTTTTTGAAAT ( 1760	<u>3 G G A A C A G G A A T</u> 1770	<u>X A A C A C G T T J</u> 1780	ATTAATCCT 1790	<u>сттсааста (</u> 1800	ATTTGCAATTT:	<u>A A T G</u> Majority 1820
1	I	1		I		21127 dcm=2
2 2 7 5						21127.dcm-3 FBG.dcm-1 FBG.dcm-3 FBG.dcm-3 SP10291.dcm 942J.dcm 10336VA.dcm 1235CU.dcm 14352VA.dcm 18352VA.dcm 189791.dcm
$\begin{array}{c} 2\\ 2\\ 2\\ 3\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			$ \begin{array}{c} G \hline I \\ A \\ A \\ C \\ G \hline I \\ A \\ A \\ C \\ G \\ I \\ A \\ A \\ C \\ C \\ I \\ A \\ C \\ C \\ C \\ C \\ C \\ C \\ C \\ C \\ C$	21127.dcm-3 FB6.dcm-1 FB6.dcm-1 FB6.dcm-3 SF10291.dcm 103937A.dcm 122567.dcm 122567.dcm 122567.dcm 12357A.dcm 18847.dcm 18947.dcm 19791.dcm 2127.dcm-1 2127.dcm-1 2127.dcm-1 2127.dcm 19791.dcm 2127.dcm 19791.dcm 2127.dcm 19791.dcm 2127.dcm 19791.dcm 2127.dcm 19791.dcm 2127.dcm 19791.dcm 2127.dcm 19791.dcm 2127.dcm 19791.dcm 2127.dcm 19791.dcm 2127.dcm 19791.dcm 2127.dcm 19791.dcm 2127.dcm 19791.dcm 2127.dcm 2127.dcm 19791.dcm 2127.dcm 2127.dcm 2127.dcm 2127.dcm 19791.dcm 2127.dcm 212

	A-ACAAGIAGAAAII	AAAAAICAAAA		ALCIICA		1	<u></u>
	1830	1840	1850	1860	1870	1880	1890
997							21127.dcm-2
998							21127.dcm-3
1002							FBG.dcm=2
1002							FBG.dcm-3
993							SP10291.dcm
1007							942J.dcm
995							10936VA.dcm
1006							12256U.dcm
989							14352VA.dcm
997							19791 dcm
999							21127.dcm-1
1787	A T G CAA C G G G T AAT G	ATACGTOTTCA	CTĂĂTTĂĂCĂ	ссалт тастс	GTGATTAGAA	AGTTTTTAAA	G G T 14352VA.CDS17.I
1793	ATGCAACGGGTAATG	ATACATCTTCA	CTAATTAACA	CCATTTGTC	GTGATTAGAA	AGTTTTTAAA	G G T 18847.CDS17.I
1793	ATGCAACGGTAATG	ATACATCTTCA	CTAATTAACA	CCATTGTC	GTGATTAGAA	AGTTTTTAA	G G 🛱 19791.CDS17.I
1793	A T G C A A C G G G T A A T G	ATACATCTTCA	CTRATTAACA	CCACTTGTC	GIGATIAGAA	AGTTTTTAAA	G G T 21127.CDS17.I-1
1794	AT GUART C G G GT AATG				G T G A T T A G A A		G G TI 21127.CD517.1-2
1796	ATGCARCGGGTRATG	ATACATCITCA	CTAATTAACA	CCATTTGTC	GIGATIAGAA	AGTITITIAA	G G T FBG.CDS17.I-1
1796	ATGCAACGGGTAATG	ATACATCTTCA	CTAATTAACA	CCATTTGTC	GTGATTAGAA	AGTTTTTAA	G G T FBG.CDS17.I-2
1796	ATGCAACGGGTAATG	ATACATCTTCA	CTAATTAACA	CCATTTGTC	GTGATTAGAA	AGTTTTAAA	G G T FBG.CDS17.I-3
1785	ATGCAACGGGTAATG	ATACATOTTCA	CTAATTAACA	CCATTTGTC	GTGATTAGAA	AGTTTTT	G G T SP10291.CDS17.I
1793	AT GCAACGGGTAATG	ATACATCTTCA	CTAATTAACA	CCATTIGTC	GIGATTAGAA	AGTTTTTAAA	IG G T 942J.CDS17.I
1795	AT COMPACE CONTACTO	ATACATOTICA	CTAXTTA CA	C C ANTITUGIC	GTGATTACAA	AGTTTTT	G G M 12256U CDS17 T
1702	A - A C A A G T A G A A A T I	AAAAATCAAAA	TAAAATTATA	T - A T C T T C A	AATATC-GAA	AAGTTCAAA	A A T 10936VA.CDS17.II
1712	A - A C A A G I A G A A A I I	AAAAATCAAAA	TAAAATTATA	T-ATCTTCA	AATATTAGAA	AAGTTCAAA	A A T 12256U.CDS17.II-1
1712	A - A C A A G I A G A A A I I	AAAAATCAAAA	TAAAATTATA	THATCTTCA	AATATTAGAA	AAGTTCAAA	A A T 12256U.CDS17.II-2
1708	A - A C A A G T A G A A A T I	AAAAATCAAAA	TAAAATTATA	T - A T C T T C A	AATATTAGAA	AAGTTCAAA	A A T 14352VA.CDS17.II
1700	A - A C A A G T A G A A A T I	AAAA - TCAAAA	TAAAATTATA.	T-ATCTTCA	AATATC-GAA	AAGTTCAAA	A A T 16753.CDS17.II-1
1698	A - A C A A G I A G A A A I I	A A A A A I C A A A A			A A T A T C - G A A	A A G I I C A A A	A A T 16753.CDS17.11-2
1712	A - A C A A G T A C A A A T T	11111TC111	T 1 1 1 1 T T 1 T 1 T 1		AATATAGAA	ALGTTCA	19791.CDS17.TT-2
1698	A - A C A A G T A G A A A T T	AAAAATCAAAA	TAAAATTATA	T-ATCTTCA	AATATTAGAA	AAGTTCAAA	A A T SP10291.CDS17.II
1709	А-АСААСТАСАААТТ	AAAAATCAAAA	TAAAA <u>T</u> TATAJ	T-ATCTTCA	AATATTAGAA	AAGTTCAAA	(A A T 727J.CDS17.II
1712	A - A C A A G T A G A A A T I	AAAATCAAAA	TAAAAGTATA	THATCTTCA	AATAT <u>T</u> AGAA	AAGTTCAAA	A A T 942J.CDS17.II
1709	A - A C A A G T A G A A A T I	AAAAATCAAAA	TAAAATTATA	T - A T C T T C A	AATATCAGAA	AAGTTCAAA	A A 1 2740.CDS17.II-1
1706	A - A C A A G T A G A A A T I	AAAAATCAAAA	TAAAATTATA.	T - A T C T T C A	AATATCAGAA	A A G T T C A A A	A A T 2740.CDS17.II-2
1/13	A.7.A.C.A.A.G.L.A.C.A.A.A.L.I	- A A A A A A I U A A A A	-1-A-A-A-A-1-1-A-1-A-	• + A - I - 0 - I - + - 0 - A	A A I A I I A A A A	A A & 1 1 0 A A A	-A.A.4.4 /44/VA CDS1/.11
	тссттававтавтог	стааттттаат		аттадаттта	тсееваатс	TTTGTCAGAG	T T A T Majority
	TCCTTAAAATAATGI	GTAATTTTAAT	GA-TATAGAA	GTTAGATTTA	TCGGAAAATC	TTTGTCAGAG	<u>T T A T</u> Majority
	<u>ТССТТААААТААТСІ</u> 1900	<u>G T A A T T T T A A T</u> 1910	<u>GA-TATAGAA</u> 1920	<u>5 T T A G A T T T A</u> 1930	<u>ТСGGААААТС</u> 1940	TTTGTCAGAG	<u>T T A T</u> Majority 1960
997	<u>T C C T T A A A A T A A T G 1</u> 1900	<u>GTAATTTTAAT</u> 1910	<u>GA - TATAGAA</u> 1920	<u>5 T T A G A T T T A</u> 1930	<u>ТСGGААААТС</u> 1940	<u>ТТТĞТСАĞАĞ</u> 1950	<u>I T A T</u> Majority <u>1960</u> 21127.dcm-2
997 998	<u>ТССТТААААТААТG 1</u> 1900	<u>GTAATTTTAAT</u> 1910	<u>GA - TATAGAA</u> 1920	<u>5 T T A G A T T T A</u> 1930	<u>T C G G A A A A T C</u> 1940	<u>T T T G T C A G A G 7</u> 1950	<u>I T A T</u> Majority 1960 21127.dcm-2 21127.dcm-3
997 998 1002	<u>ТССТТААААТААТ 6 1</u> 1900	<u>. G T A A T T T T A A T</u> 1910	<u>GA-TATAGAA</u> 1920	<u>5 T T A G A T T T A</u> 1930	<u>ТСGGААААТС</u> 1940	<u>T T T G T C A G A G 7</u> 1950	<u>T T A T</u> Majority 1960 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2
