

	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	
conservation	!!*!*!*	*****	*!	*****	*!	*!*!*!	*****	*!	*!*!*!	*****	*!	*****	!!*	*****	*!	*****	
SPARCI1`CI	ATGAAGAAAGACCTGTTTCTCTTCTGCTTTTGGTCTCTGCACTGGCTGCATATGTACAAAGTAAGCCTCGTGAAAAACA	80															
SPARCI1`DR	ATGAAGAAAGAGGTGTTTCTCTTCTGCTTTTGGTAACAGCACTGGCTGCATATGTACAAAGTAAGCCTCATGGAAGGAA	80															
SPARCI1`IP	ATGGAGGTTTGATCTTCTGTGCCTCTTCTGATGGCCTCAGCATTAACTGTCTACGTGCAAAGTACTCCTCATGAGAAGCA	80															
SPARCI1`LW	ATGAAGAAAGACCTGTTTCTATTCTGCTTTTGGTCTCTGCACTGGCTGCTTATGTACAAAGTAAGCCTCGTGAAAAAAA	80															
SPARCI1`PN	ATGAAGGTTTCATCTTCTGCATCTGTGCTTTTGGTCTCAGCATTAGCCCTGACTGTGCAAAGTAAACCTCATGGAAGCA	80															
SPARCI1`PP	ATGAAGAAAGACCTGTTTCTATTCTGCTTTTGGTCTCTGCACTGTCTGCTTATGTACAAAGTAAGCCTCGTGAAAAAAA	80															
SPARCI1-AM	ATGAAGGTTTCGTCTTCTGTATTGTGCTTCTGGCTTCTGACTTTAGCTTCTGACTGTGAGATGTAAGCCTCATGGAAGCA	80															
SPARCI1-C1`CC	ATGAAGAAAGACCTGTTTCTCTTCTGCTTTTGGTCTCAGCACTGGCTGCATCTGTACAAAGTAATCCTCATGAAAAAAA	80															
SPARCI1-C2`CC	ATGAAGAAAGACCTGATTCTTTTCTGCTTTTGGTCTCAGCACTGGCCGCATATGTACAAAGTAAGCCTCATGAAAAAAA	80															
SPARCI1-C1`SG	ATGAAGAAAGACCTGTTTCTCTTCTGCTTTTGGTCTCAGCACTGGCTGCATATGTACAAAGTAAGCATCATGAAAAAAA	80															
SPARCI1-C2`SG	ATGAAGAAAGGCCTGTTTCTCTTCTGCTTTTGGTTTCAGCACTGGCCGCATATGTACAAAGTAAGCCACATGAAAAAAA	80															
SPARCI1-C1`SA	ATGAAGAAAGACCTGCTTCTCTTCTGCTTTTGGTCTCAGCACTGGCTGCATATGTACAAAGTAAGCATCATGAAAAAAC	80															
SPARCI1-C2`SA	ATGAAGAAAGGCCTGTTTCTCTTCTGCTTTTGGTCTCAGCACTGGCCGCATATGTACAAAGTAAGCCACATGAAAAAAA	80															
SPARCI1-C1`SR	ATGAAGAAAGACCTGCTTCTCTTCTGCTTTTGGTCTCAGCACTGGCTGCATATGTACAGAGTAAGCATCATGAAAAAAA	80															
SPARCI1-C2`SR	ATGAAGAAAGGCCTGTTTCTCTTCTGCTTTTGGTCTCAGCACTGGCTGCATATGTACAAAGTAAGCCACATGAAAAATA	80															

	85	90	95	100	105	110		115	
conservation	*****	!***	*****	*****	*	*****	!****	*!*	*
SPARCI1`CI	TCAG...	CATGTCAAAACACAAC	CCA	ACTCCACAAGAG	...	...	...	CAG	117
SPARCI1`DR	ACAG...	CACATCAAGCACATT	GCGACTCCAAAAGAG	...	...	...	...	CAGTCA	121
SPARCI1`IP	CGGGTCT	CTCTCCAGATGGTCC	CAA	AATTTCTAAGGAG	...	...	...	GAGGATGAT	127
SPARCI1`LW	TCAG...	CATGTCAAAAACAAC	CCA	ACTCCACAAGAG	...	...	...	CAG	117
SPARCI1`PN	TGAGTCT	CACCACAAGCACACA	CAGTCT	ACTAAGGAG	...	...	...	AAGGAT	124
SPARCI1`PP	TCAG...	CATGTCAAAAACAGC	CCA	ACTCCACAAGAG	...	...	...	CAGTTATTTA	124
SPARCI1-AM	TGAACCT	CACAGAGAACAGTCT	CAGTCTTTCTA	AAGGAAAAGGAGTGGAAGAGGATTCCAGTAGCAACCTGT	...	...	...	CAAGTCCTGA	160
SPARCI1-C1`CC	GCAG...	CATGTCAGACACAAC	CACA	ACTCCAAAAGAG	...	...	...	CAGCCA	121
SPARCI1-C2`CC	TCAG...	CATGCCAAACACAAG	CTGACTCCAAAAGAG	...	...	...	...	CAGTCG	121
SPARCI1-C1`SG	TCAG...	CATTTCAAACACAAC	CCGACTCCAAAAGAG	...	...	...	...	CAGCCA	121
SPARCI1-C2`SG	TCAG...	CATGTCAAACACAAG	CTGACTCCAAAAGAG	...	...	...	...	CAGTCA	121
SPARCI1-C1`SA	TCAG...	CATTTCAAACACAAC	CCGACTCCAAAAGAG	...	...	...	...	CAGCCA	121
SPARCI1-C2`SA	TCAG...	CATGTCAAACACAAG	CTGACTCCAAAAGAG	...	...	...	...	CAGTCA	121
SPARCI1-C1`SR	TCAG...	CATGTCAAACACAAC	CCGACTCCAAAAGAG	...	...	...	...	CAGCCA	121
SPARCI1-C2`SR	TCAG...	CATGTCAAACACAAG	CTGACTCCAAAAGAG	...	...	...	...	CAGTCA	121

	120	125	130	135	140	145	150	155	160	165	170	175	180	185	
conservation	* ! * * * * * * * * * * ! ! * * * * * *														

