

	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
conservation	*****	*****		*****	*****	*****	*****	*****	*****	*****	*****		*****	*****			
SCPP1`CI	ATGAA	A	CCTGT	CAT	CC	TGATTCTCTGTCTGCTGGGAGCAGCCT	A	TGCTAATCCAATCTTGCATAAAATGGCTATGGAGAT									80
SCPP1`AM																	0
SCPP1`DR	ATGAA	AGT	CTGCC	CTAT	TGATTCTTTGTCTGT	TGGGAGCAGCCT	G	TGCTAATCCAATCTTGCATAAAAGTGGCTATGGAGAT									80
SCPP1`IP	ATGAA	AG	CTGGCTTT	CG	TGATTCTCTGCCTGCTCGGAGCTGCCGG	TGCAAATCCAATTTTGCAC	.....	ACGGATAT									71
SCPP1`LW	ATGAA	A	CCTGCCAT	ACT	TGATTCTATGTCTGCTGGGAACAGCCT	ATGCTAATCCAATCTTGCATAAAATGGCTATGGAGAT											80
SCPP1`PN	ATGAA	AGTTT	TGCCAT	TG	TAATTCTCTGCCTGCTGGGAACAACCAG	TGCTAATCCCATCTTATACAAAGTGACCACTGAGAT											80
SCPP1`PP	ATGAA	A	CCTGCCAT	ACT	TGATTCTATGTCTGCTGGGAGCAGCCT	ACGCTAATCCAATCTTGCATAAAATGGCTATGGAGAT											80
SCPP1-C1`CC	ATGAA	A	CCTGCCAT	GT	TGATTCTCTGTCTGCTGGGAGCAGCCT	ATGCTAATCCAATCTTGCATAAAATGGCTATGGAGAT											80
SCPP1-C2`CC	ATGAA	A	CATGCCAT	AT	TGATTCTCTGTCTGCTGGGAGCAGCCT	ATGCTAATCCAATCTTGCATAAAACGGCTATGGAGAT											80
SCPP1-C1`SR																	0
SCPP1-C2`SR	ATGAA	A	CCTGCCAT	AT	TGATTCTCTGTCTGCTGGGAGCAGCCT	ATGCTAATCCAATCTTGCATAAAAAAGACTATGGAGAT											80
SCPP1-C1`SA	ATGA	A	CCCTGCCAT	AT	TGATTCTCTGTCTGCTGGGAGCAGCCT	ATGCTAATCCAATCTTGCATAAAAAAGCTATGGAGGT											80
SCPP1-C2`SA	ATGAA	A	CCCTGCCAT	ACT	TGATTCTCTGTCTGCTGGGAGCAGCCT	ATGCTAATCCAATCTTGCATAAAAAAGACTATGGAGAT											80
SCPP1-C1`SG	ATGAA	A	CCTGCCAT	AT	TGATTCTCTGTCTGCTGGGAGCAGCCT	ATGCTAATCCAATCTTGCATAAAAAAGCTATGGAGGT											80
SCPP1-C2`SG	ATGAA	A	CCTGCCAT	AT	TGATTCTCTGTCTGCTGGGAGCAGCCT	G	TGCTAATCCAATCTTGCATAAAAAAGACTATGGAGAT										80

	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
SCPP1`CI	GATTCAACATGCATCCA	ACTCTT	CAGAAAGCTCTTCAAT	A	TCTGAATCCTC	C	GACCAGAGTAACACCTCAGA	ACCTTCAG									160
SCPP1`AM																	0
SCPP1`DR	GATTCAACATGCATCT	AACTCTTCG	AAAAGCTCCTCAAT	A	TCTGAATCCTC	AGACCAGAGTAATACCTCAGA	ACCTTCGG										160
SCPP1`IP	GATGG	AGACCGCATCG	AACTCTTCAGAGCCTCCTCGAT	G	TCTGCATCTACTGAAGAA	.....	ACCGTTGCCATAGACC										145
SCPP1`LW	GATTCAACATGCATCCA	ACTCTTCG	AAAAGCTCTTCAAT	A	TCTGAATCCTC	CGACCAGAGTAATACCTCAGA	ACCTTCAG										160
