

Table 1: Sequences selected for the final dataset of PR-5

Accession	Entry name	Length	Weight	Species	Gene name	Protein name	PE	Date
Q9ARG0	Q9ARG0.CAFAN	246 AA	26359 Da	<i>Capsicum annuum</i>	pr5 p23	Osmotin-like protein	2	01-DEC-2001
Q8SA57	Q8SA57.SOLNI	247 AA	26814 Da	<i>Solanum nigrum</i>		Osmotin-like protein	2	01-FEB-2005
P50701	OS13.SOLCO	246 AA	26654 Da	<i>Solanum commersonii</i>		Osmotin-like protein OSM1.3	2	01-OCT-1996
Q5XPJ5	Q5XPJ5.9SOLN	246 AA	26723 Da	<i>Solanum phureja</i>		Osmotin-like protein A13	2	23-NOV-2004
Q9FT35	Q9FT35.SOLDU	248 AA	26869 Da	<i>Solanum dulcamara</i>		Cryoprotective osmotin-like protein	2	01-MAR-2001
O8LP11	O8LP11.SOLLC	226 AA	24590 Da	<i>Solanum lycopersicum</i>	PR-5	PR-5x	2	01-OCT-2002
P12670	NP24.SOLLC	247 AA	26646 Da	<i>Solanum lycopersicum</i>		Protein NP24	1	15-JUL-1999
B2CZJ9	B2CZJ9.CAFAN	251 AA	27155 Da	<i>Capsicum annuum</i>		PR5-like protein	2	20-MAY-2008
P50702	OS81.SOLCO	247 AA	26659 Da	<i>Solanum commersonii</i>		Osmotin-like protein OSM1.81	2	01-OCT-1996
P14170	OSMO.TOBAC	246 AA	26681 Da	<i>Nicotiana tabacum</i>	AP24	Osmotin	1	01-OCT-1996
Q94JN9	Q94JN9.PETHY	246 AA	26403 Da	<i>Petunia hybrida</i>	OSM	Osmotin	2	01-DEC-2001
P25871	OLPA.TOBAC	251 AA	27652 Da	<i>Nicotiana tabacum</i>	OLPA	Osmotin-like protein	1	01-MAY-1992
Q75W82	Q75W82.TOBAC	251 AA	27541 Da	<i>Nicotiana tabacum</i>	PR-5dB	Pathogenesis-related protein	2	05-JUL-2004
Q7Y1P9	Q7Y1P9.SOLLC	250 AA	27527 Da	<i>Solanum lycopersicum</i>		PR5-like protein	2	01-OCT-2003
P50703	OS35.SOLCO	250 AA	27449 Da	<i>Solanum commersonii</i>		Osmotin-like protein OSM1.5	2	01-OCT-1996
Q6X1B8	Q6X1B8.CAFAN	250 AA	27362 Da	<i>Capsicum annuum</i>	OSM1	Osmotin-like protein	2	05-JUL-2004
Q9M3X2	Q9M3X2.SOLLC	249 AA	27486 Da	<i>Solanum lycopersicum</i>	PR-5	Pathogenesis-related protein (PR-5 protein)	3	01-OCT-2000
Q9SPE0	Q9SPE0.VITRI	247 AA	26867 Da	<i>Vitis riparia</i>		Thaumatin	2	01-MAY-2000
A9QVJ4	A9QVJ4.9MAGN	230 AA	24729 Da	<i>Piper colubrinum</i>		Osmotin	2	05-FEB-2008
Q8LSM9	Q8LSM9.HELAN	222 AA	23953 Da	<i>Helianthus annuus</i>	PR5-1	Pathogenesis-related protein 5-1	2	01-OCT-2002
P81370	TLP.ACTDE	225 AA	24221 Da	<i>Actinidia deliciosa</i>	tlp	Thaumatin-like protein	1	10-JUN-2008
Q93XD4	Q93XD4.SAMNI	226 AA	24415 Da	<i>Sambucus nigra</i>	TLP1	Thaumatin-like protein	2	01-DEC-2001
