

# **Online Material**

**Supplementary Table I.** Sampling sites for polymorphism screening.

Species	Sample locality	Longitude (°)	Latitude (°)
<i>C. sieboldii</i> var. <i>sieboldii</i>	Ibaraki	140.52	36.02
	Tokyo	139.82	33.11
	Toyama	137.01	36.89
	Aichi	137.30	35.09
	Wakayama	135.61	33.52
	Shimane	133.01	35.51
	Kochi	133.15	33.15
	Nagasaki	129.20	34.16
	Miyazaki	131.42	32.17
Kagoshima	130.63	30.35	
<i>C. sieboldii</i> var. <i>luchuensis</i>	Okinawa	127.97	26.67
<i>C. cuspidata</i> var. <i>cuspidata</i>	Mie	136.63	34.46
	Hiroshima	132.21	34.25
	Kagawa	134.37	34.21
	Kumamoto	130.74	32.83
<i>C. cuspidata</i> var. <i>carlesii</i>	Taiwan	121.73	25.02

**Supplementary Table II.** The characteristics of abundant clusters (cluster size > 5) in the *C. sieboldii* inner bark cDNA library.

Cluster ID	Contig No.	Cluster Size	Nr blastx top hit		Pfam top hit		
			Accession No.	Description [species]	E-value	Description	E-value
CcC00008	1	39	gb AAV36561.1	RD22-like protein [ <i>Vitis vinifera</i> ]	8E-45	BURP domain	2.3E-51
CcC00064	1	19	emb CAC39481.2	Metallothionein-like protein [ <i>Quercus suber</i> ]	7E-25	Metallothionein	2.7E-46
CcC00021	1	18	gb AAM23265.1	L-asparaginase [ <i>Glycine max</i> ]	1E-159	Asparaginase	1.8E-119
CcC00068	1	17	ref NP_566536.1	Asparaginase [ <i>Arabidopsis thaliana</i> ]	1E-58	–	–
CcC00033	1	16	ref NP_194443.1	Translation initiation factor [ <i>Arabidopsis thaliana</i> ]	7E-56	Translation initiation factor SUI1	2.7E-43
CcC00183	1	15	ref NP_197617.1	Ribonuclease/transcriptional repressor [ <i>Arabidopsis thaliana</i> ]	1E-111	CAF1 family ribonuclease	1E-117
CcC00497	1	15	dbj BAC79443.1	Catalase [ <i>Acacia ampliceps</i> ]	1E-176	Catalase	1.4E-275
CcC00353	1	13	gb AAD10032.1	Translationally controlled tumor protein [ <i>Hevea brasiliensis</i> ]	4E-77	Translationally controlled tumor protein	2.6E-105
CcC00583	1	13	ref NP_187955.2	Unknown protein [ <i>Arabidopsis thaliana</i> ]	1E-24	–	–
CcC00038	1	12	ref NP_190815.1	Unknown protein [ <i>Arabidopsis thaliana</i> ]	1E-38	Harpin-induced protein 1 (Hin1)	5.5E-24
CcC00304	1	12	gb AAK69513.1	Putative transcription factor [ <i>Vitis vinifera</i> ]	2E-07	ABA/WDS induced protein	1.1E-47
CcC00506	1	12	emb CAC09928.1	Hypothetical protein [ <i>Catharanthus roseus</i> ]	9E-17	–	–
CcC00126	1	10	–	–	–	–	–
CcC00216	1	10	gb ABB02647.1	Unknown [ <i>Solanum tuberosum</i> ]	5E-68	Ribosomal protein S8	4.3E-62
CcC00071	1	9	gb AAA98491.1	Anionic peroxidase [ <i>Petroselinum crispum</i> ]	1E-126	Peroxidase	2E-128
CcC00214	1	9	gb AAD26942.1	Zinc-finger protein 1 [ <i>Datisca glomerata</i> ]	3E-50	–	–
CcC00524	1	9	gb AAN77145.1	Fiber protein Fb2 [ <i>Gossypium barbadense</i> ]	1E-72	Drought induced 19 protein (Di19)	1.7E-93
CcC00231	1	8	dbj BAC23049.1	Elongation factor 1- $\alpha$ [ <i>Solanum tuberosum</i> ]	1E-114	Elongation factor Tu GTP binding domain	1.5E-90
