

	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
SPP1`AM	ATGAAGG	CCGCC	ATTGTTTT	CGTGCTCCTCT	TTGCCAT	AGTCT	ACTGTCGT	CCTCT	GAAAGCGTTC	AGTGAGCAGCTCAGA							80
SPP1`CI	ATGAAGACT	CTTTAT	CGTTTTTA	ACGCTCCTCG	TTGCCACAGTCTTTCTG	CCTAC	CTGTCAAGCGCTCAGCT	AGCAGTTCAGA									80
SPP1`DR	ATGAAAT	CTATT	ATTGTTTT	TAACACTCCTCG	TGCGCCACAGTCTTTCTGTG	TAC	CTGTGAAAGCGCTCAGCA	AAGCAGTTCAGA									80
SPP1`IP	ATGAAGG	CTGTCA	TTGTTTT	CGTGCTCCTTT	TCGCAGCGGTCTATTGT	CAC	CCTGTGAAACGTT	CAGCCAGCAGCTCAGA									80
SPP1`LW	ATGAAGACC	GTTAT	CGTTTTTA	ACCCTCCTCAT	CGCCACAGTCTTTCTG	CCTG	CCTGTCAAGCGCTCAGCC	CAGCAGTTCAGA									80
SPP1`PN	ATGAAGGCC	GTCAT	GATTTT	CGGGCTCCTCT	TCGCTGT	AGTCTACTG	CCGTCTGT	AAAAACGCTCAGCA	AAGCAGCTCAGA								80
SPP1`PP	ATGAAGACT	GTTAT	CGTTTTTA	ACGCTTCTC	ATCGCCACAGTCTTTCTG	CCTAC	CCTGTCAAGCGCTCAGCC	CAGCAGTTCAGA									80
SPP1-C1`CC	ATGAAGACT	GTCAT	CGTTTTTA	ACGCTCCTCAT	CGCCACAGTCTTTCTGT	TCTAC	CTGTGAAAGCGCTCAGCT	AGCAGTTCAGA									80
SPP1-C2`CC	ATGAAGACT	GTTT	TCGTTTTTA	ACGCTCCTCAT	CGCCACAGTCTTTCTGT	TCTAC	CTGTGAAAGCGCTCAGCT	AGCAGTTCAGA									80
SPP1-C1`SG	ATGAAGACT	GTCAT	CGTTTTTA	ACGCTCCTCAT	CGCCACAGT	TTTTCTGT	TCTAC	CTGTGAAAGCGCTCAGCT	AGCAGTTCAGA								80
SPP1-C2`SG	ATGAAGACT	GTTAT	CGTTTTTA	ACGCTCCTCAT	CGCCACAGTCTTTCTGT	TCTG	CCTGTGAAAGCGCTCAGCT	AGCAGTTCAGA									80
SPP1-C1`SR	ATGAAGACT	GTCAT	CGTTTTTA	ACGCTCCTCAT	CGCCACAGT	TTTTCTGT	TCTAC	CTGTGAAAGCGCTCAGCT	AGCAGTTCAGA								80
SPP1-C2`SR	.....																0
SPP1-C1`SA	ATGAAGACT	GTCAT	CGTTTTTA	ACGCTCCTCAT	CGCCACAGT	TTTTCTGT	TCTAC	CTGTGAAAGCGCTCAGCT	AGCAGTTCAGA								80
SPP1-C2`SA	ATGAAGACT	GTTAT	TCGTTTTTA	ACACTCCTCAT	CGCCACAGTCTTTCTGT	TCTG	CCTGTGAAAGCGCTCGGCT	AGCAGTTCAGA									80