Q93XD2	Q93XD2.SAMNI	226 AA	24377 Da	<i>Sambucus nigra</i>	TLP11	Thaumatin-like protein	2	01-DEC-2001
B6ZHC0	B6ZHC0.SOYBN	240 AA	25866 Da	<i>Glycine max</i>	GmOLPb	PR-5 protein	2	10-FEB-2009
Q2VAD0	Q2VAD0.FICAW	244 AA	26264 Da	<i>Ficus awkeotsang</i>		Thaumatin-like protein isoform 1	2	10-JAN-2006
P50700	OSL3.ARATH	244 AA	26633 Da	<i>Arabidopsis thaliana</i>	OSM34	Osmotin-like protein OSM34	2	20-JUN-2002
Q7XA89	Q7XA89.ARATH	244 AA	26645 Da	<i>Arabidopsis thaliana</i>	At4g11650	At4g11650	2	01-OCT-2003
Q8LEV9	Q8LEV9.ARATH	244 AA	26628 Da	<i>Arabidopsis thaliana</i>		Osmotin	2	01-OCT-2002
P13046	PR1.TOBAC	226 AA	24667 Da	<i>Nicotiana tabacum</i>		Pathogenesis-related protein R major form	1	01-JAN-1990
P07052	PR2.TOBAC	226 AA	24552 Da	<i>Nicotiana tabacum</i>		Pathogenesis-related protein R minor form	2	01-APR-1988
O04708	O04708.VITVI	222 AA	23969 Da	<i>Vitis vinifera</i>		VVTL1	2	01-JUL-1997
A2TLL9	A2TLL9.CAMSI	226 AA	24198 Da	<i>Cameilia sinensis</i>		Thaumatin-like protein	2	06-MAR-2007
Q8GUQ2	Q8GUQ2.LINUS	263 AA	28612 Da	<i>Linum usitatissimum</i>		Osmotin-like protein linusitin	2	01-MAR-2003
Q7XAU7	Q7XAU7.VITVI	225 AA	23882 Da	<i>Vitis vinifera</i>	TL13	Thaumatin-like protein	2	01-OCT-2003
A3QRB4	A3QRB4.VITVI	225 AA	23864 Da	<i>Vitis vinifera</i>		Thaumatin-like protein	2	03-APR-2007
A3QRB5	A3QRB5.VITVI	225 AA	23935 Da	<i>Vitis vinifera</i>		Thaumatin-like protein	2	03-APR-2007
P93621	P93621.VITVI	225 AA	23875 Da	<i>Vitis vinifera</i>	OSM1	Osmotin-like protein	2	03-APR-2007
A9ZMG0	A9ZMG0.NEPAL	225 AA	23871 Da	<i>Nepenthes alata</i>	NatLP1a	Thaumatin like protein	2	01-MAY-1997
A9ZMG2	A9ZMG2.NEPAL	225 AA	23899 Da	<i>Nepenthes alata</i>	NatLP1c	Thaumatin like protein	2	26-FEB-2008
Q0QJL7	Q0QJL7.NEPGR	225 AA	23724 Da	<i>Nepenthes gracilis</i>	tlp	Thaumatin-like protein	2	05-SEP-2006

Table 2: Sequences selected for the final dataset of PR05

Accession	Entry name	Length	Weight	Species	Gene name	Protein name	PE	Date
Q2VAC9	Q2VAC9.FICAW	228 AA	24399 Da	<i>Ficus awkeotsang</i>		Thaumatin-like protein isoform 2	2	10-JAN-2006
P33679	ZEAMMA1ZE	227 AA	23999 Da	<i>Zea mays</i>	Zlp	Zeamatin	1	01-OCT-1996
Q946Y8	Q946Y8.HORVU	233 AA	24317 Da	<i>Hordeum vulgare</i>		Thaumatin-like protein TLP8	2	01-DEC-2001
Q04364	Q04364.ORYSA	238 AA	24779 Da	<i>Oryza sativa</i>		Pathogenesis-related thaumatin-like protein	2	01-JUL-1997