	190	195	200	205	210	215	220	225		230	235	240	245	250	255	260
conservation	**	*	**	*	*	*	*	*	*	*	*	*	*	*	*	*
SPARCI1`CI	...	GAGGACATGAGTGAAGAGAAGGAAAGCCATGTGGAG	...	ATGAAGCAAGCGGGGCCAAGAGCTTGAAGGTT	CAGA	263										
SPARCI1`DR	...	GAAGACACGAGCGAGGAGACTGAGAGCCGTGTGGAG	...	ATGAACCAAGCGGAGGCAAGAGGCTGAAGGTT	CAGA	269										
SPARCI1`IP	GAC	GAGGACGCAAGCAAGGAGACATCAAATGGTGGAGAAGGAACAGATGAAGTATATTCACTAGATTGTGGAGATGTCTGC	287													
SPARCI1`LW	...	GAGGACATGAGTGAAGAGAAGGAAAGCCATGTGGAG	...	ATGAAGCAAGCGGGGCCAAGAGCTTGAAGGTT	CAGA	263										
SPARCI1`PN	GAT	GAAGAT	...	GTGAAG	...	TCAGAGGAGGTGAACACAGGTACTCTGAAGGCATCTGA	257									
SPARCI1`PP	...	GAAGACACGAGTGAAGAGAAGGAAAGCCTTGTGGAG	...	GTGAAGCAAGTGGGGCCAAGAGCTTGAAGGTT	CAGA	272										
SPARCI1-AM	GACGAG	...	GCCAGCCAGCGGACAGTTCTGA	269												
SPARCI1-C1`CC	GATGAGGACAAAGAGAGAAGAGAATGAGAGCCGTGTGGAA	...	ATGAAGCAAGCAGAGGCAAGAGGCTTGAAGTTT	CAGA	278											
SPARCI1-C2`CC	GACGAAGACATGAGTGAGGAGAATGAGAGCCGTGTGAAG	...	ATGAAGCAAGCAGGGGCCAAGAGCTTGAAGGTTCTGG	278												
SPARCI1-C1`SG	GATGAGGACAAAGAGTGAGGAGAATGAGAGTCGTGTGGAG	...	ATGAAGCAAGCTGGGGCCAAGAGCTTGAAGGCT	CAGA	278											
SPARCI1-C2`SG	GATGAAGACATGAGTGAGGAGAATGAGAGCCGTGTGGAG	...	ATGAAGCAAGTAGGGGCCAAGAGCTTGAAGGTT	CAGA	278											
SPARCI1-C1`SA	GATGAGGACAAAGAGTGAGGAGAATGAGAGCCGTGTGGAG	...	ATGAAGCAAGCAGGGGCCAAGAGCTTGAAGGCT	CAGA	278											
SPARCI1-C2`SA	GATGAAGACATGAGTGAGGAGAATGAGAGCCGTGTGGAG	...	ATGAAGCAAGCAGGGCCAAGAGCTTGAAGGTT	CAGA	278											
SPARCI1-C1`SR	GATGAGGAC	...	CGTGTGGAG	...	ATGAAGCAAGCAGGGCCAAGAGCTTGAAGGCT	CAGA	257									
SPARCI1-C2`SR	...	...	TCAGGGCCAGAAGCTGAAGGTT	CAGA	221									

	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340
conservation	*!*!*!*!	*!*!	*****	*****	!!*	!!*	!!*	!!*	!!*	!!*	*!*!*!	*!*!				
SPARCI1`CI	GGAAGGTGATAAGAATACACCTTTGCTCCTGAGTGAGGAGGCAC	TGACTCAGCTCCTGCAGGTCTCTGAGGAGGCAGAGG														343
SPARCI1`DR	TGGAGGTGAAAAGAAGGAACCTTTACTCCTGAGTGATGAGGCATTGACTCAGCTCCTGC	AAGAACCCGTG														339
SPARCI1`IP	TGAAGATGGCAGGAGCATTCTGTGCTGCTGAGTGAAGAGATGCTGGCTCAACTTATAAAG															348
SPARCI1`LW	GGGAGGTGAGAAATAACACCTTTGCTCCTGAGTGAGGAGGCAC	TGACTCAACTCCTGCAGGTCTTGAGGGGGCGAAACT														342
SPARCI1`PN	TGGAGATGCGAGGAACATTCTGTACTTCTAAGTGAAGAGGCAC	TCACTAAACTCCTTCAAGCTTCTGAA														327
SPARCI1`PP	GGGTGGTGAGAAGAATACACCTTTGCTCCTGAGTGAGGAGGCAC	TGACTCAACTCCTGCAGGTCTCAGAGGAG														345
SPARCI1-AM	TGGAGATGAGAGGGCCACCTTGTCTCTGAGTGAAGAAGCTCTCACTAAACTCCTTCAGGCTTCT															336
SPARCI1-C1`CC	GGAAGGTGAGAAGAATACACCTTTGCTCCTGAGTGAGGAGGCAC	TGTCTCAGCTCCTACAGGTCCCC														345
SPARCI1-C2`CC	GGAAGGTGAGAAGAATACACCATTTGCTCCTGAGTGAGGAGGCAC	TGACTCAGATCCTGCAGGTTTCATGAG														348
SPARCI1-C1`SG	GGAAGGTGAGAAGAATACACCTTTGCTCCTGAGTGAGGAGGCAC	TGTCTCAACTCCTACAG														339
SPARCI1-C2`SG	GGAAGGTGAGAAGAATACACCATTTGCTCCTGAGTGACGAGGCAC	TGACTCAGCTCCTGCAG														339
SPARCI1-C1`SA	GGAAGGTGAGAAGAATACACCTTTGCTCCTGAGTGAGGAGGCAC	TGTCTCAACTCCTACAG														339
SPARCI1-C2`SA	GGAAGGTGAGAAGAATACACCATTTGCTCCTGAGTGACGAGGCAC	TGACTCAGCTCCTGCAG														339
SPARCI1-C1`SR	GGAAGGTGAGAAGAATACACCTTTGCTCCTGAGTGAGGAGGCAC	TGTCTCAACTCCTACAG														318
SPARCI1-C2`SR	GGAAGGTGAGAAGAATACACCATTTGCTCCTGAGTGACGAGGCAC	TGACTCAGCTCCTGCAGGTCCCTGAGGAGGTAGATG														301

