

SSR	Scaffold	Primer 1	Primer 2	Length
SSR_10	scaffold_169	TGGAGTTGTTTCTTGGGTC	CTCACATTGCTCCTGCCATA	216
SSR_818	scaffold_169	ACATTTGCTATTATCAAGAATATAGGG	TTCTTGGACCTCACAACTCCTTT	199
SSR_974	scaffold_116	attccactcaccctccactg	cttcacttttccgggtccac	275
SSR_1166	scaffold_116	ggcagatcataaagttggg	ctcaagcattgcaaaaatgg	194
SSR_39	scaffold_173	CCACCGTAGCACCACCTAAT	GATCGATAAGGGTCTAGCCG	219
SSR_578	scaffold_173	ACGAAGAAGAAGCATCCGAA	AACTCCTCCTCCTCCCTCTG	260
SSR_107	scaffold_98	agtgtgagagcagcatcaa	tgtggagatttgcacccttc	212
SSR_12	scaffold_98	agttttcagccccaccatc	accagccaaaattggacaag	178
SSR_25	scaffold_117	CTGCGATTGTGCGATTGCCTTG	CCAGAACTTAACCAAACCTTCTCCGCA	167
SSR_55	scaffold_117	TGGCTGAAGCGTTTTAGGTT	AAGCACCTTCCATAACGTCG	167
SSR_289	scaffold_103	ttagggtagcgcatttcacc	caactctgctctcccacctc	232
SSR_168	scaffold_53	gggcaagagaggaaggagat	agcagctgaaccaaggaaaa	262
SSR_42	scaffold_83	AGCTGGGTTTCTGTCAAACG	GCCACAACATAAGAGCAGCA	143
SSR_506	scaffold_124	AGAAGTGATCGGTGGTTTG	GATGCCACAAAACCTTTTCC	276
SSR_991	scaffold_124	agcacatcctgatacagccc	atgcaccgaatggagaaaaac	188
SSR_508	scaffold_211	cttctctaccgggtcaagc	ccacaccttttccctcaaa	207
SSR_1068	scaffold_102	TTCTGCTGCATGCAAACCTCT	TAGGGCTTGTGAGTGCAGTG	140
SSR_849	scaffold_247	CATACAGGGGAAATTGTGGC	TCCAATGGTTCATGGATTT	119
SSR_849	scaffold_102	CATACAGGGGAAATTGTGGC	TCCAATGGTTCATGGATTT	119
SSR_554	scaffold_110	CTTGACAGAGTCCCGCTTTC	TGCAATCTGTGGGCTCTTG	247
SSR_554	scaffold_184	CTTGACAGAGTCCCGCTTTC	TGCAATCTGTGGGCTCTTG	247
SSR_54	scaffold_110	ACGTGTGTGTTCCGACAGGAG	CACACCCAAAATACCGACC	152
SSR_27	scaffold_114	TCACTGGCAAGACATTTAGAAACCCA	GGACATTGTGAGCTAGGGAATGCA	210
SSR_709	scaffold_8	CTTCGATTTCCCTTTTTTCC	ATTCCGATGGCGATAGTGAG	257
SSR_401	scaffold_114	gcggtatgatgtttgcagtaa	aggcattattgaacaagtttga	280
SSR_485	scaffold_114	gcacgtccagggaagagtt	cctggaccaccactctgtt	193
SSR_187	scaffold_184	aacacctttcaccaccttgc	tgccatgtccaagtctgta	184
SSR_127	scaffold_8	ggcgagtgcaagaataag	gtgcttctcctccaagagc	260
SSR_61	scaffold_114	cagagtgtcactggcaaga	tggagtttgggaccttgag	276
SSR_1167	scaffold_62	gagcagcaagacaacagcaa	gctcagggcaagaacaaatc	134
SSR_86	scaffold_364	AGGACTAACCGGTTGCAATG	GCAACTGAAGCGAAAGGAAC	186
SSR_538	scaffold_39	gtcaacggtcgaaacctgt	aagctttcaatgactccaga	216
SSR_266	scaffold_39	ctcgcaatcttactcctccg	caagaagcgccatattcat	177
SSR_90	scaffold_84	TCAACGACCCAACTCACAAA	ACAAGCATTCTTGGCTTTCC	163
SSR_723	scaffold_84	GTTGCACGAGAAGCTGATA	TCCTTTCTGCCACAGTAGC	172
SSR_178	scaffold_84	ctagtgggacggctgtcttc	aaaagaaaacttggcgctga	135
SSR_59	scaffold_38	ATGTCGAGCAGCTGAGTGTG	ATCCCTATCACGAAACGCAC	214