	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
SPP1`AM	GAGT	TCTGAGGAAC	AAGCCG	CTGCCA	AAACGGGCG	CCCCAA	TTCTG	CGG	AAAGCCCTGC	AAAAGCAGTGC	AGGCA	....				156
SPP1`CI	GAGCTCAGA	AAGAGCTT	GTTGCT	GTGTTCAACG	GCCACCTCCTATTCT	CCG	AAAAGCTGCTGCTA	ATATGTTT	TGAGGCAGA	AAC						160
SPP1`DR	GAGCTCAGA	AAGAGCTT	GTAATT	GTGTTCAACG	GCCACCTCCTATTCT	TCG	AAAAGCTGCTGCCA	ATGTTT	CCAGGTAG	AGC						160
SPP1`IP	GAGT	GCTGACCTG	CAGCCTG	TTGATACT	CAGAGC	.....	ATCAAT	GGA	AAAAAGAATCAC	AGTAGCCATATT	CAAAAGC					154
SPP1`LW	GAGCTCAGA	AAGAAATG	ATTGCT	GTGTTCAACG	GCCACCTCCT	CTTCTA	CA	AAAAGCTGCTGCTG	TGATATGTTT	CCAGGCAGA	AAT					160
SPP1`PN	GAGCTCT	GAGGAACAGG	CAGTTGCCA	AACTGCCACT	CCCCAGTTCT	TGAT	AAAGGCCCTGC	AGATCCACT	AAAGGCAG	CAC						160
SPP1`PP	GAGCTCAGA	AAGAAATG	ATTGCCG	TTCAACG	GCCACCTCCTATTCTA	..	AAAGCTGCTGCTG	ATATGTTT	CCAGGCAGA	AAC						157
SPP1-C1`CC	GAGCTCAGA	AAGAACTT	GTGGTT	GTCTCAACA	ACCACCTCCTATTCTA	CG	AAAAGCTGCTGCTG	TATGTT	CAAGGCAGA	AAC						160
SPP1-C2`CC	GAGCTCAGA	AAGAACTT	GTGACT	GTGTTCAACA	ACCACCTCCTATTCTA	GA	AAAAGCTGCTGCTG	TATGTT	CAAGGCAGA	AAC						160
SPP1-C1`SG	GAGCTCAGA	AAGAACTT	GTGGTT	GTCTCAACA	ACCACCTCCTATTCTA	CG	AAAAGCTGCTGCTG	TATGTT	CAAGGCAGA	AAC						160
SPP1-C2`SG	GAGCTCAGA	AAGAACTT	GTGGTT	GTGTTCAACG	GCCACCTCCTATTCTG	CA	AAAAGCTGCTGCTG	TATGTT	CAAGGCAGA	AAC						160
SPP1-C1`SR	GAGCTCAGA	AAGAACTT	GTGGTT	GTCTCAACG	GCCACCTCCTATTCTA	CG	AAAAGCTGCTGCTG	TATGTT	CAAGGCAGA	AAC						160
SPP1-C2`SR	.....															0
SPP1-C1`SA	GAGCTCAGA	AAGAACTT	GTGGTT	GTCTCAACG	GCCACCTCCTATTCTA	CG	AAAAGCTGCTGCTG	TATGTT	CAAGGCAGA	AAC						160
SPP1-C2`SA	GAGCTCAGA	AAGAACTT	GTGGTT	GTGTTCAACG	GCCACCTCCTATTCTG	CA	AAAAGCTGCTGCTG	..	ATGTTCAAGGCAGA	AAC						157

	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
SPP1`AM	..GT	AGAG	GTTGTA	CCTGCTC	AGGCTGT	TAAAGCAG	CTCCAG	AGCTTC	AGCAGATCC	AGAAGCAGCAGC	CGGAGCA					234
SPP1`CI	CTACAC	AGACCACG	CCAACAG	AATCTA	ATGAAAGCACA	..	GACAGTGC	AGATGACACT	TGAGGAGGCAT	TATGAGGAATCT						237
SPP1`DR	CTACAC	AGACCACG	CCAACAG	AATCGA	ATGAAAGCACA	..	GACAGCGC	AGATGACACT	TGAGGAGGCAGAT	TGAGGAATCT						237
SPP1`IP	CTACCT	AATTTCAAGT	GTTTTATA	AATTACT	ACTCGGCA	..	CATACTGT	ATTGAAAGTCACT	GCGGTTGCTGAT	GTTAGC						231
SPP1`LW	CTACAC	AGACCACA	CCAGCAG	ATTCCA	ATGAAAGCACA	..	GACAGTGA	AGATGACACT	TGAGGAGGCAGAT	TGAGAAATCT						237
SPP1`PN	CTGCAC	AGGACAAA	AACACAG	AATCAG	ACACAGAGGGA	..	GACAGTGC	AGACAGCGCAG	ACGCAAGACACG	CAAGAC						237
SPP1`PP	CTACAC	AGACCAC	ACCAGCAG	ATTCCA	ATGAAAGCACA	..	GACAGTGA	AGATGACACT	TGAGGAGGAAGAT	TGAGGAATCT						234
SPP1-C1`CC	CTACAC	AGTCCACG	CCAGGAG	AATCCA	ATGAAAGCACA	..	GACAGTGC	AGATGACAGT	TGAGGGTGCAGAT	TGAGGAATCT						237
SPP1-C2`CC	CCACAC	AGACCAC	ACCAGTAG	ATTCCA	ATGAAAGCACA	..	GACAGTGC	AGATGACAGT	TGAGGATGCAGAT	TGAGGAATCT						237
SPP1-C1`SG	CTACAC	AGACCACG	CCAGCTGA	ATCCA	ATGAAAGCACA	..	GACAGTGC	AGATGACAGT	TGAGGATGCAGAT	TGAGGAATCT						237
SPP1-C2`SG	CTACAC	AGACCACG	CCAGCTGA	ATCCA	ATGAAAGCACA	..	GACAGTGC	AGATGACAGT	TGAGGATGCAGAT	TGAGGAATCT						237
SPP1-C1`SR	CTACAC	AGACCACG	CCAGCTGA	ATCCA	ATGAAAGCACA	..	GAAAGTGC	AGATGACAGT	TGAGGATGCAGAT	TGAGGAATCT						237
SPP1-C2`SR	.....	CAGACCACG	CCAGCTGA	ATCCA	ATGAAAGCACA	..	GACAGTGC	AGATGACAGT	TGAGGATGCAGAT	TGAGGAATCT						72
SPP1-C1`SA	CTACAC	AGACCACG	CCAGCTGA	ATCCA	ATGAAAGCACA	..	GACAGTGC	AGATGACAGT	TGAGGATGCAGAT	TGAGGAATCT						237
SPP1-C2`SA	CTACAC	AGACCACG	CCAGTAG	AATCCA	ATGAAAGCACA	..	GACAGTGC	AGATGACAGT	TGAGGATGCAGAT	TGAGGAATCT						234