997 998 1002 1002	<u>1 C C I I A A A A I A A I G I</u> 1900	<u>G T A A T T T T A A 1</u> 1910	<u>GA-TATAGAA</u> 1920	<u>5 T T A G A T T T A</u> 1930	<u>ТСGGААААТС</u> 1940	<u>T T T G T C A G A G T</u> 1950	<u>I T A T</u> Majority 1960 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3
997 998 1002 1002 1002 993	<u>T C C T T A A A A T A A T G T</u> 1900	<u>G T A A T T T T A A 1</u> 1910	<u>G A - T A T A G A A</u> 1920	<u>5 T T A G A T T T A</u> 1930	<u>T C G G A A A A T C</u> 1940	<u>T T T G T C A G A G 5</u> 1950	<u>ITAT</u> Majority <u>1960</u> 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SP10291.dcm
997 998 1002 1002 993 1007	<u>T C C T T A A A A T A A T G 7</u> 1900	<u>1910 - 1</u>	<u>са – татасаа</u> 1920	<u>5 T T A G A T T T A</u> 1930	<u>T C G Ç A A A A T C</u> 1940	<u>T T T G T C A G A G 7</u> 1950	<u>T T A T</u> Majority <u>1960</u> 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 9423.dcm
997 998 1002 1002 993 1007 995	<u>ТССТТААААТААТG 1</u> 1900	<u>1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910</u>	<u>6 A - T A T A G A A</u> 1920	5 <u>T T A G A T T T A</u> 1930	<u>T C G G A A A A T C</u> 1940	<u>T T T G T C A G A G 7</u> 1950	<u>I T &amp; T</u> Majority <u>1960</u> 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 942J.dcm 19936VZ.dcm
997 998 1002 1002 993 1007 995 1006	<u>T C C T T A A A A T A A T G T</u> 1900	<u>IGTAATTTTAA</u> 1910	<u>са – татасаа</u> 1920	<u>5 T T A G A T T T A</u> 1930	<u>ТСGGААААТС</u> 1940	<u>T T T G T C A G A G 7</u> 1950	<u>I T A T</u> Majority <u>1960</u> 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-3 SF10291.dcm <u>1093VA.dcm</u> <u>12256U.dcm</u>
997 998 1002 1002 993 1007 995 1006 989	<u>T C C T T A A A A T A A T G 7</u> 1900	<u>EGTAATTTTAA1</u> 1910	<u>сан-татасаа</u> 1920	<u>5 T T À G A T T T A</u> 1930	<u>T C G Ç A A A A T C</u> 1940	<u>T T T G T C A G A G 7</u> 1950	<u>I T A T</u> Majority <u>1960</u> 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-2 FBC.dcm-3 SF10291.dcm 942J.dcm 10936VA.dcm 10936VA.dcm 12550V.dcm
997 998 1002 1002 993 1007 995 1006 989 1005	<u>ТССТТААААТААТСЭ</u> 1900	<u>1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910</u>	<u>6 A - T A T A G A A</u> 1920	5 <u>T T A G A T T T A</u> 1930	<u>T C G G A A A A T C</u> 1940	<u>T T I G I C A G A G 7</u> 1950	<u>IT &amp; T</u> Majority <u>1960</u> 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-3 SP10291.dcm 19936VA.dcm 12256U.dcm 14352VA.dcm 18847.dcm 1991.dcm
997 998 1002 1002 993 1007 995 1006 989 1005 997 999	<u>T C C T T A A A A T A A T G T</u> 1900	<u>IGTAATTTTAA1</u> 1910	<u>5 G A - T A T A G A A</u> 1920	5 T T A G A T T T A 1930	<u>T C G G A A A A T C</u> 1940	<u>T T T G T C A G A G :</u> 1950	<u>TTAT</u> Majority <u>1960</u> 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 10936VA.dcm 10936VA.dcm 12352VA.dcm 1887.dcm 1897.dcm 19791.dcm
997 998 1002 1002 993 1007 995 1006 989 1005 989 1005 997 999 1856	<u>Т С С Т Т А А А А Т А А Т С Л</u> 1900 (Т]Т Т А А Т Т ( <u>А, А, Т, А</u> ]Т А [5] J	<u>с д т а а т т т т т а а л</u> 1910 , а д [д] т с а (т] а [д] д [Л]	<u>GA-ŢАТАGАА</u> 1920	5 <u>T T À G A T T T A</u> 1930 I C A [A] A [A]] G [T A	<u>тс с с а а а а т с</u> 1940 ]а та а (ж.Ж.) с (Ж.) а т	<u>ттт стсасас;</u> 1950 Т.Т.Т.Т.Т.Т.Т.Т.Т.Т.Т.Т.Т.Т.Т.Т.Т.Т.Т.	<u>T T A T</u> Majority <u>1960</u> 21127.dcm-2 21127.dcm-3 FBG.dcm-2 FBG.dcm-2 FBG.dcm-2 FBG.dcm-1 10936VA.dcm 10936VA.dcm 10936VA.dcm 18847.dcm 19791.dcm 21127.dcm-1 FJA G A 14352VA.T
997 998 1002 1002 993 1007 995 1006 989 1005 997 999 1856 1862	<u>Т С С Т Т А А А А Т А А Т С Л</u> 1900 ТТ Т Т А А Т Т (А А Т А) Т А (5) Л ТТ Т А А Т Т (А А Т А) Л А (5) Л	<u>с д т д д т т т т д д л</u> 1910 . д с (Д) т с д (Т) д Д) с П . д с (Д) т с д (Т) д Д) с П	<u>GA-TATAGAA</u> 1920	5 I I A G A I I I A 1930 I C A A A XIG 7 A I C A A A XIG 7 A	<u>T C G G A A A A T C</u> 1940 A T A A <u>A X G (A</u> A T A T A A <u>A X G (A</u> A T	<u>T T T G T C A G A G 7</u> 1950	<u>I T A T</u> Majority <u>1160</u> 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SF10291.dcm 940J.dcm 10936VA.dcm 12256U.dcm 1255U.dcm 1255U.dcm 1847.dcm 19791.dcm 19791.dcm 21127.dcm-1 R G A 14352VA.CDS17.I A G A 14352VA.CDS17.I
997 998 1002 1002 993 1007 995 1006 989 1005 997 999 1856 1862 1862	<u>ТССТТАААТААТСІ</u> <u>1900</u> ТТТААТІ <u>ЖАТА</u> ТА ТТТААТІ <u>ЖАТА</u> ТАСІ	<u>а с (А</u> ) т с а (Та А) ( 1910 а с (А) т с а (Та А) ( а с (А) т с а (Та А)) ( а с (А) т с а (Та А)) ( а с с с с с с с с с с с с с с с с с с с	<u>GA-TATAGAA</u> 1920	5 T T A G A T T T A 1930 T C A [A] A [X] G [X] T C A [A] A [X] G [X]	<u>тс с с а а а а т с</u> 1940 а та а а а а с а с а а а а т а та а а а а а с а с а а а а та а а а а а с а с а с а с а с а с а с	<u>T T T G T C A G A G 3</u> 1950	<u>T T A T</u> Majority <u>1960</u> 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 10937VA.dcm