SCPP1`PN	GATGGAACATGCATCCA	ACTCT	.....	ACCTCATCAGT	G	TCTGAATCCTC	TGAAGAAAGCGATACATCAGAA	.....	C								148
SCPP1`PP	GATTCAACATGCATCCA	ACTCTTCG	AAAAGCTCTTCAAT	A	TCTGAATCCTC	CGACCAGAGTAATACCTCAGA	ACCTTCAG										160
SCPP1-C1`CC	GATTCAACATGCATCCA	ACTCTTCG	GAGAGCTCTTCAAT	A	TCTGAATCCTC	TGACCAGAGTAATACCTCAGA	ACCTTCAG										160
SCPP1-C2`CC	TATTCAACATGCATCCA	ACTCTTCG	AAAAGCTCTTCGAT	G	TCTGAATCTTC	CGACCAGAGTAATACCTCAGA	ACCTTCAG										160
SCPP1-C1`SR																	22
SCPP1-C2`SR	GATTCAACATGCATCCA	ACTCTTCG	AAAAGCTCTTCAAT	G	TCTGAATCCTC	CGACCAGAGTAATACCTCAGA	ACCTTCAG										160
SCPP1-C1`SA	GATTCAACATGCATCCA	ACTCTTCG	AAAAGCTCTTCAAT	A	TCTGAATCCTC	CGACCAGAGTAATATCTCAGA	ACCTTCAG										160
SCPP1-C2`SA	GATTCAACATGCATCCA	ACTCTTCG	AAAAGCTCTTCAAT	G	TCTGAATCCTC	CGACCAGAGTAATACCTCAGA	ACCTTCAG										160
SCPP1-C1`SG	GATTCAACATGCATCCA	ACTCTTCG	AAAAGCTCTTCAAT	A	TCTGAATCCTC	CGACCAGAGTAATACCTCAGA	ACCTTCAG										160
SCPP1-C2`SG	GATTCAACATGCATCCA	AGCTCTTCG	AAAAGCTCTTCAAT	G	TCTGAATCCTC	CGACCAGAGTAATACCTCAGA	ACCTTCAG										160

	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	
conservation	*	*****	*	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*	
SCPP1`CI	AAGAGAAGT	CC	AAGGAAAA	ATG	CCTC	CGACAGCAGTAG	C	TCAGAATCGCTTGAATCTGACTCAGATGA	ACCGGATCTCT	...						237
SCPP1`AM																0
SCPP1`DR	AAGAGAAGT	CAG	AGGAAAA	TGTT	TCCGACAGCAATAG	CTCTGAATCACTTGAATCTGAATCAGATGA	ACCGGATATCT	AAAA								240
SCPP1`IP	AAGATAG	CTCTCAGG	AAAAATACTT	CAGAGGACACC	ACCTCAGAATCCATGGAATCGAATT	CATCTGAGAAGACCTTGGAA										225
SCPP1`LW	AAGAGAAGT	CC	AAGGAAAA	TGT	CTCAGACAGCAATAG	CTCAGAATCGCTTGAATCTGACTCGGATGA	AAACGATCTCT	AAAA								240
SCPP1`PN	ACAAC	AGCTC	ACCGGAAAA	TACT	TCTGAGAA	CAATACGTCAGAATCGCTG	GAGTCTGCATCCGATGATCAG	ACTTCAGAC								228
SCPP1`PP	AAGAGGTAAGC															171
SCPP1-C1`CC	ATGAGAAAT	CTAAGG	AAAC	TGTCTCCGACAGCAGCAG	CTCAGAATCAACTGAATCAGACTCTAATGA	ACCGGATCTCA	...									237
SCPP1-C2`CC	AAGAGAAGT	CTACGG	AAAC	TGTCTCTGACAGCAATAG	TTTCAGAATCAATGAATCGGCTCAAATGA	ACCGGATTTCT	...									237
SCPP1-C1`SR	AGACT	TAAGTCTAAGG	AAAC	TGTCTCCGACAGCAATAG	CTCAGAATCAACTGAATCAGACTCTAATGA	ACCGGATCTCT	...									99