	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
SPP1`AM	TCAT	CGGATGAGG	ACGACTCAGATG	AAGCTGAG	GACTCCAGT	TGAGAGT	GCTGAGT	CTGGAGAA	ACTGAGGCC	ACCACCAC							314
SPP1`CI	GAAACAGAT	TGAGAACA	AAGAGGAGA	ACGACACTGAT	TCCAGTGAAAGT	..	GAATCTGG	GAGAACTGAG	ACCACCGCAGT								314
SPP1`DR	GAAACAGAT	TGAGAAGG	AAGAGGAGA	ATGAGACTGACT	CCAGTGAGAGT	..	GAATCTGG	GAGAACTG	GATACCACCATCAT								314
SPP1`IP	TCTGAAGAG	GAGTATGATGAT	GATGATGATGAT	GACAGTGA	CAGCGATGAGTCT	GATGAG	AATGGC	GAGCCAC	CACCTTCT	....							306
SPP1`LW	GAAACAGAT	TGAGGATGAG	..	GAGAATGAG	ACTGACTCCAGT	TGAGAGT	..	AATTCTGG	GAGAACTCAG	AGCACCGTAGT							311
SPP1`PN	ACTATAG	ATTTGTGCCAGG	ATTGGGAC	ACAGATGACT	CCAGT	TGAGAGT	GCTGA	ATCAGG	AGAGACTGAG	GCCACTACCGT							317
SPP1`PP	AAAACAGAT	TGAGGATGAG	..	GAGAACGAG	ACTGACTCCAGT	TGAGAGT	..	AATTCTGG	GAGAACTCAG	AGCACCGT	CGT						308
SPP1-C1`CC	GAAATG	GATGAGAACG	AAAAGGAGA	ACGATACTGACT	CCAGT	TGAGAGT	..	GAATCTGG	GAGAACTTGC	GACCACCGTTGT							314
SPP1-C2`CC	GAAACAGAT	TGAGAAGG	AAGATGAGA	ATGATACTGAT	ACCAGT	TGAGAGT	..	GAATCTGG	GAGAACTTGC	GATCACC	CGTTGT						314
SPP1-C1`SG	AAAACAGT	TGAGAACG	AAAAGGAGA	ACGACTGACT	CCAGT	TGAGAGT	..	GAATCTGG	GAGAACTC	TGCACCAT	CGTTGT						314
SPP1-C2`SG	GAAACAGAT	TGAGAGGG	AAGATGAGA	ATGATACTGAT	TCCAGT	TGAGAGT	..	GAATCTGG	GAGAACTTGC	GATCACC	CGTTGT						314
SPP1-C1`SR	GAAACAGT	TGAGAACG	AAAAGGAGA	ACGATACTGACT	CCAGT	TGAGAGT	..	GAATCTGG	GAGAACTTGC	GACCG	CGTTGT						314
SPP1-C2`SR	GAAACAGAT	TGAGAGGG	AAGATGAGA	ATGATACTGAT	ACCAGT	TGAGAGT	..	GAATCTGG	GAGAACTTGC	GATCACC	CGTTGT						149
SPP1-C1`SA	AAAACAGCT	TGAGAATG	AAAAGGAGA	ACGATACTGACT	CCAGT	TGAGAGT	..	GAATCTGG	GAGAACTTGC	GACCACCGTTGT							314
SPP1-C2`SA	GAAACAGAT	TGAGAGGG	AAGATGAGA	ATGATACTGAT	TCCAGT	TGAGAGT	..	GAATCTGG	GAGAACTC	TGCATCACC	CGTTGT						311