conservation	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	
SPARCI1`CI	AAATT...	GTGGAG	GAG	GAT	GAAGAT	GATAAT	GACGGT	CAG	AAAAAGACAAAG	AAGTT	AAGGAGATG	...	GAG	GAGGAG		417
SPARCI1`DR	.....	GAGGAG	GAT	GAAGAT	GATCATT	CTGAGA	GTCTGG	GAG	AAAGATGAAG	TGATG	GACAAGGTG	.....	GAG	CAG		405
SPARCI1`IP	.....	GATTCT	GAGGA	AGAGC	AGCAT	GATG	TGTGG	GAG	AAAGATGAGG	AAAGAT	GTT.....	GAT	GAAGAT			405
SPARCI1`LW	.....	ATGGAG	GAG	GAT	GAAGGT	GATGAT	GACGTC	CAG	AAAAAGACAAAG	AAGTT	AAGGAGAT	TGAG	GAG	GAGGAG		414
SPARCI1`PN	.....	GAGGA	ACAGC	AGATCAT	GAGGA	AGACAAAG	AAGATG	AGG	ACATAGG	AGAAGG	AGGAGGA	GAT	GAATCT			393
SPARCI1`PP	.....	GCAGAT	GAAACT	TATGGAG	GAGGAT	GAAGGT	CAG	AAAAAGACAAAG	AAGTT	AAGGAGA	CTGAG	GAG	GAGGAG			417
SPARCI1-AM	.....	GAGGAT	GAACAGC	AGCAGG	CTGTGG	AAGAAG	ACAAAG	AAGATGAAG	ATGAAG	TGAAG	GAAGAA	GAAGAA				399
SPARCI1-C1`CC	.....	GAGGAG	GAAGAT	GATGAT	GATAGTT	CA	AAAAAGACAAAG	AAATG	AAGGAGATG	...	GAG	GAGGAG				405
SPARCI1-C2`CC	.....	GTGGTA	GAT	GAACCT	GTTGAG	GAGGAT	GAAAGAT	GATGAT	GACAAAG	AAATG	AAGGAGATG	...	GAG	GAGGAG		417
SPARCI1-C1`SG	.....	GAGGAT	GAAGAT	GATGAT	GATAGTT	CA	AAAAAGACAAAG	AAATG	AAGGAGATG	...	GAG	GAGGAG				399
SPARCI1-C2`SG	.....	GAGGAT	GAAGAT	GATGAT	GATGAT	GACGTC	CAG	AAAAAGACAAAG	AAACG	AAGGAGATG	...	CAG	GAAGAG			405
SPARCI1-C1`SA	.....	GAGGAT	GAAGAT	GATGAT	GATAGTT	CA	AAAAAGACAAAG	AAATG	AAGGAGATG	...	GAG	GAGGAG				399
SPARCI1-C2`SA	.....	GAGGAT	GTA	GATGAT	GATGAT	GATGAT	GACGTC	CAG	AAAAAGACAAAG	AAACG	AAGGAGATG	...	CAG	GAGGAG		408
SPARCI1-C1`SR	.....	GAGGAT	GAAGAT	GATGAT	GATAGTT	CA	AAAAAGACAAAG	AAATG	AAGGAGATG	...	GAG	GAGGAG				378
SPARCI1-C2`SR	AACCTGT	GAGGAG	GAA	GAAGAT	GATGAT	GATGAT	GACGTC	CAG	AAAAAGACAAAG	AAACG	AAGGAGATG	...	CAG	GGGAG		378

conservation	420	425	430	435	440	445	450	455	460	465	470	475				
SPARCI1`CI	.....	GGGAAG	GAAAA	TGAAGA	ATCTACA	ATGGAGA	ATGAAGAT	GAAATT	TGAGAAG	GAGCGAAG	GGT...	GA				479
SPARCI1`DR	.....	TCAAC	CAGAA	AGATGG	GAGAAT	CCAAA	CCGAGACT	GAAAAC	CGAGGCT	GAGAGCA	AGGAA	.....	GA			464
SPARCI1`IP	.....	GGCGT	AGGAAA	AGTAG	CGGAT	ATGAAT	GAGGAG	AAAGACC	AGCAAG	AGCAGCT	AAAA	GAGAA	AGATT	TGA		479
SPARCI1`LW	.....	GGAAAG	GAATAT	CGAGA	ATCTACA	ATGAGA	ATGAAGAT	GTA	ACTGAG...	AGTGAAG	GT	.....	GA			473
SPARCI1`PN	.....	AAAA	CAGGG	GATGG	AAAAAGG	AGCAGCA	AAGGAAC	AGCAGC	AGCAAAA	GGGGAG	A.....	GT				449
SPARCI1`PP	.....	GGAAAG	GAAAA	GGGAGA	ATCTACA	ATGGAGA	ATGAAGAT	GTA	ACTGAGAA	GAGTGAAG	GT	.....	GA			479
SPARCI1-AM	GAAAGA	GAATT	GAGGA	ACCGA	AGGAAG	AGATCAG	AGAGGA	ATCTA	AGGTTA	TGGTG	GAGGAG	GAA	CAAAA	...	GA	476
SPARCI1-C1`CC	.....	GGAAAG	AAAAG	ATGG	GAGAAT	CTACG	ATGAAGA	ATGAAGAT	GGA	ACTGAAAA	AAAGAAAT	GGT	GAGAA	AGAT	GTA	GA 479
SPARCI1-C2`CC	.....	GGAAAG	AAAAT	ATGG	GAGAAT	CTATAA	CAAGA	ACGAAGAT	GGA	ACTGAAAA	AAAGGAAGG	GGG	GAG	ACA	AGGTAG	GA 491
SPARCI1-C1`SG	.....	GGAAAG	AAAAG	ATGG	GAGAAT	CTACA	ATGAAGA	ACGAAGAT	GGA	ACTGAAAA	AAAGGAAGG	TGAG	ACA	AGGTAG		473
SPARCI1-C2`SG	.....	GGAAAG	AAAAG	ATGG	GAGAAT	CTACA	ATGAAGA	ACGAAGAT	GGA	ACTGAAAA	AAAGGAAGG	TGAG	ACA	AGGTAG		476
SPARCI1-C1`SA	.....	GGAAAG	AAAAG	ATGG	GAGAAT	CTACA	ATGAAGA	ACGAAGAT	GGA	ACTGAAAA	AAAGGAAGG	TGAG	ACA	AGGTAG		473
SPARCI1-C2`SA	.....	GGAAAG	AAAAG	ATGG	GAGAAT	CTACA	ATGAAGA	ACGAAGAT	GGA	ACTGAAAA	AAAGGAAGG	TGAG	ACA	AGGTAG		482
SPARCI1-C1`SR	.....	GGAAAG	AAAAG	ATGG	GAGAAT	CTACA	ATGAAGA	ACGAAGAT	GGA	ACTGAAAA	AAAGGAAGG	TGAG	ACA	AGGTAG		452
SPARCI1-C2`SR	.....	GGAAAG	AAAGAT	GG	GAGAAT	CTACA	ATGAAGAA	CAAGAT	GGA	ACTGAAAA	AAAGGAAGG	TGAG	ACA	AGGTAG		452