AI1IJ1	AI1IJ1.THADA	235 AA	25440 Da	<i>Thaumatococcus daniellii</i>		Preprothaumatin I	2	06-FEB-2007
P02883	THM1.THADA	207 AA	22204 Da	<i>Thaumatococcus daniellii</i>		Thaumatatin-1	1	21-JUL-1986
P02884	THM2.THADA	235 AA	25523 Da	<i>Thaumatococcus daniellii</i>		Thaumatatin-2	2	21-JUL-1986
AI1GE2	AI1GE2.SOYBN	224 AA	23833 Da	<i>Glycine max</i>	GmOLPa	PR-5 protein	2	06-FEB-2007
Q69CS6	Q69CS6.9CONI	225 AA	23714 Da	<i>Juniperus rigida</i>		PR5 allergen Jun r 3.1	2	13-SEP-2004
Q69CS5	Q69CS5.9CONI	225 AA	23742 Da	<i>Juniperus rigida</i>		PR5 allergen Jun r 3.2	2	13-SEP-2004
P81295	PRR3.JUNAS	225 AA	23720 Da	<i>Juniperus ashei</i>		Pathogenesis-related protein	1	01-DEC-2000
Q69CS3	Q69CS3.9CONI	225 AA	23696 Da	<i>Cupressus sempervirens</i>		PR5 allergen Cup s 3.2	2	13-SEP-2004
Q69CS2	Q69CS2.9CONI	225 AA	23769 Da	<i>Cupressus sempervirens</i>		PR5 allergen Cup s 3.1	2	13-SEP-2004
A4PBQ1	A4PBQ1.CRYJA	225 AA	23516 Da	<i>Cryptomeria japonica</i>	Cry j 3.8	Thaumatatin-like protein	2	15-MAY-2007
Q5RZ93	Q5RZ93.THUOC	230 AA	23878 Da	<i>Thuja occidentalis</i>		Thaumatatin-like protein	2	21-DEC-2004
Q4W6C7	Q4W6C7.CRYJA	231 AA	24326 Da	<i>Cryptomeria japonica</i>	Cry j 3.7	Thaumatatin-like protein	2	05-JUL-2005
A2TEG9	A2TEG9.9CONI	233 AA	24132 Da	<i>Taxus x media</i>		Acidic thaumatatin-like protein 4	2	06-MAR-2007
A2TEG5	A2TEG5.9CONI	233 AA	24160 Da	<i>Taxus x media</i>		Acidic thaumatatin-like protein	2	06-MAR-2007
A2TEG7	A2TEG7.9CONI	233 AA	24118 Da	<i>Taxus x media</i>		Acidic thaumatatin-like protein 2	2	06-MAR-2007
A2TEH0	A2TEH0.9CONI	233 AA	24158 Da	<i>Taxus x media</i>		Acidic thaumatatin-like protein 5	2	06-MAR-2007
A2TEG8	A2TEG8.9CONI	233 AA	24096 Da	<i>Taxus x media</i>		Acidic thaumatatin-like protein 3	2	06-MAR-2007
Q8H995	Q8H995.CRYJA	233 AA	24904 Da	<i>Cryptomeria japonica</i>	Cry j 3.2	Thaumatatin-like protein	2	01-MAR-2003
Q8H996	Q8H996.CRYJA	232 AA	24439 Da	<i>Cryptomeria japonica</i>	Cry j 3.1	Thaumatatin-like protein	2	01-MAR-2003
A5HIY3	A5HIY3.PINTA	234 AA	24540 Da	<i>Pinus taeda</i>	THN	Thaumatatin-like protein	2	12-JUN-2007
Q92RS9	Q92RS9.PSEM2	234 AA	24505 Da	<i>Pseudotsuga menziesii</i>	SALA.16	Thaumatatin-like protein	2	01-MAY-1999
Q5QJU2	Q5QJU2.PSEM2	233 AA	24042 Da	<i>Pseudotsuga menziesii</i>	TLP	PR-5 thaumatatin-like protein	2	04-JAN-2005