997 998 1002 1002 993 1007 995 1006 989 1005 997 999 1856 1862 1862	<u>Т С С Т Т А А А А Т А А Т С Л</u> <u>1900</u> <u>1900</u> <u>1900</u> <u>1901</u> Т Т Т А А Т Т <u>А А Т А</u> Т А <u>Б</u> <u>1</u> Т Т А А Т Т <u>А А Т А</u> Т А <u>Б</u> <u>1</u> Т Т А А Т Т <u>А А Т А</u> Т А <u>Б</u> <u>1</u> Т Т А А Т Т <u>Б А Т А</u> Т А <u>Б</u> <u>1</u> Т Т А А Т Т <u>Б А Т А</u> Т А <u>Б</u> <u>1</u> Т Т А А Т Т <u>Б А Т А</u> Т А <u>Б</u>	<u>с с т а а т т т т т а а 1</u> 1910 1910 а с (А) т с а (Т) а А) с г а с (А) т с а (Т) а А) с г а с (А) т с а (Т) а А) с г а с (А) т с а (Т) а А) с г	<u>GA-TATAGAA</u> 1920 <u>AAATATTGCT</u> <u>AAATATTGCT</u> <u>AAATATTGCT</u>	<u>5 T T A G A T T T A</u> 1930 I C A (A) A (A) T G (T A I C A (A) A (A) T G (T A I C A (A) A (A) T G (T A I C A (A) A (A) T G (T A I C A (A) A (A) T G (T A	<u>T C G G A A A A T C</u> 1940 A T A A A G A A A A T A A A X G A A A A T A A A X G A A A A T A A A X G A A A A T A A A X G A A A A T A A A X G A A A A A A A A A A A A A A A	<u>T T T G T C A G A G 7</u> 1950 <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u>	<u>T T A T</u> Majority <u>1960</u> 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 18847.dcm 18847.dcm 18847.dcm 18847.dcm 18847.dcm 18847.dcm 21127.dcm-1 R G A 18847.cDS17.I A G B 19791.cDS17.I A G A 21127.cDS17.I
997 998 1002 1002 993 1007 995 1006 989 1005 997 999 1856 1862 1862 1862	<u>Т С С Т Т А А А А Т А А Т С Г</u> 1900 Т Т Т А А Т Т <mark>А А Т А Т А Б Ј Т Т Т А А Т Т <u>А А Т А</u> Т А Б Ј Т Т Т А А Т Т <u>А А Т А</u> Т А Б Ј Т Т Т А А Т Т <u>А А Т А</u> Т А Б Ј Т Т Т А А Т Т <u>А А Т А</u> Т А Б Ј Т Т Т А А Т Т <u>А А Т А</u> Т А Б Ј Т Т Т А А Т Т <u>А А Т А</u> Т А Б Ј Т Т Т А А Т Т <u>А А Т А</u> Т А Б Ј Т Т Т А А Т Т <u>А А Т А</u> Т А Б Ј Т Т Т А А Т Т <u>А А Т А</u> Т А Б Ј</mark>	<u>IGTAATTTTAA1</u> 1910 1910 А G (Д) T C A (Т) A (Д) G (Т А G (Д) T C A (Т) A (Д) G (Т А G (Д) T C A (Т) A (Д) G (Т А G (Д) T C A (Т) A (Д) G (Т А G (Д) T C A (Т) A (Д) G (Т А G (Д) T C A (Т) A (Д) G (T) А G (Д) T C A (Т) A (Д) G (T) А G (Д) T C A (T) A (Д) G (T)	<u>GA-TATAGAA</u> 1920	5 I I A G A I I I A 1930 I C A A A XIG XA I C A KA XIG XA I C A XIG XA I C	<u>T C G G A A A A T C</u> 1940 1740 A T A A <u>A A G A</u> A A T A A <u>A A G A</u> A A T A A <u>A A A G A</u> A A T A A <u>A A A G A</u> A A T A A <u>A A A G A</u> A A T A A <u>A A A G A</u> A A T A A <u>A A A G A</u> A	<u>T T T G T C A G A G A</u> 1950 <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u> <u>1950</u>	<u>I T A T</u> Majority <u>1660</u> 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-1 FBG.dcm-3 SF10291.dcm 942J.dcm 10936VA.dcm 12256U.dcm 1235VA.dcm 1235VA.dcm 12936VA.dcm 12936VA.dcm 12936VA.dcm 12936VA.dcm 1217.dcm-1 A G A 14352VA.CDS17.I A G A 14947.CDS17.I A G A 1272.CDS17.I-1 A G A 21127.CDS17.I-1 A G A 21127.CDS17.I-1 A G A 21127.CDS17.I-1
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\mathbf{G} & \mathbf{G} & \mathbf{A} & \mathbf{A} & \mathbf{T} & \mathbf{T} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{G} & \mathbf{A} & \mathbf{A} & \mathbf{T} & \mathbf{T} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{G} & \mathbf{A} & \mathbf{A} & \mathbf{T} & \mathbf{T} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{G} & \mathbf{A} & \mathbf{A} & \mathbf{T} & \mathbf{T} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{G} & \mathbf{A} & \mathbf{A} & \mathbf{T} & \mathbf{T} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{G} & \mathbf{A} & \mathbf{A} & \mathbf{T} & \mathbf{A} & \mathbf{T} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{G} & \mathbf{A} & \mathbf{A} & \mathbf{T} & \mathbf{A} & \mathbf{T} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & \mathbf{G} & \mathbf{A} & \mathbf{A} & \mathbf{T} & \mathbf{A} & \mathbf{T} \\ \mathbf{A} & \mathbf{G} & \mathbf{A} & \mathbf{G} & 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007	2110	2120	2130	2140	2150	2160	2170
997							21127.dcm-2 21127.dcm-3
1002							FBG.dcm-1
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993							SP10291.dcm
1007							942J.dcm
1006							12256U.dcm
989							14352VA.dcm
1005							18847.dcm
999							21127.dcm-1
2059	TGAACITIGIGAAAT	CGTTTAGTTTT	TATTGAA	AATGGAA	GATATCAAAAC	TTATTTAATGGA	C A C 14352VA.CDS17.I
2066	TGAACTTTGTGAAACT	CGTTTAGTTT. CGTTTAGCTTT	TATTGAA TTTGAA	A A T A A T G G A A A A T A A T G G A A	G A T A T C R A R A C G A T A T C A A A A C	TTATTTATGGA	C A C 18847.CDS17.I C A C 19791.CDS17.I
2066	TGAACTTTGTGAAT	CGTTTAGCTTT	TGTTTGAA	AATAACGGAA	G A T A T C A A A A C	TTATTTATGGA	C A T 21127.CDS17.I-1
2067	TGAACTTTGTGAAT	C G T T T A G C T T T	T T G T T T G A A	AATAACGGAA	GATATCAAAAC	TTATTTAATGGA	C A T 21127.CDS17.I-2
2007	TGAACTTTGTGAAT	CGTTTAGCT	TGTTGAA	AATAATGGAA	GATATICAAAAC	TTATTTATGGA	C A T FBG.CDS17.1-1
2070	TGAACTTTGTGAAT	CGTTTAGCTTT	TGTTGAA	AATAATGGAA	GATATCAAAAC	TTATTTATGGA	C A T FBG.CDS17.I-2
2070	TGAACTTTTGTGAAAT	CGTTTAGCTTAGCT	TIGITIGAA TETTGAA	A A T A A T G G A A A A T A A T G G A A	БАТАТСААААС БАТАТСААААС	T T A T T T A A T G G A T T A T T T A A T G G A	C A C SP10291.CDS17.1-3
2066	TGAACTTTGTGAAT	CGTTTAGCTTT	TGTTGAA	AATAATGGAA	GATATCAAAAC	TTATTTATTGGA	C A C 942J.CDS17.I
2060	TGAACTTTGTGAAAT	CGTTTAGCTTT	TATTGAA	AATAATGGAA	GATATCAAAC GATATCAAAC	TTATTTAATGGA	C A T 10936VA.CDS17.I
1970	TCAATCTCAAAAAT	TT(	T - T T T A G C	<u>A</u> ACAATAAAA	T C - G A A T	TTACA-AATAAT	T C T 10936VA.CD517.II
1983	TCAATCTCAAAAT	T T (	IT-TTAGC	GACAATAAAA	T C A G A A T	TTACA-AATAAT	T.C.A 12256U.CDS17.II-1
1983	T C A A T C T C A A A A A T		5 1 - 1 1 1 A G U 5 1 - 1 1 T A G C	GACAAIAAAA AACAATAAAA	TCAGAAT	1 1 A C A - A A I A A I T T A C A - A A T A A T	T.C.T. 14352VA.CDS17.II-2