conservation	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	
SPARCI1`CI	GGATGCAAAGGAGACTGACAGCAGTACTGATTCAGAGATACCAATGGATTGGACTATGCAGCTGACCGTGATGCTTCA.	558															
SPARCI1`DR	GGATTCAAAGGACACAGACAGCAGTACTGAGTCAGAGATACCAATGGATTGGACTACACAAGCTGACAGAGATGCTTCT.	543															
SPARCI1`IP	AGAA...GAGGAGGTAGGGAGTAGCACAGACTCGGAAATACCAGTAGATTTAGATTATTCTGCTGACAGTGTCTCTATA.	555															
SPARCI1`LW	GGATGCAAAGGAGACTGACAGCAGTACTGAGTCAGAAATACCAATGGATTGGACTATGCAGCTGACCGTGATGCGTCA.	552															
SPARCI1`PN	AGAAGTGGAGGAAGCTGGGAGTAGCACAGATTCAGAGATACCAATGGCTTTAGACTATGCTGCTGACAGTGAGACTATA.	528															
SPARCI1`PP	GGATGCAAATGAAACTGACAGCAGTACTGAGTCAGAAATACCAATGGGTTTGGTCTATGCAGCTGATCGCGATGCGTCT.	558															
SPARCI1-AM	GGTGTGGAGGAGCTGGGAAGCAGCAGAGACTCCGAGATACCAAGTAGATCTGGACTATGCTGCTGATGGAGAAGCTGGTG	556															
SPARCI1-C1`CC	GGATGCAAAATGAGACCGACAGCAGTACTGAGTCAGAGATCCCAATTGATTGGACTATGCAGCTGACCGTGATGCTTCA.	558															
SPARCI1-C2`CC	GGATGCAAAATGAGACTGACAGCAGTACTGAGGCAGAGTTACCAATGGATTTTGGACTATGCAGCTGATCGTGATGCTTCA.	570															
SPARCI1-C1`SG	GGATGCAAAATGAGACCGACAGCAGTACTGAGTCAGAGATCCCAATTGATTTGGACTATGCAGCTGACCGTGAGGCTTCA.	552															
SPARCI1-C2`SG	GATTGCAAAATGAGACTGACAGCAGTACTGAAATCAGAGATACCAATGGATTGGACTATGCAGCTGACCGTGATGCTTCA.	555															
SPARCI1-C1`SA	GGATGCAAATGAGACCGACAGCAGTACTGAGTCAGAGATCCCAACTGATTTGGACTATGCAGCTGACCGTGAGGCTTCA.	552															
SPARCI1-C2`SA	GGATGCAAAATGAGACTGACAGTAGTACTGAATCAGAGATACCAATGGATTGGACTATGCAGCTGATCGTGATGCTTCA.	561															
SPARCI1-C1`SR	GGATGCAAAATGAGACCGACAGCAGTACTGAGTCAGAGATCCCAATTGATTGGACTATGCAGCTGACCGTGAGGCTTCA.	531															
SPARCI1-C2`SR	GGATGCAAAATGAGACTGACAGCAGTACTGAATCAGAAATACCAATTGATTTGGACTATGCAGCTGACCGTGATGCTTCA.	531															

		560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	
conservation		* ! *																

	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	
conservation	* ! *																

conservation	1105	1110	1115	1120	1125	1130	1135	1140	1145	1150	1155	1160	1165	1170	1175	
SPARCI1`CI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	1178
SPARCI1`DR	ATTAGGGCCA	CTATGGAGCT	TTTACCCTGAC	.....	ATTTCGA	CCTACCCAT	TCGGCCCAGT	TGACAGGGGG	TGCCAGCTGA							1115
SPARCI1`IP	TTCAGGGCTG	CAGTGGATC	TTTTCCCAAA	.....	AAGAATTT	CACGTGTG	CATATGTACATG	TAATCAT	TATATCCAGA							1136
SPARCI1`LW	ATTAGGGCCA	CTATGGAGCT	TTTACCCTGAC	.....	ATTTCG	CCCACA	CATCGGGCCAG	CAGACAGGGGG	GAGCCAGCTGA							1178
SPARCI1`PN	ATTTCGGGCA	ACAGTGGAGCT	GTTC	CC	CAGACCTGTG	GT	CAGGTCCAGAC	TCGGAG	CGACGG	CCAGGAAGCT	CC	CG	CCGA			1106
SPARCI1`PP	ATTAGGGCCA	CTATGGAGCT	TTTACCCTGAC	.....	ATTTCG	CCCAG	CAGA	.....	CAGGGG	GAGCCAGCTGA						1130
SPARCI1-AM	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1041
SPARCI1-C1`CC	ATCAGGGCCG	CTATGGAGCT	TTTACCCTGAC	.....	ATTTCGA	CCCACCC	ATCGGGCCCAG	CGGACAGGGGG	TTGTCAGATGA							1151
SPARCI1-C2`CC	ATTAGGGCCA	CTATGGAGCT	TTTACCCTGAC	.....	ATTTCGA	CCCACCCG	TGGCCCAGT	TGACAGGGGG	TTACCAGTTGA							1175
SPARCI1-C1`SG	ATCAGGGCCG	CTATGGAGCT	TTTACCCTGAC	.....	ATTTCGA	CCCACCC	ATCGGGCCCAGT	TGACAGGGGG	TTGCCAGATGA							1169
SPARCI1-C2`SG	ATTAGGGCCA	CTATGGAGCT	TTTACCCTGAC	.....	ATTTCGA	CCCACCC	ATCGGGCCCAGT	TGACAGGGGG	TTGCCAGCTGA							1169
SPARCI1-C1`SA	ATCAGGGCCG	CTATGGAGCT	TTTACCCTGAC	.....	ATTTCGA	CCCACCC	ATCGGGCCCAGT	TGACAGGGGG	TCGT	CAGATGA						1169
SPARCI1-C2`SA	ATTAGGGCCG	CTATGGAGCT	TTTACCCTGAC	.....	ATTTCGA	CCCACCC	ATCGGGCCCAGT	TGACAGGGGG	TTGCCAGCTGA							1187
SPARCI1-C1`SR	ATCAGGGCCG	CTATGGAGCT	TTTACCCTGAC	.....	ATTTCGA	CCCACCC	ATCGGGCCCAGT	TGACAGGGGG	TTGCCAGATGA							1148
SPARCI1-C2`SR	ATTAGGGCCA	CTATGA	AAGCTTTACCCTGAC	.....	ATTTCGA	CCCACCC	ATCGGCA	CAGT	TGACAGGGGG	TTGCCAGCTGA						1157