Q5DWG2	Q5DWG2.CRYJA	248 AA	26513 Da	<i>Cryptomeria japonica</i>	Cry j 3.4	Thaumatatin-like protein	2	29-MAR-2005
Q946Y9	Q946Y9.HORVU	227 AA	23644 Da	<i>Hordeum vulgare</i>		Thaumatatin-like protein TLP7	2	01-DEC-2001
Q8S4P7	Q8S4P7.WHEAT	225 AA	23598 Da	<i>Triticum aestivum</i>		Thaumatatin-like protein	2	01-JUN-2002
Q946Z0	Q946Z0.HORVU	226 AA	23726 Da	<i>Hordeum vulgare</i>		Thaumatatin-like protein TLP6	2	01-DEC-2001
Q23997	Q23997.HORVU	237 AA	25172 Da	<i>Hordeum vulgare</i>		Basic pathogenesis-related protein PR5	2	01-JAN-1998
Q5MBN2	Q5MBN2.HORVU	236 AA	24917 Da	<i>Hordeum vulgare</i>		Thaumatatin-like protein TLP5	2	01-FEB-2005
Q38769	Q38769.AVESA	228 AA	23676 Da	<i>Avena sativa</i>		Permatin	2	01-NOV-1996
Q5SFH8	Q5SFH8.PINMO	181 AA	18816 Da	<i>Pinus monticola</i>		Thaumatatin-like protein	2	21-DEC-2004
Q81927	Q81927.CICAR	175 AA	18732 Da	<i>Cicer arietinum</i>		Thaumatatin-like protein PR-5a	2	01-NOV-1998
P32937	PR1A.HORVU	173 AA	17548 Da	<i>Hordeum vulgare</i>		Pathogenesis-related protein 1A/1B	2	01-OCT-1993
P32938	PR1C.HORVU	173 AA	17576 Da	<i>Hordeum vulgare</i>		Pathogenesis-related protein 1C	2	01-OCT-1993
P27357	TLP.WHEAT	173 AA	17605 Da	<i>Triticum aestivum</i>		Thaumatatin-like protein PWIR2	2	01-AUG-1992
Q94F70	Q94F70.WHEAT	173 AA	17588 Da	<i>Triticum aestivum</i>		Thaumatatin-like protein	2	01-DEC-2001
Q9S776	Q9S776.SECCE	173 AA	17639 Da	<i>Secale cereale</i>	TLP2	Thaumatatin-like protein 1	2	01-MAY-2000

Table 3: Sequences selected for the final dataset of PR05

Accession	Entry name	Length	Weight	Species	Gene name	Protein name	PE	Date
B6TA80	B6TA80.MAIZE	171 AA	17644 Da	<i>Zea mays</i>		Thaumatin-like protein	2	16-DEC-2008
P50695	RST1.AVEGA	169 AA	17353 Da	<i>Avena sativa</i>	RASTL1-1	Thaumatin-like pathogenesis-related protein 1	2	01-OCT-1996
P50696	RST2.AVEGA	169 AA	17403 Da	<i>Avena sativa</i>	RASTL1-2	Thaumatin-like pathogenesis-related protein 2	2	01-OCT-1996
P50697	RST3.AVEGA	169 AA	17328 Da	<i>Avena sativa</i>	RASTL1-3	Thaumatin-like pathogenesis-related protein 3	2	01-OCT-1996
P50698	RST4.AVEGA	169 AA	17330 Da	<i>Zea mays</i>	PR-5	Pathogenesis related protein-5	2	01-NOV-1998
P31110	TLP.ORYSJ	177 AA	17621 Da	<i>Avena sativa</i>	RASTL1-4	Thaumatin-like pathogenesis-related protein 4	2	01-OCT-1996
B7SDH2	B7SDH2.ORYSJ	179 AA	17992 Da	<i>Oryza sativa</i>	Os12g0628600	Thaumatin-like protein	1	01-JUL-1993