1968	TCAATCTCAAAAAT	TT(	GT - TTTAGC	A A C A A T A A A A	T C - G A A T	TTACA-AATAAT	T C T 16753.CDS17.II-1
1967	T C A A T C T C A A A A A T	1 T (		AACAATAAAA GLCLLTLLAA	TC - GAAT	TTACA-AATAAT TTACA-AATAAT	TCT 16753.CDS17.II-2
1983	T C A A T C T C A A A A A T	TT.	T - T T T A G C	GACAATAAAA	T C A G A A T	TTACA-AATAAT	T C A 19791.CDS17.II-2
1968	TCAATCTCAAAAAT	II(	IT - T T T A G C	GACAATAAAA	T C A G A A T	TTACA-AATAAT	TCA SP10291.CDS17.II
1979	T C A A T C T C A A A A A T T C A A T C T C A A A A A T	TT	T T T T T A G C	GACAATAAAA GACAATAAAA	T C A G A A T	TTACA-AATAAT TTACA-AATAAT	T-C-I 727J.CDS17.II T-C A 942J.CDS17.II
1979	T C A A T C T C A A A A A T		T - T T T A G C	AACAATAAAA	T C A G A A T	TTACA-AATAAT	T C T 2740.CDS17.II-1
1976	T C A A T C T C A A A A A T	TI(	3 T - T T T A G C 3 T - T T T A G C	A A C A A T A A A A A A A A A A A A A A	T C A G A A T	T T A C A - A A T A A T T T A C A - A A T A A T	T C T 2740.CDS17.II-2
1900				0 A.M.A.A.A.A.A.A.A.A.			1.0 A 74477A 00017.11
	CCTTATGAAGCATT	XTATAATGGCT	атасааатя			TTTAATGTTATA	G A T A Majority
	CCTTATGAAGCATT 2180	X T A T A A T G G C T 2190	<u>ATACAAATA</u> 2200	2210	: T T C A A A A 2220	TTTAATGTTATA 2230	GATA Majority 2240
997	<u>C C T T A T G A A G C A T T</u> 2180	<u>X T A T A A T G G C T</u> 2190	<u>АТАСАААТА</u> 2200	2210	2220	<u>T T T A A T G T T A T A</u> 2230	<u>G A T A</u> Majority 2240 21127.dcm-2
997 998	<u>C C T T A T G A A G C A T T</u> 2180	<u>X T A T A A T G G C T</u> 2190	<u>АТАСАААТА</u> 2200	<u>. T T A A T T T T T T C</u> 2210	: Т Т С А А А А 2220	<u>T T T A A T G T T A T A .</u> 2230	<u>G A T A</u> Majority 2240 21127.dcm-2 21127.dcm-3
997 998 1002	<u>C C T T A T G A A G C A T T</u> 2180	<u>ХТАТААТGGСТ</u> 2190	<u>A T A C A A A T A</u> 2200	2210	<u>ТТСАААА</u> 2220	<u>T T T A A T G T T A T A </u> 2230	<u>G A T A</u> Majority 2240 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2
997 998 1002 1002 1002	<u>C C T T A T G A A G C A T T</u> 2180	<u>X T A T A A T G G C T</u> 2190	<u>A T A C A A A T A</u> 2200	<u>2210</u>	2220	<u>T T T A A T G T T A T A</u> 2230	<u>G A T A</u> Majority 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3
997 998 1002 1002 1002 993	<u>C C T T A T G A A G C A T T</u> 2180	<u>ХТАТААТ G G C T</u> 2190	<u>A T A C A A A T A</u> 2200	<u>2210</u>	2220	<u>T T T A A T G T T A T A</u> 2230	<u>G A T A</u> Majority 2240 21127.dcm-2 21127.dcm-3 FBG.dcm-3 FBG.dcm-3 FBG.dcm-3 SP10291.dcm
997 998 1002 1002 993 1007 995	<u>C C T T A T G A A G C A T T</u> 2180	<u>X T A T A A T G G C T</u> 2190	<u>A T A C A A A T J</u> 2200	<u>2210</u>	2220	<u>T T T A A T G T T A T A</u> 2230	<u>G A T A</u> Majority 2240 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 1093VJ.dcm
997 998 1002 1002 993 1007 995 1006	<u>C C T T A T G A A G C A T T</u> 2180	<u>X T A T A A T G G C T</u> 2190	<u>A T A C A A A T J</u> 2200	<u>1 T T A A T Ț T T T T C</u> 2210	<u> T T C A A A A</u> 2220	<u>T T T A A T G T T A T A</u> 2230	<u>G A T A</u> Majority 2240 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 942J.dcm 10936VA.dcm
997 998 1002 1002 993 1002 993 1005 1006 989	<u>C C T T A T G A A G C A T T</u> 2180	<u>ХТАТААТGGСТ</u> 2190	<u>A T A C A A A T F</u> 2200	<u>1 T T A A T T T T T T C</u> 2210	<u> T T C A A A A</u> 2220	<u>T T T A A T G T T A T A</u> 2230	<u>G A T A</u> Majority 2127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 9423.dcm 10936VA.dcm 12256U.dcm 14352VA.dcm
997 998 1002 1002 993 1007 995 1006 989 1005 997	<u>C C T T A T G A A G C A T T</u> 2180	<u>ХТАТААТ G G C T</u> 2190	<u>A T A C A A A T F</u> 2200	<u>1 T T A A T T T T T T C</u> 2210	<u> Т Т С А А А А</u> 2220	<u>T T T A A T G T T A T A</u> 2230	<u>G A T A</u> Majority 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SF10291.dcm 10336VA.dcm 10336VA.dcm 14352VA.dcm 18847.dcm
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& - & - & T & T & C & A & A & A \\ \hline & & 2220 \\ \end{array}$	<u>I I I A A I G I I A A A</u> 2230 2230 A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G A C A A <u>T</u> G G A <u>G</u> C G G G A C A A <u>T</u> G G A <u>G</u> C G G G A C A A <u>T</u> G G A <u>G</u> C G G G A C A <u>A <u>T</u> G G A <u>G</u> C G G G A C A <u>A <u>T</u> G G A <u>G</u> C C G G A C A <u>A <u>T</u> G G A <u>G</u> C C G G A C A <u>A <u>T</u> G G A <u>G</u> C C G G A C A <u>A <u>T</u> G G A <u>G</u> C C G G A C A <u>A <u>T</u> C C A <u>A</u> <u>G</u> C C G G A C A <u>A <u>T</u> C C A <u>A</u> <u>T</u> A <u>T</u> <del>X T <u>X</u> X X X X X X X X X X X X X X X X X X</del></u></u></u></u></u></u></u>	<u>G À T À</u> Majority 2240 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-2 FBG.dcm-3 SF10291.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 1093777.dcm 1093777777777777777777777777777777777777