SSR_447	scaffold_29	CATTGGCATTGAAATTGTGC	CCCTTGAGAGCGAATGAGAG	254
SSR_517	scaffold_230	ttgcccttctggaattgt	ggttgggaatgagaaatgga	269
SSR_874	scaffold_139	attacagctgggtcactggg	gcgctctcattgcatattt	163
SSR_145	scaffold_38	acgagtccatttgacgact	ccgttttgcaacaacacaca	114
SSR_72	scaffold_540	tgggttctaggggtgattgc	ggaaacaaagatcgggtcgaa	234
SSR_76	scaffold_44	GTCGAAAATCACCACTGCAA	TCACTGCAGCAGCTTGACT	247
SSR_99	scaffold_400	CATCATCGCATCATCGAATC	CCGAATACTCCTCCCTCCTC	271
SSR_391	scaffold_42	GCCTCTCCTCTCCTCTCCTC	TCATTACACAATTGTCTATTCCA	243
SSR_93	scaffold_75	TAGGGGAGTGGAGTGGACTG	ACCAAGTCTGGAACAACCG	155
SSR_689	scaffold_42	TAGTCGACACGAGGAGGGTT	ACTCTCCAGCATCACCTGCT	263
SSR_101	scaffold_87	CTGCGGAGCCTAAATCTTG	TTTCGCCTCATTGGAACCT	134
SSR_875	scaffold_87	gggaggtggagtgagtgaga	tcgtctgcagagcaaaaaga	280
SSR_762	scaffold_207	ataggttgtgtcaggtggc	gtgagtgctgacagggcgag	184
SSR_142	scaffold_42	tccacgttttaggtctgtccc	tccctcctcacacacttc	155
SSR_141	scaffold_69	catcgagaaaattggggaga	cttcacctcagaccttcg	251
SSR_800	scaffold_7	ACAGGGTACAAGTTCCGGTG	GAATGAATCCGAGCAGAAGC	164
SSR_68	scaffold_7	aaaatgacgagatattgcccag	aataatgttgcattggaataatg	244
SSR_22	scaffold_172	GCCTGCCACCCATGTAGACAA	CGTTGAGTACTGGAATGCCGATCATC	198
SSR_672	scaffold_172	ACACTCACTATGGGAACGGC	ACGGCAAGTTTCTGTCAAG	262
SSR_1017	scaffold_433	CCGCAGCATTACAACTTGA	TGTCAGGGCTCCTTGAAACT	250
SSR_796	scaffold_254	TGACTCGGGCAAGTCTTTCT	GAATCCAACCTCCGTAGCCA	280
SSR_923	scaffold_20	tgccactactgcaacgtctc	acaacacgtgcagagcata	277
SSR_194	scaffold_519	gagagacctcgtcgtcgtg	tgctcctctgtaccactt	143
SSR_670	scaffold_414	cttccggagtgtggtgga	cctcctgaaactccaccaga	243
SSR_837	scaffold_296	AGAAGGAGTTGCTGCGACAT	GTGTGTGCAAGTTGGGTTCTC	187
SSR_15	scaffold_1	TTTTGATGGTGGGTATGGGT	AAGGGCTGGCTTAGTGAAT	278
SSR_1079	scaffold_1	GGCATAATAATTTGACGCCG	AAAATTTTGGCGGAGGAGTT	107
SSR_675	scaffold_1	gggagggactggatcatgta	tcatcatcccctctggtgac	160

SSR_244	scaffold_1	agtgggtgaggcttgagaga	ccttaacgtgctggacaca	152
SSR_28	scaffold_138	AAGGCGTGCCAGGAAGTACCA	GCGACGTCCGTCAATCCGAA	217
SSR_154	scaffold_138	ggccaggaagtaccagaaca	gtccgcaattccgaacaac	205
SSR_494	scaffold_256	CCTGGGGACCTGCTATACAA	GCAAGTGAACGATAACAGA	203
SSR_525	scaffold_149	cccacacaattgtcactgc	gccccatgtatcctacctt	207
SSR_60	scaffold_159	gtcctggacgcaagcaag	ctgcaaaattccccacc	124
SSR_164	scaffold_217	tttgaggctgattgttc	caactctcccacctcttcc	113
SSR_1100	scaffold_159	caactccaagctctctgctc	ctccgatgctactgagctc	231
SSR_581	scaffold_335	AAAGATGACAGCACCGAACC	CTTCATGTTCCGAGTTGGCT	239
SSR_45	scaffold_455	GCAAGCTAGAAGTCATGGGC	ACGTCCACGAGGAAGAACAC	230