SCPP1-C2`SR	AAGGAA	ACTCTAAGG	AAAC	TGTCTCCGACAGCAATAG	TTTCAGAATCAATGAATCGGACTCAAATGA	ACCGGATTTCA	...									237
SCPP1-C1`SA	ATGAGAAGT	CTAAGG	AAAC	TGTCTCCGACAGCAATAG	TCAGAATCAACTGAATCAGACTCTAATGA	ACCGGATCTCT	...									237
SCPP1-C2`SA	AAGAGAAGT	CTAAGG	AAAC	TGTCTCCGACAGCAATAG	TTTCAGAATCAATGAATATGACTCAAATGA	ACCGGATTTCA	...									237
SCPP1-C1`SG	ATGAGAAGT	CTAAGG	AAAC	TGTCTCCGACAGCAATAG	CTCAGAATCAACTGAATCAGACTCTAATGA	ACCGGATCTCT	...									237
SCPP1-C2`SG	AAGAGAAGT	CTAAGG	AAAC	TGTCTCAGAGAGCAGTAG	TTTCAGAATCAATGAATCAGACTCAAATGA	ACCGGATTTCA	...									237

	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	
conservation	**	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
SCPP1`CI	...	AGC	GAAAGCCATTCTGTG	GAAAGACTGATTGG	AAAAAGCGACACTTCACTGACATCAGATA	AACACTCAAAGCAGTAA										314
SCPP1`AM																71
SCPP1`DR																
SCPP1`IP	GAG	AGT	GAAAGCCATTCTGTG	GAAAGTCTGATTGG	AAAAAGCGAGACCGCACTGACAGCCGACAACACTCAAAGCAGTAA											320
SCPP1`LW	ACA	AGCCAAAGCAACT	CGCTGGAAGAA	CGGTTTGGCAATGG	AGAGGCTGGAATGACCGT	CGATAACAGCCAAAGGAAGCAC										305
SCPP1`PN	GAG	AGCGAAAGCCATTCTGTG	GAAAAATTTGATTGG	AAAAAGCGAGGCTGCACTGACATCGGATA	AACACTCAAAGCAGTAA											320
SCPP1`PP	ATG	AGCCGG	AGTCACTCCCTGGAAG	CTCGGTTTGGCACAGG	TGAGACAGGAATGACCACAGATGACAGCC	AAGGCAGCCT										308
SCPP1-C1`CC																171
SCPP1-C2`CC	...	AGT	GAAAGCCATTCTGTG	GAAAGTCTGATTGG	AAAAAGTGAGACTGCACTGACATCAGATA	AACACTCAAAGCAGTAA										314
SCPP1-C1`SR	...	AGT	GAAAGCCATTCTAGTGG	AAAGTCTGTCTGG	AAAAAGCGAGACTGCACTGACATCAGACA	AACACTCAAAGCAGTAA										314
SCPP1-C2`SR	...	AGT	GAAAGCCATTCTGTG	GAAAGTCTGACTGG	AAAAAGCGAGACTGCACTGACATCAGATA	AACACTCAAAGCAGTAA										176
SCPP1-C1`SA	...	AGT	GAAAGCCATTCTGTG	GAAAGTCTGATTGG	AAAAAGTGAGACTGCACTGACATCAGATA	AACACTCAAAGCAGTAA										314
SCPP1-C2`SA	...	AGT	GAAAGCCATTCTGT	CGAAAGTCTGACTGG	AAAAAGCGAGACTGCACTGACATCAGATA	AACACTCAAAGCAGTAA										314
SCPP1-C1`SG	...	AGT	GAAAGCCATTCTGTG	GAAAGTCTGATTGG	AAAAAGTGAGACTGCACTTACATCAGATA	AACACTCAAAGCAGTAA										314
SCPP1-C2`SG	...	AGT	GAAAGCCATTCTGTG	GAAAGTCTGACTGG	AAAAAGCGAGACTGCACTGACATCAGATA	AACACTCAAAGCAGTAA										314