Q94621	Q94621.HORVU	171 AA	18122 Da	<i>Oryza sativa</i>		Thaumatin-like protein	2	10-FEB-2009
Q3S412	Q3S412.TRIMO	176 AA	18435 Da	<i>Hordeum vulgare</i>		Thaumatin-like protein TLP4	2	04-JAN-2005
Q41584	Q41584.WHEAT	176 AA	18391 Da	<i>Triticum aestivum</i>	olp-4	Pathogenesis-related 5	2	11-OCT-2005
Q8LKF7	Q8LKF7.CHEQI	228 AA	24081 Da	<i>Triticum aestivum</i>		Thaumatin-like protein	2	01-NOV-1996
P83335	TLP2.PRUPE	242 AA	25608 Da	<i>Chenopodium quinoa</i>		Osmotin-like protein 2	2	01-OCT-2002
P50694	TLP.PRUAV	245 AA	25707 Da	<i>Prunus persica</i>		Thaumatin-like protein 2	2	01-JUN-2002
Q3BC14	Q3BC14.MALDO	246 AA	25651 Da	<i>Prunus avium</i>	Mal d 2.01B	Glucan endo-1,3-beta-glucosidase	1	01-OCT-1996
Q00MX5	Q00MX5.MALDO	246 AA	25681 Da	<i>Malus domestica</i>		Thaumatin-like protein	3	22-NOV-2005
Q9FSG7	TF1A.MALDO	246 AA	25700 Da	<i>Malus domestica</i>	Tl1	Pathogenesis-related protein 5	2	14-NOV-2006
B6E2B4	B6E2B4.PYRPY	248 AA	25943 Da	<i>Malus domestica</i>	TLP	Thaumatin-like protein 1a	1	01-MAR-2001
P83332	TLP1.PRUPE	246 AA	25765 Da	<i>Pyrus pyrifolia</i>		Thaumatin-like protein	2	25-NOV-2008
O80327	TLP1.PYRPY	244 AA	25308 Da	<i>Pyrus pyrifolia</i>	Tl1	Thaumatin-like protein 1	2	01-JUN-2002
Q7X9V4	Q7X9V4.PYRPY	244 AA	25336 Da	<i>Pyrus pyrifolia</i>	PsTL	Thaumatin-like protein 1	1	01-NOV-1998
Q9SMH2	TLP1.CASSA	243 AA	25835 Da	<i>Castanea sativa</i>	Tl1	Thaumatin/PR5-like protein	3	01-OCT-2003
Q53MB8	TLP1.ORYSJ	253 AA	25770 Da	<i>Oryza sativa</i>	Os11g0706600	Thaumatin-like protein, LOC_Os11g47944	3	24-MAY-2005
Q9FLD4	Q9FLD4.ARATH	256 AA	28094 Da	<i>Arabidopsis thaliana</i>	At5g40020	At5g40020	2	01-MAR-2001
Q8GTA0	Q8GTA0.BRAOL	250 AA	26920 Da	<i>Brassicica oleracea</i>	CBP1	Thaumatin-like cytochrome-binding protein	2	01-MAR-2003
Q2VAC8	Q2VAC8.FICAW	222 AA	24040 Da	<i>Ficus awkeotsang</i>		Thaumatin-like protein isoform 3	2	10-JAN-2006
Q41350	OLP1.SOLIC	252 AA	27265 Da	<i>Solanum lycopersicum</i>		Osmotin-like protein	1	01-NOV-1997
B6SKP5	B6SKP5.MAIZE	248 AA	26246 Da	<i>Zea mays</i>		Osmotin-like protein	2	16-DEC-2008
B5G511	B5G511.GOSBA	244 AA	25450 Da	<i>Gossypium barbadense</i>		TLP1	2	14-OCT-2008
Q9SNY0	Q9SNY0.VITVI	243 AA	25036 Da	<i>Vitis vinifera</i>		SCUTL2	2	01-MAY-2000
P28493	PF5.ARATH	239 AA	25252 Da	<i>Arabidopsis thaliana</i>	Atlg75040	Pathogenesis-related protein 5	1	01-DEC-1992