SSR_1070	scaffold_303	TTCCCGACGTATTAAGTGGC	AGGCCAGCAGCAACAGTTAT	242
SSR_91	scaffold_109	GTGTCCGTGCTATCCACCTT	CCATGTCTCCTGTTCTGCAA	236
SSR_808	scaffold_300	gcagtcaccgcacacttaaa	tgcttccacctccatttag	116
SSR_697	scaffold_128	TTGCTTGTGTTGCTTTCGTGC	AAAGAAGCGGACAGGTCAGA	240
SSR_1069	scaffold_246	TTCCCTCCCATATAACTCCC	GCCGAACGAACGAACTAGAC	262
SSR_948	scaffold_70	GCATTGTGTCAACGATCACC	TTTGGGTGCTCAGAGAGGTT	107
SSR_708	scaffold_56	GGTGTTTAGTGATCGGCGTT	TGATTCAAGCATATGAGAAATTG	205
SSR_582	scaffold_70	GTAGCAGCATCGACTCCTC	CGGAGAACCTGGAAGAATGA	257
SSR_824	scaffold_352	tcctgctgaccacctctct	gaatcggagaattttggca	141
SSR_133	scaffold_246	agccttaacatcaacgcccac	actctccccacacacaaaag	168
SSR_207	scaffold_70	cattctcttccccttcaca	tcacactctctatctctctccc	216
SSR_325	scaffold_91	gacgatgacgagaagcacia	tgatcatactggagcgcaa	188
SSR_1090	scaffold_70	ccgttatccacctaaggaaa	gcacatggtgactgtgta	184
SSR_807	scaffold_18	AGGAACCAAGTCCCTTTGCT	CGGCAACACTTTCACATCAC	159
SSR_826	scaffold_196	ATCGAACCGTTCCCTTTGTG	GGAAGGCAAGCAGGTACAAG	225
SSR_1142	scaffold_387	GACTGGCAAGTCCCAGACAT	AGAGATCAGAGAAGCGTCCG	257
SSR_123	scaffold_73	gatcgggagtttagagcc	atactctcggagcgagcac	237
SSR_806	scaffold_69	CATCGTGATTCTGCACTGCT	TTCCGCAAGACATGATGAAG	229
SSR_1120	scaffold_69	TTGAGGGGTGGAGAAGTTTG	CAGCAGGTGAACACAGGAGA	236
SSR_927	scaffold_69	aaagcaaaataagagattgacaaaa	tgagtgaatatattggccctaaaa	270
SSR_850	scaffold_59	TGAAGCCAGTAGATGACCCC	TTGAACGAGACCAAAGGGAG	225
SSR_152	scaffold_59	ctgaggccagtttccatgat	acacatgcacacaccagcac	182
SSR_634	scaffold_133	GGTAGCTTCAGCGAAAGACG	ACTGCAATGGAAGGGAGAA	245
SSR_490	scaffold_133	ATTCCGAGAGAAGATCACGC	CGAATGGTAAGGGCAGAAAA	158
SSR_104	scaffold_107	ttcaggcagtaacgtgtcca	ggaatcaacaaggtctcc	164
SSR_219	scaffold_305	ggaaggtctgagggagat	atgccttctgactacggttc	135
SSR_239	scaffold_158	tctgtggtggtggtgat	tagcaattggcaaatacgca	245
SSR_149	scaffold_182	ccggtggacgtgactagagta	catcacatcacaccgctac	242
SSR_172	scaffold_421	tccaagggagtgagattg	aaaactgtgtatagacatcaacaaa	126
SSR_773	scaffold_5	caccatctcaccacctct	cttccagtttgcctgttcc	269
SSR_150	scaffold_134	CTACTGCTGTTTGCCCAT	AATAAATCCCCTCCGACACC	160
SSR_759	scaffold_134	gatttagccccacaaaacga	tttgaattttccgactcc	184
SSR_775	scaffold_251	TGTGTAGCAGAGAAATGGCG	CCCTCGGATTGAATAACAT	196
SSR_983	scaffold_275	GCCAGTTTGTGTTTCGGATT	AATATACCGAAGACACGGCG	236
SSR_789	scaffold_162	CCAGCTGAAACACACTTCA	AACTGGGCAGAATACATCGG	183
SSR_925	scaffold_266	ccaaatctcatgactgtaacaa	ttgccttttgtgctatcc	213
SSR_159	scaffold_162	ctggaggggctacaattcaa	tgattggaatggcaggtt	183