	315	320	325	330	335	340	345	350		355	360	365	370	375	380	
conservation	*****	*	*	*****	*****	*****	*****	*****		*****	*****	*	*****	*	*	*****
SCPP1`CI	AGAGAAC	CGTT	CGTAGGGGCTGGAT	C	TACACCCTCAAA	.....				TGGGTCCATATGAACAATGGTGG	C	AAAGTGC				382
SCPP1`AM	GGAGAAC	ATGCG	CAAGAACTGGGTT	CATCTCAT	CAAC	.....				GTCAAAATGGCCAGTAAAGAGG	ACACGGAGG					139
SCPP1`DR	AGAGAAC	AT	CGTAGGGGCTGGAT	C	TACACCCTCAAA	.....				TGGGTCCCAACCAACAACAAC	...	ATTGTGC				385
SCPP1`IP	AGAGAT	CA	TGCGCAAGAGCCAGAG	AAAAA	ACTCCAAG	.....				AGCATCAGCAGCAGTAGTGAGAGCAGTG						370
SCPP1`LW	AGAGAAT	GT	CGTAGGGGCTGGAT	C	TACACCCTCAAA	.....				TGGGTCCATACGAATAACAGCGG	C	AAAGTGC				388
SCPP1`PN	GGAGAAC	AT	GCGCAAGCT	CCACCCAT	T	CATACTGAGGTTCTAATGAAG	C	TGGATT	CATCTCATCAAC	CGTCAAAGTGTCTCA						388
SCPP1`PP																171
SCPP1-C1`CC	CGAGAAC	CGTT	CGTAAGGGGCTGGAT	C	TACACCCTCAAA	.....				TGGGTTTCATAAGAACAACAATGCC	ATTGTGC					382
SCPP1-C2`CC	AGAGAAT	GT	CGTAGGGGCTGGAT	C	TACACCCTCAAA	.....				TGGGTCCATATTAACAACAACGG	C	AAAGTGC				382
SCPP1-C1`SR	AGAGAAC	CGTT	CGTAGGGGCTGGAT	T	TACACCCTCAAA	.....				TGGGTCCATAGAACAACAATTC	CATTGTGC					244
SCPP1-C2`SR	AGAGAAT	GT	CGTAGGGGCTGGAT	C	TACACCCTCAAA	.....				TGGGTCCATATTAACAACAACGG	C	AAAGTGC				382
SCPP1-C1`SA	AGAGAAC	CGTT	CGTAGGGGCTGGAT	T	TACACCCTCAAA	.....				TGGGTCCATAAGAACAACAATGC	CATTGTGC					382
SCPP1-C2`SA	AGAGAAT	GT	CGTAGGGGCTGGAT	C	TACACCCTCAAA	.....				TGGGTCCATATTAACAACAACGG	C	AAAGTGC				382
SCPP1-C1`SG	AGAGAAC	CGTT	CGTAGGGGCTGGAT	T	TACACCCTCAAA	.....				TGGGTCCATAAGAACAACAATGCC	ATTGTGC					382
SCPP1-C2`SG	AGAGAAT	GT	CGTAGGGGCTGGAT	C	TACACCCTCAAA	.....				TGGGTCCATATTAACAACAACGG	C	AAAGTGC				382

	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	
conservation	*****	*****	*****	*****	*****	*****	*	*****	**	*	*	*	**	*****	*****	*	
SCPP1'C1	AAGCGACCAGCCAGCCAGACGAGAATTACATCAAA	TCCACCAGTGATGCATCAA	AAAAAAGT	GAAAGCAGTGAATC	GAGT												462
SCPP1'AM	AAGTGACCAGCCAACAGACGAGGAGGACAAGA	CACGACAGAGGAC	.....	CAGACTCCGAGAGC	AGC												204
SCPP1'DR	AACCAACCGGCCAGCCCATGAAATGACATCCAG	TCCACTAGTGACGCATCCC	AAATAAGT	GAGAGCAGCAATCAAGC													465