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G} & {\rm I} \\ {\rm G} & {\rm G} & {\rm A} & {\rm A} & {\rm C} & {\rm A} & {\rm A} & {\rm I} & {\rm G} & {\rm I} \\ {\rm G} & {\rm G} & {\rm A} & {\rm A} & {\rm C} & {\rm A} & {\rm A} & {\rm I} & {\rm G} & {\rm I} \\ {\rm G} & {\rm G} & {\rm A} & {\rm A} & {\rm C} & {\rm A} & {\rm A} & {\rm I} & {\rm G} & {\rm I} \\ {\rm G} & {\rm G} & {\rm A} & {\rm A} & {\rm C} & {\rm A} & {\rm A} & {\rm A} & {\rm I} & {\rm G} & {\rm I} \\ {\rm G} & {\rm G} & {\rm A} & {\rm A} & {\rm C} & {\rm A} & {\rm A} & {\rm A} & {\rm I} & {\rm G} & {\rm I} \\ {\rm G} & {\rm G} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} \\ {\rm G} & {\rm G} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} \\ {\rm G} & {\rm G} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} \\ {\rm C} & {\rm C} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} \\ {\rm C} & {\rm C} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} \\ {\rm C} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} \\ {\rm C} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} \\ {\rm C} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} \\ {\rm C} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} \\ {\rm C} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} \\ {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} \\ {\rm C} & {\rm C} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} \\ {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} \\ {\rm A} & {\rm A} & {\rm A} & {\rm A} & {\rm A} $	$\begin{array}{c} T & T & T & T & T & T & T & T & T & T $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c} \mathbf{A} \ \mathbf$	$ \begin{array}{c} \mathbb{C} & \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{T} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{T} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{T} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{T} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{T} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{T} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{T} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{A} & \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{C} & \mathbb{A} & \mathbb{A} \\ \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{C} & \mathbb{C} & \mathbb{A} \\ \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{C} & \mathbb{A} \\ \mathbb{T} & \mathbb{T} & \mathbb{C} & \mathbb{T} & \mathbb{C} & \mathbb{C} & \mathbb{C} & \mathbb{A} \\ \end{array} \end{array}$	$ 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	2320	2330	2340	2350	2360	2370	2380
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997 998 1002 1002 993 1007 995 1006 997 2415 2416 2416 2416 2420 2420 2420 2420 2420 2420 2420 242	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	G         I         I         G         A         C         A         C         G         C         C         G         C	A         A         A         C         A         T         A         A         G         G         G         T         T         A         A         A         G         G         G         T         T         A         A         A         G         G         G         T         T         A         A         A         G         G         G         T         T         A         A         A         G         G         G         T         T         A         A         A         G         G         G         T         T         A         A         A         C         G         G         T         T         A         A         A         C         G         G         T         T         A         A         A         C         G         G         T         A         A         A         C         G         G         T         A	A A A T A T C C A X 2490 A A A T A T C C A A 2490 A A A T A T C C A A C A A T A T C C A A C A A T A T C C C A A C C C C A A A T A T C C C A A C C C C C C C C C C C C C C C C C C C	$\begin{array}{c} \begin{array}{c} G & A & T & G & T & - & T & A & G \\ \hline 2 & 2 & 5 & 0 & 0 \\ \hline \\ \hline \\ & & & & & \\ \hline \\ & & & & \\ \hline \\ & & & &$	A         T         G         T         A         C         G         C         A         C         G         Z           2510         25	Majority 20 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SP10291.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 10936VA.dcm 109370.dcm 119791.dcm 21127.dcm-1 10936VA.CDS17.II 10931.CDS17.I-1 21127.CDS17.I-2 21127.CDS17.I-2 21127.CDS17.I-2 21127.CDS17.I-2 21127.CDS17.I-2 21127.CDS17.I-1 21127.CDS17.I-1 21127.CDS17.I-1 21127.CDS17.I-1 12256U.CDS17.II-1 12256U.CDS17.II-1 12256U.CDS17.II-1 12256U.CDS17.II-1 12256U.CDS17.II-1 14553.CDS17.II-2 14532VA.CDS17.II-1 16753.CDS17.II-1 19791.CDS17.II-1 19791.CDS17.II-1 219701.CDS17.II-1 2703.CDS17.II-1 2703.CDS17.II-1 2703.CDS17.II-1 2703.CDS17.II-1 2703.CDS17.II-1 2704.CDS17.II-1

	ARARITI A TOORTI	TIANICANAA				1	
	2530	2540	2550	2560	2570	2580	2590
997 998							21127.dcm-2 21127.dcm-3
1002							FBG.dcm-1
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995							10936VA.dcm
1006							12256U.dcm
989							14352VA.dcm
997							19791.dcm
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2476	A A A A I C C T G G T G A T T	TTACTGTTAA1	AATGCTACAA	G T G A T G A C G C	TATCTAGAAT	TATICA A A A C T	G T C A 14352VA.CDS17.I
2482	AAATCCTGGTGATT	TTACTGTTAAT	AATGCCACAA	GCGATGATG	ATCTAGAAT	TATTCAAAACT	G T C A 19791.CDS17.I
2484	AAATCCTGGTGATT	TTACTGTTAAT	AATGCCACAA	GTGATGATG	ATCTAGAAT	TTCAAAACT	G T C A 21127.CDS17.I-1
2485	AAATCCTGGTGATT	TTACTGTTAAT	AATGCCACAA	GTGATGATG	ATCTAGAAT	TTCAAAACT	G T C A 21127.CDS17.I-2
2405	AAAATCCTGGTGATT	TTACTATIAAT	AATGCCACAA	GTGATGATG	ATCITAGAAT	TATTCAAAACT	G T C A FBG.CDS17.1-1