conservation	1180	1185	1190	1195	1200	1205	1210	1215	1220	1225	1230	1235	1240	1245	1250	1255	
SPARCI1`CI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	1258
SPARCI1`DR	CCCCTGT	GAGAACTTT	CGCTGT	AAAA	GAGG	GAAGACAT	GCAAAAT	AAAT	GATGAGAACA	AA	CCCGTCTGTGTGTGT	GCAGG					1195
SPARCI1`IP	CTCATGT	GAGAACTT	CCACTGT	AA	GC	GAGG	GAAGACAT	GCAAGCT	GAA	CGATAT	GAAGAAG	CCCAGCTGTGTGTGT	GCAGG				1216
SPARCI1`LW	CCCTTGT	GAGAACTTT	CGCTGT	AAAA	GAGG	GAAGACAT	GCAAAAT	GAA	CGATGAGAACA	AA	CCCGTCTGTGTGTGT	GCAGG					1258
SPARCI1`PN	CCCATGT	GAGAACTT	CCACTGT	AA	GC	GAGG	GAAGACAT	GCAAACT	GAA	CGAAGAACA	GAA	CCAACTTGTGTGTGT	GC	AA	G		1186
SPARCI1`PP	CCCCTGT	GAGAACTTT	CGCTGT	AAAA	GAGG	GAAGACAT	GCAAAAT	GAA	CGATGAGAACA	AA	CCCGTCTGTGTGTGT	GCAGG					1210
SPARCI1-AM	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1041
SPARCI1-C1`CC	CCCCTGC	GAGAACTTT	CGCTGT	AAAA	GAGG	AAAGAC	GTGCAAAAT	GAA	TGATGAGAACA	AA	CC	TGTCTGTGTGTGT	GCAGG				1231
SPARCI1-C2`CC	CCCCTGT	GAGAACTTT	CGCTGT	AAAA	GAGG	GAAGACAT	GCAAAAT	GAA	CGATGAGAACA	AA	CCCGTCTGTGTGTGT	GCAGG					1255
SPARCI1-C1`SG	CCCCTGT	GAGAACTTT	CGCTGT	AAAA	GAGG	AAAGACAT	GCAAAAT	GAA	TGATGAGAACA	AA	CCCGTCTGTGTGTGT	GCAGG					1249
SPARCI1-C2`SG	CCCCTGC	GAGAACTTT	CGCTGT	AAAA	GAGG	GAAGACAT	GCAAAAT	GAA	CGATGA	CAACAAG	CCCGTCTGTGTGTGT	GCAGG					1249
SPARCI1-C1`SA	CCCCTGC	GAGAACTTT	CGCTGT	AAAA	GAGG	AAAGACAT	GCAAAAT	GAA	TGATGAGAACA	AA	CCCGTCTGTGTGTGT	GCAGG					1249
SPARCI1-C2`SA	CCCCTGC	GAGAGCTTT	CGCTGT	AAAA	GAGG	GAAGACAT	GCAAAAT	GAA	CGATGAGT	TACAAG	CCCGTCTGTGTGTGT	GCAGG					1267
SPARCI1-C1`SR	CCCCTGC	GAGAACTTT	CGCTGT	AAAA	GAGG	AAAGACAT	GCAAAAT	GAA	TGATGAGAACA	AA	CCCGTCTGTGTGTGT	GCAGG					1228
SPARCI1-C2`SR	CCCCTGC	GAGAACTTT	CGCTGT	AAAA	GAGG	GAAGACAT	GCAAAAT	GAA	CGAG	GAGAACAAG	CCCGTCTGTGTGTGT	GCAGG					1237

conservation	1260	1265	1270	1275	1280	1285	1290	1295	1300	1305	1310	1315	1320	1325	1330	1335	
SPARCI1`CI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	1338
SPARCI1`DR	AGCCGTC	GAGAATGT	CCTCC	CC	CAGTGT	AAAC	GATTTTG	AC	CATGTA	TGCGGA	ACTGACAATA	AAGACATAT	GACACAT	CCTGT			1275
SPARCI1`IP	ATCCTGC	CAGACTGT	CCTCC	AGGTCT	CAGT	GAGTTTG	AC	CATGT	TGT	TGGAAC	AGATAA	CCAGACTT	TATGACT	CATA	ACTGC		1296
SPARCI1`LW	AGCCGTC	GAGAATGT	CCTCC	CAGTGT	AAAT	GATTTTG	AC	CATGTT	TGCGGA	ACTGACAATA	AAGACATAT	GACACAT	CCTGT				1338
SPARCI1`PN	AACTGC	CAGACTGT	CCTCC	AAGTGT	CGCTG	AA	TTTG	AC	CATGT	TGT	TGGAAC	AGACA	CCAGACATA	CGACA	CTCCTGC		1266
SPARCI1`PP	AGCCGTC	GAGAATGT	CCTCC	CAGTGT	AAAT	GATTTTG	AC	CATGT	T	TGCGGA	ACTGACAATA	AAGACATAT	GACACAT	CCTGT			1290
SPARCI1-AM	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1041
SPARCI1-C1`CC	AGCCGTC	GAGAATGT	CCTCT	CAGTGT	AAAT	GATTTTG	AC	CATGTA	TGT	TGGAAC	AGACAATA	AAGACATAT	GACACAT	CCTGT			1311
SPARCI1-C2`CC	AGCCGTC	GAGAATGT	CCTCC	CAGTGT	AAAT	GATTT	AG	AC	CATGTA	TGCGGA	AC	AGACAATA	AAGACATAT	GACACAT	CCTGT		1335
SPARCI1-C1`SG	AGCCAT	CAGAATGT	CCT	ACCAGTGT	AAAT	GATTTTG	AC	CATGTA	TGT	TGGAAC	AGACAATA	AAGACATAT	GACACAT	CCTGT			1329
SPARCI1-C2`SG	AGCCGTC	GAGAATGT	CCTCC	CAGTGT	AAAT	GATTT	AG	AC	CATGTA	TGCGGA	ACTGACAATA	AAGACATAT	GACACAT	CCTGT			1329
SPARCI1-C1`SA	AGCCGTC	GAGAATGT	CCT	ACCAGTGT	AAAT	GATTTTG	AC	CATGTA	TGCGGA	ACTGACAATA	AAGACATAT	GACACAT	CCTGT				1329
SPARCI1-C2`SA	AGCCGTC	GAGAATGT	CCTCC	CAGTGT	AAAT	GATTT	AG	AC	CATGTA	TGCGGA	ACTGACAATA	AAGACATAT	GACACAT	CCTGT			1347
SPARCI1-C1`SR	AGCCGTC	GAGAATGT	CCT	ACCAGTGT	AAAT	GATTTTG	AC	CATGTA	TGCGGA	ACTGACAATA	AAGACATAT	GACACAT	CCTGT				1308
SPARCI1-C2`SR	AGCCGTC	GAGAATGT	CCTCC	CAGTGT	AAAT	GATTT	AG	AC	CATGTA	TGCGGA	ACTGACAATA	AAGACATAT	GACACAT	CCTGT			1317