SCPP1'IP	AGTCTACTGAGGGTCAAGGCAACAATTCAACA	AGCAGCAGCAGCAGCGAGAGCAGTGAAGCAGC	GAAAGCAGTGAGAGCAGC														450
SCPP1'LW	AAGCGACCAGCCAGCCGGAC	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	438
SCPP1'PN	GCGAGGAGGACA	AAGACACGACAGAGGACCTCTCC	TCTAAC	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	444
SCPP1'PP	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	171
SCPP1-C1'CC	AAGCGACCAGCCAGCCAGACGAGAATGACATCAAA	TCCACTAGTGACGCATCAA	AAAAAAGT	GAAAGCAGTGTTTCAAGT													462
SCPP1-C2'CC	AAGCGACCAGCCAGCCAGATGAGAATGACATCAAG	TCCACTAGTGATGCGTCAA	AAAAAAGT	GAAAGCAGTGAATCAAGT													462
SCPP1-C1'SR	AAGCGACCAGCCAGCCAGAAAGAGAATGACATAAA	TCCACTAGTGACGAATCAA	AAAAAAGT	GAAAGCAGTGAATCAAGT													324
SCPP1-C2'SR	AAGCGACCAGCCAGCCAGAAAGAGAATGACATCAA	TCCACTAGTGACGCGTCAA	AAAAAAGT	GAAAGCAGTGAATCAAGT													462
SCPP1-C1'SA	AAGCGACCAGCCAGCCAGAAAGAGAATGACATCAA	TCCACTAGTGACGAATCAA	AAAAAAGT	GAAAGCAGTGAATCAAGT													462
SCPP1-C2'SA	AAGCGACCAGCCAGCCAGAAAGAGAATGACATCAA	TCCACTAGTGACGCATCAA	AAAAA	.....	AGCAGTGAATCAAGT												456
SCPP1-C1'SG	AAGCGACCAAGCCAGCCAGAAAGAGAATGACATCAA	TCCACTAGT	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	444
SCPP1-C2'SG	AAGTGACCAGCCAGCCAGAAAGAGAATGAC	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	411

conservation

	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	
SCPP1'C1	GAAAGCC	CAGGAAA	CGTTGTTCT	GAA	CACAAAG	GAA	GAGGATAACAGT	GCC	GACAC	GAGT	GAAAGCACT	GAA	CACAGT	..			540
SCPP1'AM	GAGTCC	CACGGAG	AGCCCACCC	CCG	CAGCAG	CAGCAGCAGC	AGCAGC	GACAGC	AGT	.....	AGGGCGGT						269
SCPP1'DR	GAAAGCC	CAGGAAA	AGTTTGT	CGT	GAA	CAAGAT	GCAAGT	GGATAACAGT	GAC	GACAC	AGT	GAAAGCG	GCT	GAA	CAAA	TGG	545
SCPP1'IP	GAGTCC	ACTGAAA	ACCCGG	GAGAAG	AACT	CAA	CAGCAGCAGC	AACAG	CAGCAGT	GAG	AGCAA	AGCGT	CAG	AACAG	ATC		530
SCPP1'LW	GAAAGCC	CAGGAAA	CAGTTGTTCT	GAG	CACAAAG	GAAG	AGATAACGGT	GCC	GACACA	AGT	GAAAGC	.....					504
SCPP1'PN	GAGAGTC	AGGAGCA	GCAAACCC	CAC	AG	CAGCAG	CAGCAGCAGC	AGCAG	CACACA	GAGTCC	AGC	..	AGCAA	AG	AGCAG	GGC	521
SCPP1'PP																	171
SCPP1-C1'CC	GAAAGCC	CAGGAAA	TGGCTGTTCT	AAA	CACAAAG	CAAG	GAGGATAACAGT	TGG	GACACA	AGT	GAAAGCACT	GAAAA	CAGTTA				542
SCPP1-C2'CC	GAAAGCA	AAGGAAA	CAGTTGTTCT	GAA	CACCAAG	GAG	GAGGATAACAGT	GCC	GATACA	AGT	GAAAGCACT	GAAAA	CAGTTA				542