2489	AAATCCTGGTGATT	TTACTATIAAJ	AATGCCACAA	GTGATGATG	ATCTAGAAT	TTCAAACT	G T C A FBG.CDS17.I-2
2489	AAAATCCTGGTGATT	TIACTATIAAI	AATGCCACAA	GTGATGATG	ATCTAGAAT	TTCAAAACT	G T C A FBG.CDS17.I-3
2472	A A A A TOCCILG GIGA A A A	TTACTATTAAT	AAIGCCACAA	GTGATGATG	A TOTAGAAT	ATTCA AAACT	G T C A 942J.CDS17.1
2478	AAATCCTGGTGATT	TTACTATTAAT	AATGCCACAA	GTGATGATG	ATCTAGAAT	ATTCAAGCT	G T G A 10936VA.CDS17.I
2486	AAATCCTGGTGATT	TTACTATTAAI	AACGCCACAA	GTGATGATG	ATCTAGAAT	TATTCAAAACT	G T C A 12256U.CDS17.I
2352	A A A A T T T T A T G G A T T	TTAATCAAAA	CAATTAGTTC	AAACTAAAT	TGCGGGGAT	I C I A G A A A A I A I C I A G A A A A A I A	T.G.C.A. 12256U.CDS17.II-1
2351	AAAATTTTATGGATT	TLAATCAAAAJ	CAATTAGTTC	AAACTAAAT	TGGGGGGAT	C.T.A.G.A.A.A.T.A	I G C A 12256U.CDS17.II-2
2343	A A A A T T T T A T G G A T T	TCAATCAAAA	CAATTAGTTC	AAACTAAAT		I C T A G A A A A T A	T.G.C.A 14352VA.CDS17.II
2332	A A A A T T T T A T G G A T T	TTAATCAAAA	CAATTAGTTC	AAACTAAAT	I - A T G G G - A T	C T A G A A A A T A	T.G.C.A. 16753.CDS17.II-1
2352	AAATTTTATGGATT	TTAATCAAAA	CAATTAGTTC	AAACTAAAT	тесессат	I C T A G A A A A T A	T.G.C.A. 19791.CDS17.II-1
2351	AAAATTTATGGATT	TTAATCAAAA	CAATTAGTTC	AAACTAAAT(	TGCGGGGAT	C T A G A A A A T A	T G C A 19791.CDS17.II-2
2337	A A A A T T T T A T G G A T T	TCAATCAAAA	CAATTAGTTC	AAACTAAAT	TGCGGGGGAT	C T A G A A A A T A	T G C A 727J.CDS17.II
2350	AAAATTTTATGGATT	TTAATCAAAAJ	CAATTAGTTC	AAACTAAAT	TGCGGGGAT	I C T A G A A A A T A	I G C A 942J.CDS17.II
2347	AAAATTTTATGGATT	TTAATCAAAA	CAATTAGTTC	AAACTAAAT	TGCAGGAT	C T A G A A A A T A	T G C A 2740.CDS17.II-1
2344	AAAATTTTATGGATT	TTAATCAAAA	CAGITAGITC	AAACTAAAT	T G C G G G A A T	C T G G A A A A T A	T.G.C.A. 2740.CDS17.11-2
	ATATTCAATAACTCT	AAGATCTAATI	ATCAAGATAT	AGAAGCATTI	ААААСТСТА	TTGAAAATAG	<u>A A T G</u> Majority
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997	<u>ATATTCAATAACTCT</u> 2600	<u>AAGATCTAAT1</u> 2610	<u>атсаадатат</u> 2620	<u>AGAAGCATTI</u> 2630	<u>аааастста:</u> 2640	<u>1 T T G A A A A T A G</u> 2650	A A T G Majority 2660 21127.dcm-2 21127.dcm-3
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997 998 1002 993 1002 993 1007 995 2554 2555 2559 2559 2559 2559 2559	<u>A T A T T C A A T A A C T C T</u> 2600 <u>2600</u> <u>A T A T T C - G T A T T C T T</u> <u>7 A T A T T C T T C T T T C T T T T C T T T T</u>	$\begin{array}{c} \begin{array}{c} \textbf{A} \textbf{A} \textbf{G} \textbf{A} \textbf{T} \textbf{C} \textbf{T} \textbf{A} \textbf{A} \textbf{T} \end{array} \\ \hline 2610 \end{array} \\ \hline \end{array}$	A T C A A G A T A T           2620           A G A G A T A T           2620           A G A G A T A T           A G A A G A T A T           A T C A A G A T A T           A T C A A G A T A T           A T C A A G A T A T           A T C A A G A T A T           A T C A A G A T A T           A T C A A G A T A T           A T C A A G A T A T           A T C A A G A T A T           A T C A A G A T A T	$\begin{array}{c} \mathbf{A} \ \mathbf{G} \ \mathbf{A} \ \mathbf{A} \ \mathbf{G} \ \mathbf{A} \ \mathbf{G} \ \mathbf{G} \ \mathbf{A} \ \mathbf{G} \ $	$\begin{array}{c} 2640 \\ \hline \\ 2640$	ITTGAAAATAG           2650           ITTAAAAAC           ITTAAAAAAA           ITTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	A A T G Majority 2660 21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-3 FBG.dcm-3 SD10291.dcm 9423.dcm 10936VA.dcm 12256U.dcm 14352VA.dcm 12256U.dcm 14352VA.dcm 123570.dcm 21127.dcm-1 T [A] A T 14352VA.cDS17.I T [A] A T 1932VA.cDS17.I T [A] A T 1937.CDS17.I-2 T [A] A T 19127.CDS17.I-3 T [A] A T 19127.CDS17.I-1 T [A] A T 19127.CDS17.I-1 T [A] A T 19127.CDS17.I-1 T [A] A T 19127.CDS17.I-1 T [A] A T 19036VA.CDS17.I-1 T [A] A T 19036VA.CDS17.I-1 T [A] A T 19036VA.CDS17.I-1 T [A] A T 19036VA.CDS17.I-1 T [A] A T 9423.CDS17.I-1 T [A] A T 943.CDS17.I-1 T [A] A T 943.CDS17

	CCTTTAATAXAACA	AGAATTGCAAT	TTTTATCTTC	TGCXXGATTT	GGGGXXGGAA	TATTATCAAT	K G A T A Majority
	2670	2680	2690	2700	2710	2720	2730
997 998 1002 1002 993 1007 995 1005 989 1005 2624 2625 2629 2629 2629 2629 2629 2629 2629	C C T T T A A T A X A A C A           2670           C A A T T A T T X C X A A C           C A A T T A T T X C X A A C           C A A T A T T X C X A A C           C A A T T A T T X C X A A C	I G X X A T T G C A A T 2680 I G X X A T T A G A T I G X A T A G A T T A G A T I G X A A T T A G A T T A G A T I G X A A T T A G A T T A G A	<u>I</u> <u>T</u> <u>T</u> <u>T</u> <u>A</u> <u>T</u> <u>C</u> <u>T</u> <u>A</u> <u>C</u> <u>C</u> <u>T</u> <u>A</u>	T G C X X G A T T T           2700           T G C A A G A T A T           2700           T G C A A G A T A T	<u>G G G G X X G G A A</u> 2710 <u>6 G A A A T G I T</u> G G A A A A T G I T G G A A A T G I T	<u>T A T T A T C A A T T</u> 2720 <u>2720</u> <u>7 A T T T T C A A T</u> T A T T T T C A A T T A T T T T C A A T T A T T T T C A A T T A T T T T C A A T T A T T T T C A A T T A T T T C A A T	X G A T A Majority 2730 21127.dcm-2 21127.dcm-3 FB6.dcm-1 FB6.dcm-2 FB6.dcm-3 SF10291.dcm 942J.dcm 10936VA.dcm 12256U.dcm 13352VA.dcm 16847.dcm 16847.dcm 18791.dcm 21127.dcm-1 A A G T T 14352VA.CDS17.I A A G T T 19791.CDS17.I A A G T FB91.CDS17.I-3 A A G T FB6.CDS17.I-3 A G T FB6.CDS17.I-3 A A G T FB6.CDS17.I-3 A A G T FB6.CDS17.I-3 A A G T FB6.CDS17.I-3 A A G T FB6.CDS17.I-3 A A G T FB6.CDS17.I-3 A G T FB6.CDS17.I-3 A G T FB6.CDS17.I-3 A G G T FB6.C