conservation	1340	1345	1350	1355	1360	1365	1370	1375	1380	1385	1390	1395	1400	1405	1410	1415	
SPARCI1`CI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	1418
SPARCI1`DR	CAGCTCT	TTTGCCAC	GAAAGTGT	GGTCTT	GAT	TGGAACCA	AAATAGG	CCACAGACTT	CACTGGAC	TACACTGGAT	CCTGT	TAA					1355
SPARCI1`IP	CACCTTT	TTTGCT	TACCAAGTGT	GGTCTT	GAGGGA	ACCAAA	ATTAGGT	CACAGGCTT	CACTGGAC	TACACTGGAT	CA	TGCAA					1376
SPARCI1`LW	CAGCTCT	TTTGCCAC	CAAGTGT	AGCCTTG	ACGGGACCA	AAATAGG	CCACAGACTT	CACCTGGAC	TACACTGGG	TCCTGCAA							1418
SPARCI1`PN	CAGCTCT	TTTGCCAC	CAAGTGT	GGCCTTG	AGGGGACCA	AA	GAAAGGT	CACAA	ACTGCACCTGGAC	TACACAGGCT	CCTGCAA						1346
SPARCI1`PP	CAGCTCT	TTTGCCAC	CAAGTGT	AGTCTT	GACGGGACCA	AA	GTAGG	CCACAGACTT	CACTGGAC	TACTCTGGG	TCCTGCAA						1370
SPARCI1-AM	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1041
SPARCI1-C1`CC	CAGCTTT	TTTGCCACCA	AGTGTGGCCTT	GAGGGGACCA	AAATAGG	CCACAGACTT	CACCTGGAT	TACACTGGAT	CCTGCAA								1391
SPARCI1-C2`CC	CAGCTCT	TTTGCA	ACCAAGTGTGGCCTT	GAGGGGAC	AAATAGG	CCACAGACTT	CACCTGGA	ATACACTGGAT	CCTGCAA								1415
SPARCI1-C1`SG	CAGCTTT	TTTGCCACCA	AGTGTGGCCTT	GAGGGGACCA	AAATAGG	CCACAGACTT	CACCTGGAT	TACACTGGAT	CCTGCAA								1409
SPARCI1-C2`SG	CAGCTCT	TTTGCCACCA	AGTGTGGCCTT	GAGGGGACCA	AAATAGG	CCACAGACTT	CACCTGGAT	TACACTGGAT	CCTGCAA								1409
SPARCI1-C1`SA	CAGCTTT	TTTGCCACCA	AGTGTGGCCTT	GAGGGGACCA	AAATAGG	CCACAGACTT	CACCTGGAT	TACACTGGAT	CCTGCAA								1409
SPARCI1-C2`SA	CAGCTCT	TTTGCCACCA	AGTGTGGCCTT	GAGGGGACCA	AAATAGG	CCACAGACTT	CACCTGGAT	TACACTGGAT	CCTGCAA								1427
SPARCI1-C1`SR	CAGCTTT	TTTGCCACCA	AGTGTGGCCTT	GAGGGGACCA	AAATAGG	CCACAGACTT	CACCTGGAT	TACACTGGAT	CCTGCAA								1388
SPARCI1-C2`SR	CAGCTCT	TTTGCCACCA	AGTGTGGCCTT	GAGGGGACCA	AAATAGG	CCACAGACTT	CACCTGGAT	TACACTGGAT	CCTGCAA								1397

conservation	1420	1425	1430	1435	1440	1445	1450	1455	1460	1465	1470	1475	1480	1485	1490	1495	
SPARCI1`CI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	1498
SPARCI1`DR	ATTTATT	GCTCCATGT	CTAGAGT	CAGAACT	GGTGCAGTT	CCCTCTG	CGCATG	CGGGACTGG	CTGAAGA	ACGTGCTT	CTGC						1435
SPARCI1`IP	ATTTATT	CCACCATGT	CTGAAGAC	CAGAGCT	GATACATTTT	CCA	CTGCGCAT	GAGAGACT	GGCTGAAGA	AATGTGCT	GCTGC						1456
SPARCI1`LW	ATTTATT	GCTCCATGT	CTAGAGT	CAGAGCT	GGTGCAGTT	CCCTCTA	CGTATG	CGGGATTGG	CTGAAGA	AATGTGCT	CTGC						1498
SPARCI1`PN	ATTTAT	CCACCATG	CTGAGCA	CAGAACT	TGTGCAGTTT	CCA	CTTCGTAT	GAGGGACT	GGCTGAAGA	AATGTGCT	GCTGC						1426
SPARCI1`PP	ATATATA	.....	TACCT	ATTGGT	GTTTTAG	GATGTA	TTTT	CCAAAG	GAGATCT	CAACAAT	TGCTT	AGAAAT	TACAT	TT	TG		1444
SPARCI1-AM	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1041
SPARCI1-C1`CC	ATTTATT	CCTCCATGT	CCAGAGT	CA	GAGCTGGT	GCAGTT	CCCTCTG	CGTATG	CGGAGAT	TGGCTGAAGA	AATGTGCTT	TTGC					1471
SPARCI1-C2`CC	ATTTATT	CCTCCATGT	CCAGAGT	CA	GAGCTGGT	GCAGTT	CCCTCTG	CGTATG	CGGGAGAT	TGGCTGAAGA	AATGTGCTT	CTGC					1495
SPARCI1-C1`SG	ATTTATT	CCTCCATGT	CCAGAGT	CA	GAGCTGGT	GCAGTT	CCCTCTG	CGTATG	CGGAGAT	TGGCTGAAGA	AATGTGCTT	TTGC					1489
SPARCI1-C2`SG	ATTTATT	CCTCCATGT	CCAGAGT	CA	GAGCTGGT	GCAGTT	CCCTCTG	CGTATG	CGGGAGAT	TGGCTGAAGA	AATGTGCTT	CTGC					1489
SPARCI1-C1`SA	ATTTAT	CTTCCATGT	CCAGAGT	CA	GAGCTGGT	GCAGTT	CCCTCTG	CGTATG	CGGAGAT	TGGCTGAAGA	AATGTGCTT	TTGC					1489
SPARCI1-C2`SA	ATTTATT	CCTCCATGT	CCAGAGT	CA	GAGCTGGT	GCAGTT	CCCTCTG	CGTATG	CGGGAGAT	TGGCTGAAGA	AATGTGCTT	CTGC					1507
SPARCI1-C1`SR	ATTTATT	CCTCCATGT	CCAGAGT	CA	GAGCTGGT	GCAGTT	CCCTCTG	CGTATG	CGGAGAT	TGGCTGAAGA	AATGTGCTT	TTGC					1468
SPARCI1-C2`SR	ATTTATT	CCTCA	AATGTCC	AGAGTCC	GAGCTGGT	GCAGTT	CCCTCTG	CGTATG	CGGGAGAT	TGGCTGAAGA	AATGTGCTT	CTGC					1477