CcC00231	2	8	gb ABA12218.1	Translation elongation factor 1A-2 [ <i>Gossypium hirsutum</i> ]	0	Elongation factor Tu GTP binding domain	1.5E-90
CcC00285	1	8	gb AAV66332.1	Ethylene response factor 3 [ <i>Cucumis sativus</i> ]	1E-35	AP2 domain	5.8E-21
CcC00345	1	8	gb AAU04436.1	MAPKK [ <i>Lycopersicon esculentum</i> ]	1E-134	Protein kinase domain	9E-78
CcC00473	1	8	ref NP_190848.1	DNA binding/zinc ion binding [ <i>Arabidopsis thaliana</i> ]	4E-25	AN1-like Zinc finger	2.3E-19
CcC00516	1	8	ref NP_199299.1	Unknown protein [ <i>Arabidopsis thaliana</i> ]	1E-10	–	–
CcC00653	1	8	gb AAG40371.1	AT4g27960 [ <i>Arabidopsis thaliana</i> ]	3E-77	Ubiquitin-conjugating enzyme	3.3E-77
CcC00829	1	8	gb AAB95222.1	Cytosolic ascorbate peroxidase [ <i>Fragaria × ananassa</i> ]	1E-116	Peroxidase	3.7E-66
CcC00914	1	8	emb CAB85630.1	Putative metallothionein-like protein [ <i>Vitis vinifera</i> ]	9E-13	–	–
CcC00948	1	8	–	–	–	–	–
CcC00053	1	7	–	–	–	–	–
CcC00091	1	7	emb CAC84116.1	Peptidylprolyl isomerase (cyclophilin) [ <i>Betula pendula</i> ]	1E-81	Cyclophilin type peptidyl-prolyl cis-tr	4.4E-125
CcC00121	1	7	gb AAK29409.1	S-adenosyl-L-methionine synthetase [ <i>Elaeagnus umbellata</i> ]	1E-107	S-adenosylmethionine synthetase, cent	1.1E-38
CcC00207	1	7	sp Q40161 GPI_LYCES	Polygalacturonase isoenzyme 1 beta subunit [ <i>Solanum lycopersicum</i> ]	2E-52	BURP domain	1.5E-88
CcC00234	1	7	ref NP_180826.2	Putative synaptobrevin protein [ <i>Arabidopsis thaliana</i> ]	2E-86	–	–
CcC00352	1	7	ref NP_187955.2	Unknown protein [ <i>Arabidopsis thaliana</i> ]	4E-65	YT521-B-like family	1.8E-60
CcC00651	1	7	ref NP_197927.1	Ubiquinol-cytochrome-c reductase [ <i>Arabidopsis thaliana</i> ]	2E-50	Ubiquinol-cytochrome C reductase com- plex 14k	1.6E-39
CcC00020	1	6	gb AAL24250.1	At1g19180/T29M8_5 [ <i>Arabidopsis thaliana</i> ]	2E-15	–	–
CcC00052	1	6	gb AAT68207.1	Unknown [ <i>Cynodon dactylon</i> ]	4E-12	Protein of unknown function (DUF581)	2.3E-19
CcC00061	1	6	dbj BAD29340.1	Hypothetical protein [ <i>Oryza sativa</i> ]	1E-12	–	–
CcC00063	1	6	gb AAM65077.1	Unknown [ <i>Arabidopsis thaliana</i> ]	5E-18	–	–
CcC00186	1	6	gb AAF79874.1	T7N9.16 [ <i>Arabidopsis thaliana</i> ]	5E-51	Protein of unknown function (DUF569)	9.5E-87
CcC00208	1	6	dbj BAA33810.1	Phi-1 [ <i>Nicotiana tabacum</i> ]	1E-131	Phosphate-induced protein 1 conserved re- gion	5.9E-191
CcC00235	1	6	gb ABB17004.1	Ribosomal protein S7-like protein [ <i>Solanum tuberosum</i> ]	2E-87	Ribosomal protein S7e	7.1E-88
CcC00256	1	6	gb AAV51937.1	AP2/EREBP transcription factor ERF-2 [ <i>Gossypium hirsutum</i> ]	4E-33	AP2 domain	2.4E-21
CcC00426	1	6	gb AAF27931.1	14-3-3-like protein [ <i>Euphorbia esula</i> ]	1E-110	14-3-3 protein	6.3E-147
CcC00873	1	6	dbj BAA10929.1	Cytochrome P450 like_TBP [ <i>Nicotiana tabacum</i> ]	5E-53	–	–

–: No hits found.