2471 2491 2480 2472 2470 2492 2491 2477 2486 2490 2487 2484	$\begin{array}{c} C \ C \ T \ T \ T \ A \ A \ G \ A \ - \ - \ A \ C \ A \$			$\begin{array}{c} \underline{\mathbf{c}}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{C} \\ \hline \mathbf{I}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I}  \mathbf{C} \\ \hline \mathbf{I}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I}  \mathbf{C} \\ \hline \mathbf{I}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I}  \mathbf{C} \\ \hline \mathbf{I}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I}  \mathbf{C} \\ \hline \mathbf{A}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I}  \mathbf{C} \\ \hline \mathbf{A}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I}  \mathbf{I} \\ \hline \mathbf{A}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I}  \mathbf{I} \\ \hline \mathbf{A}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I}  \mathbf{I} \\ \hline \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I} \\ \hline \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I} \\ \hline \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I} \\ \hline \mathbf{T}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I} \\ \hline \mathbf{T}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I} \\ \hline \mathbf{T}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I} \\ \hline \mathbf{T}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I} \\ \hline \mathbf{T}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I} \\ \hline \mathbf{T}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{I}  \mathbf{I} \\ \hline \mathbf{T}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{A}  \mathbf{I} \\ \hline \mathbf{T}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{C}  \mathbf{A}  \mathbf{I} \\ \hline \mathbf{T}  \mathbf{C}  \mathbf$	G         G         G         G         G         G         A	$\begin{array}{c} \textbf{I} \textbf{X} \textbf{X} \textbf{T} \textbf{X} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \textbf{X} \textbf{T} \\ \textbf{I} \textbf{X} \textbf{X} \textbf{T} \textbf{X} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \textbf{A} \textbf{C} \\ \textbf{X} \textbf{X} \textbf{T} \textbf{X} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \textbf{A} \\ \textbf{C} \textbf{X} \textbf{T} \textbf{X} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \textbf{A} \\ \textbf{T} \textbf{X} \textbf{T} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \textbf{A} \\ \textbf{T} \textbf{X} \textbf{T} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \textbf{A} \\ \textbf{T} \textbf{X} \textbf{T} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \textbf{A} \\ \textbf{T} \textbf{X} \textbf{T} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \textbf{A} \\ \textbf{T} \textbf{X} \textbf{T} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \\ \textbf{T} \textbf{X} \textbf{T} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \\ \textbf{T} \textbf{X} \textbf{T} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \\ \textbf{T} \textbf{X} \textbf{T} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \\ \textbf{T} \textbf{X} \textbf{T} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \\ \textbf{T} \textbf{X} \textbf{T} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \\ \textbf{T} \textbf{T} \textbf{X} \textbf{T} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \\ \textbf{T} \textbf{T} \textbf{X} \textbf{T} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \textbf{T} \\ \textbf{T} \textbf{T} \textbf{T} \textbf{X} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \textbf{T} \\ \textbf{T} \textbf{T} \textbf{X} \textbf{T} \textbf{T} \textbf{C} \textbf{C} \textbf{X} \\ \textbf{T} \end{array} \end{array}$	[ G.A.T.A. 10936VA.CDS17.II [ G.A.T.A. 12256U.CDS17.II- [ G.A.T.A. 12256U.CDS17.II- [ G.A.T.A. 14352VA.CDS17.II- [ G.A.T.A. 16753.CDS17.II- ] [ G.A.T.A. 16753.CDS17.II- ] [ G.A.T.A. 16751.CDS17.II- ] [ G.A.T.A. 15791.CDS17.II- ] [ G.A.T.A. 15791.CDS17.II- ] [ G.A.T.A. 15792.CDS17.II ] [ G.A.T.A. 15792.CDS17.II ] [ G.A.T.A. 2732.CDS17.II ] [ G.A.T.A. 2732.CDS17.II ] [ G.A.T.A. 2740.CDS17.II- ] [ G.A.T.A. 2740.CDS17.II- ] [ G.A.T.A. 2740.CDS17.II- ] [ G.A.T.A. 2740.CDS17.II-
2491	CCTTTAACAGAACA	AGAATTGCAAT	TITIATCITC	TGCTCCGATT	GGGGGGAA	TATIATCAAT	C <u>G A T A</u> 7447VA CDS17.II
	ACACAACAAGATTT	CAATTCGAATC	TTATTACAAT	GAATTAGAAA	GAAAATTATT	ATTTAACAAT	G G C G A Majority
	2740	2750	2760	2770	2780	2790	2800
997 998 1002 1002 993 1007 995 1006 989 1005 997 999	I	i		, ,			21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-2 FBG.dcm-3 SF10291.dcm 10936VA.dcm 12256U.dcm 14352VA.dcm 18847.dcm 18791.dcm 21127.dcm