	1500	1505	1510	1515	1520	1525	1530	1535	1540	1545	1550	1555	1560	1565	1570	1575	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
SPARCI1`CI	AGTTATATGAA	CATGAC	TCCATGTCTCCTGGCTTTCTCACAGCTAAACAAAG	AATCAGGGTT	CAGAAGAT	T	TATGAGAGT										1578
SPARCI1`DR	AGTTATATGAG	CATGAC	TCCATGTCTCCTGGCTTTCTCACAGCTAAACAGAGA	AATCAGGGTT	CAGAAGAT	T	TATGAGAGC										1515
SPARCI1`IP	AGCTCTACGAA	CAAGAC	.....TTCTTACAGCCAAGCAGAGAT	CCAGAGTT	CAGAAGAT	G	TACGAGAA										1521
SPARCI1`LW	AGTTATACGAG	CATGAC	TCCATGTCTCCTGGCTTTCTCACAGCTAAACAAAG	AATCAGGGTT	CAGAAGAT	T	TATGAGAGC										1578
SPARCI1`PN	AGCTCTATGAG	CACGAC	TCAGTGACTCCTGGCTTCTCACAGGCAAGCAGAG	AGCCAGGGTT	CAGAAG	C	TGATGAGAA										1506
SPARCI1`PP	TTTAGCAAGA	CACAAA	GTCTCAGAGGAGGCAG...ATGAA	ACTATGGAGG	AG	GATGA	AGGTCCAGAAA	AA	AGACAAA	AGA	A						1521
SPARCI1-AM																	1041
SPARCI1-C1`CC	AGTTATATGAG	CATGAA	TCCATGTCTCCTGGCTTTCTCACAGCTAAACAAAG	TATCAGGGTT	CAGAAGAT	T	TATGAGAGT										1551
SPARCI1-C2`CC	AGTTATATGAG	CATGAA	TCCATGTCTCCTGGCTTTCTCACAGCTAAACAAAG	AATCAGGGTT	CAGAAGAT	T	TATGAGAGT										1575
SPARCI1-C1`SG	AGTTATATGAA	CATGAA	TCCATGTCTCCTGGCTTTCTCACAGCTAAACAAAG	TATCAGGGTT	GAGAAGAT	C	T	TGAGAGT									1569
SPARCI1-C2`SG	AGTTATATGAG	CATGAA	TCCATGTCTCCTGGCTTTCTCACAGCTAAACAAAG	AATCAGGGTT	CAGAAGAT	T	TATGAGAGT										1569
SPARCI1-C1`SA	AGTTATATGAA	CATGAA	TCCATGTCTCCTGGCTTTCTCACAGCTAAACAAAG	TATCAGGGTT	CAGAAGAT	C	T	TGAGAGT									1569
SPARCI1-C2`SA	AGTTATATGAG	CATGAA	TCCATGTCTCCTGGCTTTCTCACAGCTAAACAAAG	AATCAGGGTT	CAGAAGAT	C	T	TGAGAGT									1587
SPARCI1-C1`SR	AGTTATATGAA	CATGAA	TCCATGTCTCCTGGCTTTCTCACAGCTAAACAAAG	TATCAGGGTT	CAGAAGAT	C	T	TGAAAGT									1548
SPARCI1-C2`SR	AGTTATATGAG	CATGAA	TCCATGTCTCCTGGCTTTCTCACAGCTAAACAAAG	AATCAGGGTT	CAGAAGAT	T	TATGAGAGT										1557

	1580	1585	1590	1595	1600	1605	1610	1615	1620	1625	1630	1635	1640	1645	1650	1655	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
SPARCI1`CI	GAGAGGCGT	CTTCATGCAGGCGATCACA	CCCGGAGCT	TTCTACAGCAGGACTTTGAGAAGAACTACAACATGTACATCTA													1658
SPARCI1`DR	GAGAGACGT	CTTCATGCAGGAGATCACCC	TGTTGAAATTCTG	CAGCAGGACTTTGAGAAGAACTACAACATGTACATCTA													1595
SPARCI1`IP	GAGAGGCGT	CTCCATGCAGGCGATCACCC	AGTTGAGCT	CCTTGCTCGGACTTTGAAAAGAA	TTACAACATGTACATA	ATA											1601
SPARCI1`LW	GAGAGGCGT	CTTCATGCAGGCGATCACCC	GTCTAGCTTCTACAGCAGGACTTTGAGAAGAACTACAACATGTACATCTA														1658
SPARCI1`PN	GAGCGGCGT	CTCCATGCAGGGGAC	CATTCCATTGAATTGCTGGCTCAGGACTTTGAGAAA	AAACTAC	CCTATGTACATCTA												1586
SPARCI1`PP	TTAAGGAGA	CTGAGG.....	AGGAGGAGG	GAAAGGAA	AAGGGAGAA	TCTACAATG	GAGAATGA	AAGATGTA	ACTGAG								1592
SPARCI1-AM																	1041
SPARCI1-C1`CC	GAGAGACGT	CTTCATGCAGACGATCACCC	CGTTGAGATTCTACAGCAGGACTTTGAGAAGAACTACAACATGTACATCTA														1631
SPARCI1-C2`CC	GAGAGACGT	CTTCATGCAGGCGATCACCC	TGTTGAACTTCTACAGCAGGACTTTGAGAAGAACTACAACATGTACATCTA														1655
SPARCI1-C1`SG	GAGAGACGT	CTTCATGCAGGCGATCACCC	CGTTGAGATTCTACAGCAGGACTTTGAGAAGAACTACAACATGTACATCTA														1649
SPARCI1-C2`SG	GAGAGACGT	CTTCATGCAGGCGATCACCC	TGTTGAACTTCTACAGCAGGACTTTGAGAAGAACTACAACATGTACATCTA														1649
SPARCI1-C1`SA	GAGAGATGT	CTTCATGCAGGCGATCACCC	TGTTGAGATTCTACAGCAGGACTTTGAGAAGAACTACAACATGTACATCTA														1649
SPARCI1-C2`SA	GAGAGACGT	CTTCATGCAGGCGATCACCC	TGTTGAACTTCTACAGCAGGACTTTGAGAAGAACTACAACATGTACATCTA														1667
SPARCI1-C1`SR	GAGAGACGT	CTTCATGCAGGTGATCACCC	CGTTGAGATTCTACAGCAGGACTTTGAGAAGAACTACAACATGTACATCTA														1628
SPARCI1-C2`SR	GAGAGACGT	CTTCATGCAGGCGATCACCC	TGTTGAACTTCTACAGCAGGACTTTGAGAAGAACTACAACATGTACATCTA														1637

	1660	1665		1670	1675	1680	1685	1690	1695	1700	1705	1710	1715	1720	1725	
conservation	*****	*****		*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
SPARCI1`CI	TCCAGT	G.....		CACTGGCAGTTTGCACAA	AATGGACCA	A	CATCCTT	CAGACAG	GTTTCTT	A	CTCACTCTGAGCTGG					1729
SPARCI1`DR	TCCAGT	G.....		CACTGGCAGTTTGCACAGATGGACCA	G	CATCCTT	CAGACAG	GTTTTT	TG	A	CTCACTCTGAGCTGG					1666
SPARCI1`IP	CCCAGT	G.....		CATTGGCAGTTTGCACAA	AATGGACCA	A	CATCC	ATCAGACAG	GTTTCT	G	TCTCACTCAGAGCTTG					1672
SPARCI1`LW	TCCAGT	G.....		CACTGGCAGTTTGCACAA	AATGGACCA	A	CATCCTT	CAGACAG	GATTCTTT	TCTCACTCTGAGCTGG						1729
SPARCI1`PN	TCCT	GTG.....		CACTGGCAGTTTCGGC	CAGATGGAT	CAG	CATCC	ATCAGACAG	GTTTCT	G	TCTCACTCGGAGCTGG					1657
SPARCI1`PP	AAG	AGTGAAGATATCT		CACAGG	AAAA	TAGCTTCT	ATGGA	AAA	ATTCT	TAA	AGTGT	AAG	ATTCTTTCTCACTCTGAGCTGG			1672
SPARCI1-AM																1041
SPARCI1-C1`CC	TCCAGT	G.....		CACTGGCAGTTTGCACAGATGGACCA	G	CATCCTT	CAGACA	A	GTTTCTTTTCTCACTCTGAGCTGG							1702
SPARCI1-C2`CC	TCCAGT	T.....		CACTGGCAGTTTGCACAGATGGACCA	G	CATCCTT	CAGACAG	GTTTCTTTTCTCA	TTCTGGAGCTGG							1726
SPARCI1-C1`SG	TCCAGT	G.....		CACTGGCAGTTTGCACAGATGGACCA	G	CATCCTT	CAGACA	A	GTTTCTTTTCTCACTCTGAGCTGG							1720
SPARCI1-C2`SG	TCCAGT	T.....		CACTGGCAGTTTGCACAGATGGACCA	A	CATCCTT	CAGACAG	GTTTCTTTTCTCA	TTCTGAGCTGG							1720
SPARCI1-C1`SA	TCCAGT	G.....		CACTGGCAGTTTGCACAGATGGACCA	G	CATCCTT	CAGACA	A	GTTTCTTTTCTCACTCTGAGCTGG							1720
SPARCI1-C2`SA	TCCAGT	T.....		CACTGGCAGTTTGCACAGATGGACCA	A	CATCCTT	CAGACAG	GTTTCTTTTCTCA	TTCTGAGCTGG							1738
SPARCI1-C1`SR	TCCAGT	G.....		CACTGGCAGTTTGCACAGATGGACCA	G	CATCCTT	CAGACA	A	GTTTCTTTTCTCACTCTGAGCTGG							1699
SPARCI1-C2`SR	TCCAGT	T.....		CACTGGCAGTTTGCACAGATGGACCA	A	CATCCTT	CAGACAG	GTTTCTTTTCTCA	TTCTGAGCTGG							1708