SCPP1-C1'SR	GAAAGCC	CAGGAAA	TGGTTGTTCT	AAG	CACAAAG	GAAG	GAGGATAAGAGT	GCG	GACATA	AGT	GAAAGCACT	GAAAA	CAGTTA				404
SCPP1-C2'SR	GAAAGCA	AAGGAAA	TGGTTGTTCT	GAA	CACAAAA	AGG	GAGGATAACAGT	GCC	GACACA	AGT	GAAAGCACT	GAAAA	CAGTTA				542
SCPP1-C1'SA	GAAAGCC	CAGGAAA	TGGTTGTTCT	AAG	CACAAAG	GAAG	GAGGATAAGAGT	TGG	GACACA	AGT	GAAAGCACT	GAAAA	CAGTTA				542
SCPP1-C2'SA	GAAAGCA	AAGGAAA	TGGTTGTTCT	GAA	CACAAAG	GAG	GAGGATAACAGT	GCG	GACACA	AGT	GAAAGCACT	GAAAA	CAGTTA				536
SCPP1-C1'SG	GAAAGCC	AGGAAA	TGGTTGTTCT	AAG	CACAAAG	GAAG	GAGGATAAGAGT	GCG	GACACA	AGT	GAAAGCACT	GAAAA	CAGTTA				524
SCPP1-C2'SG	..	AGCAA	AAGGAAA	TGGTTGTTCT	GAA	CACAAAG	GAGGAGGATAACAGT	GCC	GACACA	AA	TGAAAGCACT	GAAAA	CAGTTA				488

		545	550	555	560	565	570		575	580	585	590	595	600	605	
conservation	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SCPP1'C1	...	GTTGA	AGGTACT	GAGTAT	AA	TAC	GAGCAAC	.....	AGCAGCAGCAGCAGCAGT	AGCAGT	GAAAGCAC	CGAGT				607
SCPP1'AM	GGTG	GTTGAC	AGCTCT	GAGAAC	CCAC	AGCAAC	.....	AGCAGCAGCAGCAGCAGT	AGCAGC	CGAGAGCC	ACCGAGT					337
SCPP1'DR	TGTT	GTT	...	GCTACT	GAAT	CACAGA	AC	AGTAAC	.....	AGCAGCAGCAGCAGT	AGCAGCAGT	GAAAGCAC	CGAGT			613
SCPP1'IP	AACGAT	CGAC	AGCGAT	GAGAA	CAGCG	CCCTGAAA	...	AGCAGC	AACAGCTC	CAGCAGC	GAGAGT	CACGAGTCC	CACTGAGA			607
SCPP1'LW	...	ATTGA	AGGTACT	GAGTAT	AGTAC	GAGCAAC	...	AGCAGC	AGCAGCAGCAGCAGCAGC	AGCAGC	GAAAGCACT	GAGT				577
SCPP1'PN	TGTG	GTTGAC	AGCAAC	GAGACC	CAGT	GAGAGCA	GAAGCAGCAAC	AGCAGT	AGCAGCAAC	AGAG	AGCCGAGAGTCC	CAGCCACA				601
SCPP1'PP																171
SCPP1-C1'CC	TATT	GTTGAC	CGGA	ACTGAGT	ACAGTAC	CAGCAA	CAGCAGCAGC	AGCAGCAGCAGCAGCAGT	AGCAGT	GAAAGCAC	AGAGT					622
SCPP1-C2'CC	TAGT	GTTGAT	TGGTACT	GAGTAC	AGTACT	AGCAA	CAGCAGCAGC	AGCAGCAGCAGT	AGCAGC	AGCAGT	GAAAGCAC	CGAGT				622
SCPP1-C1'SR	TATT	GTTGAC	GGTACT	GAGTAC	AGTACT	AGCAAT	.....	AGCAGCAGCAGCAGCAGT	AGCAGC	AGCAGT	GAAAGCAC	CGAGT				478
SCPP1-C2'SR	TAGT	GTTGAC	GGTACT	GAGTAC	AGTACT	AGCAAT	.....	AGCAGCAGCAGCAGCAGT	AGCAGC	AGCAGT	GAAAGCACT	GAGT				613
SCPP1-C1'SA	TATT	GTTGAC	GGTACT	GAGTAC	AGTACT	AGCAAT	.....	AGCAGCAGCAGCAGCAGT	AGCAGC	AGCAGT	GAAAGCAC	CGAGT				613