SSR_732	scaffold_47	CTCGGATACACCAACACAG	ATGCAAACCACACATCCAGA	111
SSR_153	scaffold_47	gcaggagatggtggagta	aaagaagcgagcatcaaat	225
SSR_781	scaffold_15	ATTAAGCGCGGAGAATCAA	ACTGTTTTCCGCAATCCAAC	167
SSR_938	scaffold_302	ctaaatgctgattgcatgg	ccagtgacaaatcggaact	117
SSR_229	scaffold_24	cagcaaatgagcgtagcac	acaaattctccatgtccgc	153
SSR_181	scaffold_29	tttactctgctgcgctgg	cagtggtggaacaaacag	233
SSR_182	scaffold_220	fgcggcttcattactgttg	gcatcaaaacaaaaacacagc	275
SSR_671	scaffold_220	ttctccacctcactgtct	catgggggcaacagttattt	259
SSR_117	scaffold_74	atgctgctgctgattttcc	gaggtcctctccctgag	256
SSR_203	scaffold_25	atacgtgcagacgtgttg	gtattcccaggagcaatga	124
SSR_592	scaffold_101	CACACCGCAAGTTCAAAATG	GTCGAGGAGGAGGAGGAGG	254
SSR_1072	scaffold_101	GCGTCTTGCTTACCTTTTC	CCAGTTCCTACGAAAACCA	204
SSR_798	scaffold_101	CGGCATAAAGAGGAAACCAA	GACCCAAATTCAGTTGGCAG	234
SSR_586	scaffold_504	CTGGAACCCATTCAACCTC	CCCTCGTCTTCTTGTCT	260
SSR_797	scaffold_101	TTTTCATCTCCCCTCTCCT	GCCACTGCACCAAAAACCT	239
SSR_787	scaffold_403	GAAGGGAGGAGACGGGATAG	CGTCGTTCTTTCGCATGTA	184
SSR_915	scaffold_101	GCATGTGTTCCGTTGATTAG	CACCCGTTCTTCTTCTTCA	183
SSR_183	scaffold_101	ccatacaaaagcgaaggaa	tctctccctccctcttacc	143
SSR_1101	scaffold_177	GCGAGGATCTGAGTTGCTC	AAGCCATCGACAGTGAACC	227

SSR_588	scaffold_177	ccccttcattccatttct	ctcgagatcgagatggatgg	265
SSR_199	scaffold_478	tgattccttccccaaagagtg	ggggcccgacttagtaagaa	211
SSR_816	scaffold_14	cggtttcccttttctctcc	aatcccccttcacacacagc	157
SSR_700	scaffold_195	ttgcaagtaccacgcattct	tcaacctccctcctcgac	193
SSR_185	scaffold_177	gtcaacgggtgtctgtcct	agccacacatccaagcaact	163
SSR_809	scaffold_168	CGAGTCTTCCCTTTCTGTGG	CCAGGGCGAGAATATACCAA	249
SSR_499	scaffold_57	CGCTTACTGCTTTCCAATC	TGAACTGGGTCAACAACCAA	148
SSR_1184	scaffold_129	cactctcccatgcagtcga	tgggtggaatgtggaaggaa	140
SSR_198	scaffold_57	ctgctcgccctgatctggt	gctgcatgctgaggtgaaa	270
SSR_728	scaffold_57	ctggcacaaccaggattttt	taagcaagtgtgtgccag	241
SSR_1123	scaffold_121	GAAGGATTTGGAGGAGGAGG	CCCTTCGGAACACGAAATTA	114
SSR_253	scaffold_12	ctgcaattcgcttgttacg	gaaaatcggagtgcgaaaa	101
SSR_488	scaffold_99	TGCTCACAGGAGACACCAAG	GAAGCAGAAGAAGAAGGCGA	267
SSR_421	scaffold_359	TAGTTGAAGTTGCCGTGTGC	ACGCCTGAAGAAAAACGAAA	176
SSR_641	scaffold_253	ccgaatagcctgtgaggatt	tggctgagccctaaaacagt	168
SSR_1061	scaffold_66	gacgcagtgaaacctggct	tgaataaaggcgagaagagg	135
SSR_603	scaffold_203	GCACGTGACGATCCTGTAGT	GGTTGCATATTTCCATGGTC	216
SSR_1092	scaffold_314	TGGTAAAGGGACGGACAAAG	TTGTTGAGTGGATCGCTACG	274
SSR_1073	scaffold_273	CGTGGCTATGACCCTCTCTC	TGGTGGTAGATGATGCAGGA	264