	1730	1735	1740	1745	1750	1755	1760	1765	1770	1775	1780	1785	1790	1795	1800	1805	
conservation	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
SPARCI1`CI	CTCCGCTGCGCGTTCC	ACTG	GTTCCCATGGAGCATTGCACCTCAGTCTTTTTTCCAAA	AGTGTGATGCG	GACAAGGACAAA												1809
SPARCI1`DR	CTCCGCTGCGCGTTCC	TCTAGTTCCCATGGAGCATTGCACCTCAGTCTTTT	TCAAAATG	TGTGATGCG	GACAAGGACAAA												1746
SPARCI1`IP	CTCCTCTGCGTG	CCCCCTCTG	GTTCCATGGAGCACTGCATTCAGT	TTTTTTCCACG	AGTGTGATGCG	GACAAGGACAA	G										1752
SPARCI1`LW	CTCCTCTGCGGTTCC	CTGGTTCCCATGGAGCATTGCACCTCTGTCTTTTTTCCAG	AGTGTGATGCTG	GACAAGGACAAA													1809
SPARCI1`PN	CTCCTCTGCGTG	TTCATTGGTTCCCATGGAGCATTGCAC	TTTTCAGTCTTTTTTCCAGGA	ATGCGACG	GACAAGGACAA	G											1737
SPARCI1`PP	CTCCTCTGCGCGTTCC	CTGTTCCCATGGAGCATTGCACCTCTGTCTTTTTTCCAAA	AGTGTGATGCTG	GACAAGAACAAA													1752
SPARCI1-AM																	1041
SPARCI1-C1`CC	CTCCACTGCGCGT	CCCCCTAGTTCCA	AATGGAGCATTGCACCTCAGTCTTTTTTCCAAA	AGTGTGATGCTG	GACAAGGACAAA												1782
SPARCI1-C2`CC	TTCCATTGCGGG	TCCCCCTAGTTCCA	AATGGAGCATTGCACCTCAGTCTTTTTTCCAAA	AGTGTGATGCTG	GACAAGGACAAA												1806
SPARCI1-C1`SG	CTCCACTGCGCGT	TCCCCCTAGTTCCA	AATGGAGCATTGCACCTCAGTCTTTTTTCCAAA	AGTGTGATGCTG	GACAAGGACAAA												1800
SPARCI1-C2`SG	CTCCACTGCGCGT	TCCCCCTAGTTCCA	AATGGAGCATTGCACCTCAGTCTTTTTTCCAAA	AGTGTGATGCTG	GACAAGGACAAA												1800
SPARCI1-C1`SA	CTCCACTGCGCGT	TCCCCCTAGTTCCA	AATGGAGCATTGCACCTCAGTCTTTTTTCCAAA	AGTGTGATGCTG	GACAAGGACAAA												1800
SPARCI1-C2`SA	CTCCACTGCGCGT	TCCCCCTAGTTCCA	AATGGAGCATTGCACCTCAGTCTTTTTTCCAAA	AGTGTGATGCTG	GACAAGGACAAA												1818
SPARCI1-C1`SR	CTCCACTGCGT	TGTTCCCCCTAGTTCCA	AATGGAGCATTGTACCTCAGTCTTTTTTCCAAA	AGTGTGATGCTG	GACAAGGACAAA												1779
SPARCI1-C2`SR	CTCCACTGCGCGT	TCCCCCTAGTTCCA	AATGGACATTGCACCTCAGTCTTTTTTCCAAA	AGTGTGATGCTG	GACAAGGACAAA												1788

	1810	1815	1820	1825	1830	1835	1840	1845	1850	1855	1860	1865	1870	1875	1880																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
conservation	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
SPARCI1`CI	CT	A	G	T	C	T	C	C	T	T	C	A	A	G	A	G	A	G	T	A	T	G	G	A	T	A	T	G	G	A	T	A	T	G	T	T	C	T	G	A	1884																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
SPARCI1`DR	CT	G	G	T	C	T	C	C	T	T	C	A	A	G	A	G	T	G	C	A	G	C	T	G	C	T	T	T	G	G	C	A	T	A	A	G	A	G	A	G	A	T	A	T	G	A	A	T	A	T	G	A	1821																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
SPARCI1`IP	CT	A	C	T	C	T	C	T	T	T	C	A	G	G	A	G	T	G	G	T	G	C	A	G	T	G	T	T	T	C	G	G	C	A	T	A	A	G	A	T	G	A	G	A	T	A	T	G	A	1827																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
SPARCI1`LW	CT	T	G	T	C	T	C	C	T	T	C	A	A	G	A	G	T	G	C	A	G	C	T	G	C	T	T	T	T	G	G	C	A	T	A	A	A	G	A	G	A	T	A	T	G	A	T	T	A	T	G	A	1884																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
SPARCI1`PN	CT	G	G	T	C	T	C	C	T	T	C	A	G	G	A	G	T	G	G	T	G	C	C	A	A	T	G	T	T	T	C	G	G	C	A	T	A	A	G	A	G	A	T	A	T	G	A	T	A	T	G	A	1812																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
SPARCI1`PP	CT	A	G	T	C	T	C	C	T	T	C	A	A	G	A	G	T	G	C	A	G	C	T	G	C	T	T	T	T	G	G	C	A	T	A	A	A	G	A	G	A	T	A	T	G	A	T	T	A	T	G	A	1827																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
SPARCI1-AM																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

- ☒ non conserved
- ☒ ≥ 55% conserved
- ☒ ≥ 85% conserved