SCPP1-C2'SA	TAGT	GTTGAC	GGTACT	GAGTAC	AGTACT	AGCAAT	.....	AGCAGCAGCAGCAGCAGT	AGCAGC	AGCAGT	GAAAGCACT	GAGT				610
SCPP1-C1'SG	TATT	GTTGAC	GGTACT	GAGTAC	AGTACT	AGCAAT	.....	AGCAGCAGCAGCAGCAGT	AGCAGC	AGCAGT	GAAAGCAC	CGAGT				595
SCPP1-C2'SG	TAGT	GTTGAC	GGTACT	GAGTAC	AGTACT	AGCAAT	.....	AGCAGCAGCAGCAGCAGT	AGCAGC	AGCAGT	GAAAGCAC	CGAGT				559

	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	
<i>conservation</i>	****	****	****	*****	****	****	****	*****	****	****	****	****	****	****	****	****	
<i>SCPP1'C1</i>	CCAAAAACAG	CGCAGT	TGGAT	TAGC	GAAAGT	CGCTCA	ACTG	AGTGCC	TTCC	CGGGGCT	GACAGC	CAAGAAT	TGTG	CACGCG	CAG		687
<i>SCPP1'AM</i>	CCAGCCACAG	CACAGAG	CACAGAG	CAGCAG	GAGAG	CAGTGC	CAAGAG	TGCC	CGCC	CGGAAC	CAGACAG	CAACAG	TGCG	CAGCG	CAC		417
<i>SCPP1'DR</i>	CTAAAGACAG	CGGCAG	TAGT	GAAAGT	CGCTCC	ACTG	AGTGTG	TGCT	CGCT	GGCGAT	GACAGT	CAAGAT	TGTG	CAGCG	CAG		693
<i>SCPP1'IP</i>	CCACCGAGAG	CACCG	GAAAG	CAAAC	AGAGT	CGCTCT	AACG	AGTGCC	AGCCT	TGGAGC	CAGAGC	CAGGACT	TGC	CAGCG	CAC		687
<i>SCPP1'LW</i>	CCAAAAAGC	AGTGC	GATGG	AGAGC	GAAAGT	CGCTCA	ACTG	AGTGCC	TTCC	CGGGGCT	GACAGC	CAAGAAT	TGTG	CACGCG	CAG		657
<i>SCPP1'PN</i>	GCACAGAG	AGCAGG	GAAAG	CACAG	AGAGC	CGCTCG	AAAG	AGTGCC	CTCT	GAGGCC	GACAGC	GATG	AGTGC	CAGCG	CAT		681
<i>SCPP1'PP</i>	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		171
<i>SCPP1-C1'CC</i>	CCAAAAACAGT	GCAGT	TGGAC	AGCG	GAAAGT	CGCTT	AAGT	AGTGCC	AGCC	AGGGGCT	GACAGC	CAAGAAT	TGTG	CACGCG	CAG		702
<i>SCPP1-C2'CC</i>	CCAAAAACAAC	GCAGT	TGGAC	AGT	GAAAGT	CGCTC	AGCT	AGTGCC	AGCC	AGGGGCT	AACAGC	CAAGAAT	TGTG	CACGCG	CAG		702
<i>SCPP1-C1'SR</i>	CCAAAAACAGT	GCAGT	TGGAC	AGCG	GAAAGT	CGCTCA	ACTG	AGTGCC	AGCC	AGGGGCT	GACAGC	CAAGAAT	TGTG	CACGCG	CAG		558
<i>SCPP1-C2'SR</i>	CCAAAAACAGT	GCAGT	TGGAC	AGCG	GAAAGC	CGCTC	AGCT	AGTGCC	AGTC	AGGGGCT	GACAGC	CAAGAAT	TGTG	CACGCG	CAG		693
<i>SCPP1-C1'SA</i>	CCAAAGACAG	CGCAGT	TGGAC	AGT	GAAAGT	CGCTCA	ATTG	AGTGCC	AGCC	AGGGGCT	GACAGC	CAAGAAT	TGTG	CACGCG	CAG		693
<i>SCPP1-C2'SA</i>	CCAAAAACAGT	GCAGC	AGACAG	C	GAAAGC	CGCTC	AGCT	AGTGCC	AGCC	AGAGGCT	GACAGC	CAAGAAT	TGTG	CACGCG	CAG		690
<i>SCPP1-C1'SG</i>	CCAAACACAG	CGCAGT	TGGAC	AGCG	GAAAGT	CGCTCA	ACTG	AGTGCC	AGCC	AGGGGCT	GACAGC	CAAGAAT	TGTG	CACGCG	CAG		675