	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	
conservation	*	!!	***	!!	***	!!	***	!!	***	!!	***	!!	***	!!	***	!!	
SPP1`AM	CCCA	CCTTT	CACCGAG	GAGCCC	ACCCTGGG	CCCTATT	ATTAA	ACGACGG	CGCGG	GAGACA	ACATGGG	CTACCC	AGCGACT				394
SPP1`CI	C...	CCATCC	ACAGTAG	AGCCCT	CACTGGAC	CCCATCAT	CAACAC	AGGCGG	GGGAGAC	AGCATGGG	CTACCC	AGCGACT					391
SPP1`DR	C...	CCAGT	CACAGT	CGATCCC	ACGCTGGGT	CCCAT	TATCA	ACACAGG	CGGGG	GAGACAGT	TTGGG	CTACCC	AGCGACT				391
SPP1`IP	...	CCTCCT	ATCATAG	AGACCACT	CTGATCC	CTGTTAT	TAAAT	..	GGCCGT	TGGAGACAG	CATGGG	CTCCAG	AGTGACT				379
SPP1`LW	C...	CCATCC	ACAGT	CGAGCC	CTCGCTGGAC	CCCATCAT	CAACAC	AGGCGG	GGGAGAC	AGCATGGG	CTACCC	AGCGACT					388
SPP1`PN	CCCA	CTGTAA	ACCGTGGAG	CCACCCT	CTGGACCT	TATTATT	TGACAAC	AGGTCGT	TGGAGAC	AGCATGGG	CTACCC	AGCGACT					397
SPP1`PP	C...	CCATCC	ACAGT	CGAGCC	CTCGCTGGAC	CCCATCAT	CAACAC	AGGCGG	GGGAGAC	AGCATGGG	CTACCC	AGCGACT					385
SPP1-C1`CC	C...	CCATT	CACAGT	TGAAAC	CCCACTGGAC	CCCATCAT	CAACAC	AGGCGG	GGGAGACA	ACATGG	ACTATCCT	AGCGACT					391
SPP1-C2`CC	C...	CCCTCC	ACAGTAG	AACCC	CTCACTGGAC	CCCATCAT	CAACAC	AGGCGG	GGGAGACA	ACATGGG	CTACCC	AGCGACT					391
SPP1-C1`SG	C...	CCCTCC	ACAGT	TGAAAC	CCCTCACTGGAC	CCCATCAT	CAACAC	AGGCGG	GGGAGAC	AGCATGGG	CTATCCT	AGCGACT					391
SPP1-C2`SG	C...	CCCTCC	ACAGTAG	AACCC	CTCACTGGAC	CCCATCAT	CAACAC	AGGCGG	GGGAGAC	AGCATGGG	CTACCC	AGCGACT					391
SPP1-C1`SR	C...	CCCTCC	ACAGT	TGAAAC	CCCTCACTGGAC	CCCATCAT	CAACAC	AGGCGG	GGGAGAC	AGCATGGG	CTATCCT	AGCGACT					391
SPP1-C2`SR	C...	CCCTCC	ACAGTAG	AACCC	CTCACTGGAC	CCCATCAT	CAACAC	AGGCGG	GGGAGAC	AGCATGGG	CTACCC	AGCGACT					226
SPP1-C1`SA	C...	CCCTCC	ACAGT	TGAAAC	CCCTCACTGGAC	CCCATCAT	CAACAC	AGGCGG	GGGAGAC	AGCATGGG	CTATCCT	AGCGACT					391
SPP1-C2`SA	C...	CCCTCC	ACAGTAG	AACCC	CTCACTGGAC	CCCATCAT	CAACAC	AGGCGG	GGGAGAC	AGCATGGG	CTACCC	AGCGACT					388

[illegible]