2685 2694 2692 2695 2695 2695 2699 2699 2699 2682 2695 2687 2696 2588 2561 2549 2541 2541 2541 2545	$ \begin{array}{c} \mathbf{C} \ \mathbf{A} \ \mathbf{\bar{A}} \ \bar{$	$\begin{array}{c} \mathbf{A} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{I} \; \mathbf{G} \; \mathbf{A} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \; \mathbf{I} \\ \mathbf{A} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{I}} \; \mathbf{I} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \; \mathbf{A} \\ \mathbf{A} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{I}} \; \mathbf{I} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \; \mathbf{A} \\ \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \\ \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{C}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \; \mathbf{A} \\ \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{C}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \\ \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{C}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \\ \mathbf{A} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{T}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \\ \mathbf{A} \; \mathbf{G} \; \stackrel{\mathbf{G}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{T}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \\ \mathbf{A} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{T}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \\ \mathbf{A} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{T}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \\ \mathbf{A} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{T}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \\ \mathbf{A} \; \mathbf{A} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{T}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \; \mathbf{A} \\ \mathbf{A} \; \mathbf{A} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{G} \; \stackrel{\mathbf{T}}{\mathbf{I}} \; \mathbf{G} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{A} \; \mathbf{A} \\ \mathbf{A} \; \mathbf{G} \; 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\stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{T} \\ \mathbf{G} \; \mathbf{A} \; \mathbf{A} \; \mathbf{G} \; \stackrel{\mathbf{C}}{\mathbf{A}} \; \mathbf{A} \; \mathbf{T} \\ \mathbf{G} \; \stackrel{\mathbf{C}}{\mathbf{A}} \; \stackrel{\mathbf{A}}{\mathbf{A}} \; \mathbf{T} \; \mathbf{G} \; \mathbf{G} \; \stackrel{\mathbf{C}}{\mathbf{A}} \; \mathbf{A} \; \mathbf{T} \; \mathbf{G} \; \mathbf{A} \; \mathbf{A} \; \mathbf{A} \; \mathbf{C} \\ \mathbf{G} \; \mathbf{A} \; \mathbf{A} \; \mathbf{T} \; \mathbf{C} \; \mathbf{G} \; \mathbf{A} \; $	$\begin{array}{c} T & T & T & T & T & T & T & T & T & T $	A         A         A         T         T         A	$\begin{array}{c} \mathbf{A}, \mathbf{A} & \mathbf{C} & [\mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{A}, \mathbf{C}, [\mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{A}, \mathbf{C}, [\mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{A}, \mathbf{C}, [\mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{A}, \mathbf{C}, [\mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{A}, \mathbf{C}, [\mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{A}, \mathbf{C}, [\mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{A}, \mathbf{C}, [\mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{A}, \mathbf{C}, [\mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{A}, \mathbf{C}, [\mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{A}, \mathbf{C}, [\mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{A}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{C}, \mathbf{T}, \mathbf{T}, \mathbf{C}, \mathbf{C}, \mathbf{A}, \mathbf{A}, \mathbf{C}, \mathbf{T}, \mathbf{C},	$\begin{array}{c} T,T,T \\ T,T	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

	TTTAAAAGCAATTG	CAAXXXXXXXX
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2754	১ জিটি ১ জিটির সার জিটির জিটির জনসংখ্যার জিটির সার জিটির জিটির	T 3078
2763	ATAA GAATGAATT	T 8 6
2761	A TA A A GA A T GA A T T	7 2 2
2763	ATARAGAATGAATT	TAXA
2764	ATAAAGAATGAATT	TAA
2764	ATAAAGAATGAATT	TAA
2768	ATAAAGAATGAATT	TAA
2768	ATAAAGAATGAATT	TAA
2768	ATAAAGAATGAATT	TAA
2751	ATAAAGAATGAATT	TAA
2764	ATAAAGAATGAATT	TAA
2756	ATAAAGAATGAATT	T A A
2765	ATAAAGAATGAATT	T A A
2608	TTTAAAAGCAATTG	CAAATAATTAA
2631	TTTAAAAGCAATTG	G A A A T A A T T A A
2631	I I I A A A A G C A A T I G	CAAATAATTAA
2619	I L I A A A A G C A A L I G	CARATAATIAA
2611	TITAAAGCAATIG	COARA A I A A I I A A
2600	1 1 1 A A A A G C A A 1 1 G T T T N N N N C C N N T T C	C A A A I A A I I A A
2632	+ + + + + + + + + + + + + + + + + + +	CONAL ALAALIAA
2615	T T T A X A X C C A X T T C	CANA ATAATTAA
2625	TTTAAAAGCAATTG	CAAATAATTAA
2630	TTTAAAAGCAATTG	CAAATAATTAA
2626	TTTAAAAGCAATTG	CAAATAATTAA
2623	TTTAAAGCAATTG	CAAATAATTAA
2631	TTTAAAAGCAATTG	CA A A T A A T T A A

21127.dcm-2 21127.dcm-3 FBG.dcm-1 FBG.dcm-3 FBG.dcm-3 FBG.dcm-3 SP10291.dcm 12352V.dcm 12352V.dcm 12352V.dcm 12452VA.dcm 12452VA.dcm 12452VA.dcm 12452VA.dcm 12452VA.dcm 12127.dcm-1 14352VA.dcm 12127.dcm 12550.dcm 121.dcm 12550.dcm 17.11 12550.dcm 17.11 12750.dcm 17.11 12750.dcm 17.11 12740.dcm 17.11 2740.dcm 1

Decoration 'Decoration  $\sharp l'\colon$  Box residues that match the Consensus exactly.

Decoration 'Decoration #2': Shade (with black at 10% fill) residues that match the Consensus exactly.

Decoration 'Decoration #3': Box residues that match the Consensus exactly.

## Majority
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