<i>SCPP1-C2'SG</i>	CCAAAAACAGT	GCACCG	ACAG	C	GAAAGC	CGCTC	AGCT	AGTGCC	AGCC	AGAGGCT	GACAGC	CAAGAAT	TGTG	CACGCG	CAG		639

	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
SCPP1'C1	GAAGAC	.....	TTTCCTCAGGATAT	CGGTGATGATGGT	GCAACCGACCC	ATTCAATGGCT	TCCTAATGCCTGATGTCAC		761						
SCPP1'AM	GAATAC	.....	CAGTTCACGATCGG	AGACGATGGAGCC	ACTGACCC	CTTCAACGGCT	TCCACACGACCGACAACGC		491						
SCPP1'DR	GAATAAC	.....	CTTCCTCAGGATAT	CGGTGATGATGG	AGCAACCGACCC	TTTCAATGGCT	TCTTAATGCCTGATGTGCG		767						
SCPP1'IP	AGCGAC	GAGTACG	TCTTCAGAAC	GTTCGGAGACG	ACGGAACCAACGACCC	ATTGACGGCT	TCCACGTGCCTGACAGCAC		767							
SCPP1'LW	GAAGCC	.....	TTTCCTCAGGATAT	CGGTGATGATGGT	GCAACCGACCC	TTTCAATGGCT	TCCTAATGCCTGATGTCAC		731						
SCPP1'PN	GAATAC	.....	GACTTCACGAC	ATCGGAGACG	ATGGAGCCAGTGA	ACCGCTGAACGGCT	TCCGTACGCCGAT	.....	750					
SCPP1'PP	171
SCPP1-C1'CC	GAAGAC	.....	TTTCCTCAGGATAT	CGGTGATGATGGT	GCAACCGACCC	TTTCAATGGCT	TCCTAATGCCTGATGTCAC		776						
SCPP1-C2'CC	GAAGAC	.....	TTTCCTCAGGATAT	CGGTGATGATGGT	GAAACCGACCC	TTTCAATGGCT	TCCTAATGCCTGATGTCAC		776						
SCPP1-C1'SR	GAAGAC	.....	TTTCCTCAGGATAT	CGGTGATGATGGT	GCAACCGACCC	TTTCAATGGCT	TCCTAATGCCTGATGTCAC		632						
SCPP1-C2'SR	GAAGAC	.....	TTTCCTCAGGATAT	CGGTGATGATGGT	GCAACCGACCC	TTTCAATGGCT	TCCTAATGCCTGATGTCAC		767						
SCPP1-C1'SA	GAAGAC	.....	TTTCCTCAGGATAT	CGGTGATGATGGT	GCAACCGACCC	TTTCAATGGCT	TCCTAATGCCTGATGTCAC		767						
SCPP1-C2'SA	GAAGAC	.....	TTTCCTCAGGATAT	CGGTGATGATGGT	GCAACCGACCC	TTTCAATGGCT	TCCTAATGCCTGATGTCAC		764						
SCPP1-C1'SG	GAAGAC	.....	TTTCCTCAGGATAT	CGGTGATGATGGT	GCAACCGACCC	TTTCAATGGCT	TCCTAATGCCTGATGTCAC		749						
SCPP1-C2'SG	GAAGAC	.....	TTTCCTCAGGATAT	CGGTGATGATGGT	GCAACCGACCC	TTTCAATGGCT	TCCTAATGCCTGATGTCAC		713						

	765	770
conservation	*****	
SCPP1`CI	TGAGCCCTAG	771
SCPP1`AM	C.....	492
SCPP1`DR	TGAGCCCTAG	777
SCPP1`IP	CGAG.....	771
SCPP1`LW	TGAGCCCTAG	741
SCPP1`PN	.....	750
SCPP1`PP	.....	171
SCPP1-C1`CC	TGAGCCCTAG	786
SCPP1-C2`CC	TGAGCCCTAG	786
SCPP1-C1`SR	TGAGCCCTAG	642
SCPP1-C2`SR	TGAGCCCTAG	777
SCPP1-C1`SA	TGAGCCCTAG	777
SCPP1-C2`SA	TGAGCCCTAG	774
SCPP1-C1`SG	TGAGCCCTAG	759
SCPP1-C2`SG	TGAGCCCTAG	723

- ␣ non conserved
- X ≥ 55% conserved
- X ≥ 85% conserved