	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	
<i>conservation</i>	*	*	*	*	*	!	*	*	*	*	!	*	*	*	*	*	
<i>SPP1'AM</i>	A	T	C	G	A	G	G	T	C	T	G	A	A	C	A	C	C
<i>SPP1'CI</i>	T	T	G	G	G	C	G	G	T	T	G	A	C	A	T	T	
<i>SPP1'DR</i>	C	T	G	G	G	C	G	G	T	T	G	A	C	A	T	T	
<i>SPP1'IP</i>	A	C	C	A	A	G	G	T	G	A	G	A	A	T	A	G	T
<i>SPP1'LW</i>	T	T	A	G	G	C	G	T	T	T	G	A	C	A	T	T	
<i>SPP1'PN</i>	A	C	T	G	A	T	A	G	T	A	C	T	T	T	A	T	
<i>SPP1'PP</i>	T	T	A	G	G	C	G	T	T	T	G	A	C	A	T	T	
<i>SPP1-C1'CC</i>	T	T	G	G	G	C	G	G	T	T	G	A	C	A	T	T	
<i>SPP1-C2'CC</i>	T	T	G	G	G	C	G	G	T	T	G	A	C	A	T	T	
<i>SPP1-C1'SG</i>	T	T	G	G	G	C	G	G	T	T	G	A	C	A	T	T	
<i>SPP1-C2'SG</i>	T	T	G	G	G	C	G	G	T	T	G	A	C	A	T	T	
<i>SPP1-C1'SR</i>	T	T	G	G	G	T	G	G	T	T	G	A	C	A	T	T	
<i>SPP1-C2'SR</i>	T	T	G	G	G	T	G	G	T	T	G	A	C	A	T	T	
<i>SPP1-C1'SA</i>	T	T	G	G	G	T	G	G	T	T	G	A	C	A	T	T	
<i>SPP1-C2'SA</i>	T	T	G	G	G	T	G	G	T	T	G	A	C	A	T	T	

conservation

555	560	565	570	575	580	585	590	595	600	605	610	615
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
SPP1'AM	GGTTTACAAAG	.....	GTGCACAAT	GATGT	TCTG	.....	GAGGAGGACACCAG	CACCC	CTGAGGAGGAGAGC	....		615
SPP1'CI	ACTGTACAAGGCTCT	ACAGGTGCATGAT	GCTCCTCTG	...	GAGGAGGAGGACACCAG	CACCC	CAGAGGTGGAGAAACATGG					628
SPP1'DR	ACTGTACAAGGCTCT	CCAGGTACATGAT	CTG	.....	GAGGAGCGGAACACCAG	CACCT	CAGAGATAGACAACATCG					622
SPP1'IP	ATACTGAAAA	AAAAAAAAAGCATTACA	.....	ATATCTGAGACTCAGT	GAGTTC	CTTTT	GTTTCTCAG	...				600
SPP1'LV	ACTGCACAGTGCTCT	ACAGGTGCATGAT	CTTCTG	.....	GAGGAGGAGGACACCAG	CACCC	CCGAGATGGAGAACATGG					619
SPP1'PN	GGTGTACAAGGCTCT	GCAGGTGCACAAT	GAAGTCCTG	.....	GAGGAGGAT	ACTAGCACTC	CAGAGGAGGAGAGC	....				627
SPP1'PP	ACTGCACAAGGCTCT	GCAGGTGCATGAT	CTTCTG	.....	GAGGAGGACAGCAGCACTC	CCGAGATGGAGAACATGG						616
SPP1-C1'CC	ACTGTACAAGGCTCT	GCAGGTGCATGAT	ACTCTCAG	...	GAGGAGGACAACACCAG	CACCC	CAGAGGTGGAGAACATGG					610
SPP1-C2'CC	ACTGTACAAGGCTCT	ACAGGTGCATGAT	ACTCTCTG	GAG	GAGGAGGAGGACACCAG	CACCC	CAGAGCTGGAGAACATGG					622
SPP1-C1'SG	ACTGTACAAGGCTCT	GCAGGTGTATGAT	ACTCTCTG	...	GAGGAGGACGACACCAG	CACCC	CAGAGGTGGAGAACATGG					628
SPP1-C2'SG	ACTGTACAAGGCTCT	GCAGGTGCATGAT	ACTCTTCTG	..	GAGGAGGAGGACACCAG	CACCC	CAGAGGTGCAGAACATGG					619
SPP1-C1'SR	ACTGTACAAGGCTCT	GCAGGTGCATGAT	ACTCTTCTG	..	GAGGAGGACGACACCAG	CACCC	CAGAGGTGGAGAACATGG					628
SPP1-C2'SR	ACTGTACAAGGCTCT	GCAGGTGCATGAT	ACTCTTCTG	..	GAGGAGGAGGACACCAG	CACCC	CAGAGGTGCAGAACATGG					454
SPP1-C1'SA	ACTGTACAAGGCTCT	GCAGGTGTATGAT	ACTCTTCTG	..	GAGGAGGACGACACCAG	CACCC	CAGAGGTGGAGAACATGG					628
SPP1-C2'SA	ACTGTACAAGGCTCT	GCAGGTGCATGAT	ACTCTTCTG	..	GAGGAGGAGGACACCAG	CACCC	CAGAGGTGCAGAACATGG					616