SSR_389	scaffold_188	AGCTGAGGAAGGAAGTGCAAG	CCATGTAATCCTCATGCCCT	264
SSR_598	scaffold_278	AATCCTGCTGCCATGAGTTT	TTCACGCAGCGATTAGAAGA	234
SSR_431	scaffold_30	GCCCTCTTTGTTGATGGTTC	CCAAGGAATAACTTAGAATGGGG	236
SSR_819	scaffold_358	ACTGATACTTGCTGCCCTGC	ATTGCGACACAAGCAACAAC	259
SSR_788	scaffold_322	GGCATTGAGATCCAGCAAGT	CCACTTCTCCGTCCCTACA	223
SSR_747	scaffold_141	TTGAGCTGGATCTGCAAGAG	ATGAACCCAGGCATAACTGC	110
SSR_510	scaffold_58	GGGTGCTCTTGACACCTGAT	AAACAACTCCGCTACCCCT	265
SSR_713	scaffold_58	GTTTTGGTGACCAGGCGTAT	TCACAAATAGCCCATCCCTC	121
SSR_516	scaffold_58	TTGTGTGTTTAGGCCAGTCG	AGCAGCCACAACAACAACAG	167
SSR_678	scaffold_58	CGTGAATTGAGGCTGCAGTA	CTGAACGCCTCCTTGAACTC	244
SSR_609	scaffold_293	tagtgaaggaagggggttt	gcaaatcaagcagggagaag	279
SSR_717	scaffold_58	gcagggtttagttggcat	ccctaccttccactgacga	204
SSR_1084	scaffold_141	gcaaggtctgtaggatga	ggctccttattcttgggagg	278
SSR_765	scaffold_71	CATTGAAAAGGCTGGGAGAA	CTCCTCGTTTTCTGCTACGG	271
SSR_513	scaffold_225	ATTGGGTGCTCTTTCAGGTG	ATTTTTGCGAACGATTGGAG	234
SSR_568	scaffold_92	CAAAAAGAATGGGTGGAGGA	CATCTTGCTTTGCTCACCA	279
SSR_693	scaffold_100	TCAACGCAAACGTCAACTTC	TTGCACGAATGGCTACAGTC	272
SSR_616	scaffold_210	GCATGATCACAAAACGATG	GGAAGGAACGAAGGAAGAGG	206
SSR_778	scaffold_82	GCATCAAACATGCATCCACT	TGTTTCCCACTCACCATGAA	271
SSR_680	scaffold_401	GTCTGGTTGTGTTGCTCAGG	TGTCAGCCTCGTTACATTG	120
SSR_1060	scaffold_167	aaccgacctggctcctctat	tttcttccctccggatct	209
SSR_754	scaffold_21	TCTCATTGTGTCAGCAAACCA	CTCGTGTCCATAAGCACCT	235
SSR_756	scaffold_21	catcaaagcttcaacgggt	gtgcaagtggcacaatgct	179
SSR_1067	scaffold_304	TCTTCTTCTCTGGCGGTGTT	TGGGTGAGGAGGTTTGACTC	220
SSR_752	scaffold_76	TTCATCTTTTGACGGCACAC	TAGTCCATCCATCGCTCTT	227
SSR_1094	scaffold_90	CAGACAGAAATTGGGACGGT	TTGAAAGCACATTCAATCACA	255
SSR_799	scaffold_90	ttatcgctgatgaggcagtg	gaagggacggagtctgtgag	184
SSR_835	scaffold_119	CCCCCTTATCTCTCACCC	CATAGGCCAAGAAAAGAGCG	147
SSR_1001	scaffold_119	tcctcagctctgtgtcgtt	ataccggggtttactcca	249
SSR_1095	scaffold_2	CTCACGGAGTAAAGGCCGTA	GATGCCATCTCTTGCTTTC	185
SSR_831	scaffold_2	GGCCATCCAAGTGAAGAAA	AGGACCCATCGTAAGCCTCT	257
SSR_1078	scaffold_2	TGTTTCAGGGATCGTGTGA	TGCTTGCAACCTTCTGATTG	192
SSR_1188	scaffold_2	cacacaaagacggacgctaa	cggaggtattcacctgagc	268

Supplementary Table 1: SSR marker information

This table identifies the individual SSR loci mapped in this study, their location within the *Physcomitrella* V1.1 genome sequence by sequence scaffold, the nucleotide sequences for each primer pair, and the length of the fragments amplified from the Gransden genotype.