Q9C9P9	Q9C9P9.ARATH	246 AA	25443 Da	<i>Arabidopsis thaliana</i>	Atlg75030	Pathogenesis-related protein 5	2	01-JUN-2001
O24468	O24468.ARATH	245 AA	25371 Da	<i>Arabidopsis thaliana</i>	Atlg75030	Thaumatin-like protein	2	01-JAN-1998
Q1PFD2	Q1PFD2.ARATH	246 AA	25439 Da	<i>Arabidopsis thaliana</i>	Atlg75050	Thaumatin-like/pathogenesis-like protein	2	16-MAY-2006
Q9LN66	Q9LN66.ARATH	247 AA	25431 Da	<i>Arabidopsis thaliana</i>	Atlg19320	Atlg19320	2	01-OCT-2000
Q5DWG1	Q5DWG1.CRYJA	240 AA	24653 Da	<i>Cryptomeria japonica</i>	Cry j 3.5	Thaumatin-like protein	2	29-MAR-2005
A81XE7	A81XE7.BRACM	245 AA	26186 Da	<i>Brassica campestris</i>		Thaumatin-like protein	2	04-DEC-2007
O8LE09	O8LE09.ARATH	244 AA	25986 Da	<i>Arabidopsis thaliana</i>	Atlg73620	Thaumatin-like protein F25p22.3	2	01-OCT-2002
O49965	O49965.BRACM	243 AA	26110 Da	<i>Brassica campestris</i>	BFTP	Pathogenesis-related group 5 protein	2	01-JUN-1998
P50699	TLP4.ARATH	243 AA	25907 Da	<i>Arabidopsis thaliana</i>	Atlg18250	Thaumatin-like protein	2	10-JAN-2003

Table 4: Sequences selected for the final dataset of PR05

Accession	Entry name	Length	Weight	Species	Gene name	Protein name	PE	Date
Q9L0T4	Q9L0T4.ARATH	330 AA	34884 Da	<i>Arabidopsis thaliana</i>	Atlg75800	Atlg75800/T4012.2	2	01-OCT-2000
A8IXG8	A8IXG8.BRACM	321 AA	33818 Da	<i>Brassica campestris</i>	Atlg75800	Pathogenesis-related thaumatin family protein	2	04-DEC-2007
B9DGE1	B9DGE1.ARATH	316 AA	33525 Da	<i>Arabidopsis thaliana</i>	At1G20030	At1G20030 protein	2	24-MAR-2009
O65638	O65638.ARATH	301 AA	30906 Da	<i>Arabidopsis thaliana</i>	T19K4.140	Thaumatococcus-like protein	2	01-AUG-1998
B6TEB6	B6TEB6.MAIZE	335 AA	33696 Da	<i>Zea mays</i>	Os03g0243900	Thaumatococcus-like protein 1	2	16-DEC-2008
Q10P77	Q10P77.ORYSJ	336 AA	33964 Da	<i>Oryza sativa</i>	At4g24180	Thaumatococcus-like protein	2	22-AUG-2006
Q9STX6	Q9STX6.ARATH	255 AA	26917 Da	<i>Arabidopsis thaliana</i>	PR5K	Receptor serine/threonine kinase PR5K	2	01-MAY-2000
B3LFC8	B3LFC8.ARATH	420 AA	44748 Da	<i>Arabidopsis thaliana</i>	Os07g0419300	Receptor serine/threonine kinase PR5K	2	02-SEP-2008
Q38925	Q38925.ARATH	665 AA	73960 Da	<i>Arabidopsis thaliana</i>	Os07g0419300	Receptor serine/threonine kinase PR5K	2	01-NOV-1996
Q7F267	Q7F267.ORYSJ	276 AA	28195 Da	<i>Oryza sativa</i>	Os07g0419300	Receptor serine/threonine kinase PR5K	2	05-JUL-2004