conservation

	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690
<i>SPP1'AM</i>	*****	* ** *	* ** *	* ** *	* ** *	!	* ** *	* ** *	* ** *	!	* ** *	* ** *	* ** *	* ** *	
<i>SPP1'CI</i>	.....	CAGGGT	CTGGAGGCTT	CCAGCGGT	ACTGAGGA	AAGAGG	GAGCCCAAT	GCAAA	GCAGG	CGTCT	CTGGAT	GATCAACAG			690
<i>SPP1'DR</i>		AGCCAA	GCGATCGCCAGG	TGCTCTGGGA	AGCCAA	GAGATCGTT	CCCGCG	GAAACCA	.....	GAG					690
<i>SPP1'IP</i>		AGGCAAAT	GAGCGCCAGGCTG	CCCTGGGAGGCCA	AGAGATTGTT	CCCGTT	GGGACCAAGG	CAGCTACAGAA	GAG						696
<i>SPP1'LP</i>				GCTCTG	CAGGTGCACAAT	GTTGGCTG	GACCAGGAGT	GGACGCCT	CCAGTGGC						654
<i>SPP1'LV</i>		AGCCA	AGGAGACCGCCAGG	CGCTCTGGGA	AGCCAA	GAGATCGTT	CCCGCG	GAAACCA	.....	GAG					681
<i>SPP1'PN</i>	.....	CAGGGT	CTGGAGGTTG	CCAGCAGAA	CAGAGG	ACGAGGGGCCA	AGTGC	AAAGCAGG	CATCCCTG	.....					690
<i>SPP1'PP</i>		AGCCA	AGGAGACCGCCAGG	CGCTCTGGGA	AGCCAA	GAGATCGTT	CCCTGCG	CGGCAACCA	.....	GAG					678
<i>SPP1-C1'CC</i>		AGCCAA	ACGACCGCCAGG	CTGCTCTGGGA	AACCAAG	GATCGTTCC	ACCGAA	ACCAGG	ATGCTACAGAA	GAG					684
<i>SPP1-C2'CC</i>		AGCCAA	ACGACCGCCAGG	CTCTGGGA	AGCCAA	GATCGTTCC	ACCTGGA	AAACAGG	ATGCTACAGCAGAG						696
<i>SPP1-C1'SG</i>		AGCCAA	ACGACCGCCAGG	CTGCTCTGGGA	AGCCAA	GATCGTTCC	ACCGAA	ACCAGG	ATGCTACAGCAGAG						702
<i>SPP1-C2'SG</i>		AGCCAA	ACGACCGCCAGG	TGCTCTGGGA	AGCCAA	GATATCGTT	CCACTG	GAAACCAGG	ATGCTACAGCAGAG						693
<i>SPP1-C1'SR</i>		AGCCAA	ACGACCGCCAGG	CTGCTCTGGGA	AGCCAA	GATCGTTCC	ACCGAA	ACCAGG	ATGCTACAGCAGAG						702
<i>SPP1-C2'SR</i>		AGCCAA	ACGACCGCCAGG	CTGCTGGGA	AGCCAA	GATATCGTT	CCCACTG	GAAACCAGG	ATGCTACAGCAGAG						528
<i>SPP1-C1'SA</i>		AGCCAA	ACGACCGCCAGG	CTGCTGAGA	AGCCAA	GATCGTTCC	ACCGAA	ACCAGG	ATGCTACAGCAGAG						702
<i>SPP1-C2'SA</i>		AGCCAA	ACGACCGCCAGG	CTGCTGGGA	AGCCAA	GATATCGTT	CCACTG	GAAACCAGG	ATGCTACAGCAGAG						690

[illegible]