**Supplementary Table III.** Distance matrix among cDNA libraries. CcC: *C. sieboldii* in the present study, Leple M: mild draught stress-treated *Populus tremula* × *Populus alba* leaves, Leple S: severe draught stress-treated *Populus tremula* × *Populus alba* leaves, Nanjo: mixture of several stress-treated *Populus nigra* leaves. Description for other libraries can be found at <http://www.populus.db.umu.se/>.

Library	CcC	A+B	C	F	G	I	K	L	M	N	P	Q	R	S	T	U	UB	V	X	Leple M	Leple S	Nanjo
CcC	0.00	3.29	3.66	3.52	3.59	2.71	3.78	3.10	3.63	3.92	3.81	3.23	3.75	3.55	3.73	3.80	3.79	3.26	2.69	2.60	2.38	3.25
A+B	3.29	0.00	0.78	0.68	1.01	1.62	0.91	0.76	0.76	0.86	0.88	1.16	0.86	0.91	0.77	0.73	0.85	0.85	1.45	1.61	2.18	1.03
C	3.66	0.78	0.00	1.04	1.41	1.55	1.17	1.08	1.11	0.96	1.18	1.04	1.12	0.29	0.32	0.66	1.11	1.35	1.81	1.50	2.15	1.49
F	3.52	0.68	1.04	0.00	0.81	1.96	0.76	0.97	0.56	0.65	0.48	1.30	0.71	1.15	0.93	0.67	0.73	0.72	1.40	1.90	2.47	0.92
G	3.59	1.01	1.41	0.81	0.00	2.41	0.36	1.24	0.97	0.75	0.68	1.89	0.53	1.52	1.24	0.88	0.44	0.62	1.94	2.26	2.89	0.45
I	2.71	1.62	1.55	1.96	2.41	0.00	2.34	1.44	1.96	2.21	2.25	0.93	2.22	1.38	1.71	2.02	2.29	2.07	1.45	0.85	0.92	2.25
K	3.78	0.91	1.17	0.76	0.36	2.34	0.00	1.17	0.84	0.45	0.53	1.77	0.29	1.31	0.98	0.60	0.15	0.74	2.00	2.24	2.88	0.73
L	3.10	0.76	1.08	0.97	1.24	1.44	1.17	0.00	0.78	1.11	1.06	1.04	1.01	1.12	1.12	1.11	1.11	1.05	1.30	1.64	2.14	1.21
M	3.63	0.76	1.11	0.56	0.97	1.96	0.84	0.78	0.00	0.61	0.45	1.24	0.63	1.22	1.02	0.80	0.79	0.87	1.44	2.09	2.59	1.15
N	3.92	0.86	0.96	0.65	0.75	2.21	0.45	1.11	0.61	0.00	0.37	1.52	0.34	1.11	0.78	0.41	0.41	0.91	1.89	2.19	2.81	1.06
P	3.81	0.88	1.18	0.48	0.68	2.25	0.53	1.06	0.45	0.37	0.00	1.55	0.41	1.32	1.03	0.66	0.50	0.81	1.71	2.25	2.83	0.97
Q	3.23	1.16	1.04	1.30	1.89	0.93	1.77	1.04	1.24	1.52	1.55	0.00	1.60	0.92	1.15	1.40	1.72	1.59	1.09	1.25	1.58	1.85
R	3.75	0.86	1.12	0.71	0.53	2.22	0.29	1.01	0.63	0.34	0.41	1.60	0.00	1.25	0.94	0.62	0.29	0.71	1.86	2.20	2.81	0.83
S	3.55	0.91	0.29	1.15	1.52	1.38	1.31	1.12	1.22	1.11	1.32	0.92	1.25	0.00	0.42	0.83	1.27	1.39	1.74	1.32	1.95	1.56
T	3.73	0.77	0.32	0.93	1.24	1.71	0.98	1.12	1.02	0.78	1.03	1.15	0.94	0.42	0.00	0.48	0.94	1.17	1.84	1.64	2.28	1.36
U	3.80	0.73	0.66	0.67	0.88	2.02	0.60	1.11	0.80	0.41	0.66	1.40	0.62	0.83	0.48	0.00	0.56	0.97	1.87	1.92	2.57	1.10
UB	3.79	0.85	1.11	0.73	0.44	2.29	0.15	1.11	0.79	0.41	0.50	1.72	0.29	1.27	0.94	0.56	0.00	0.80	1.98	2.22	2.87	0.79
V	3.26	0.85	1.35	0.72	0.62	2.07	0.74	1.05	0.87	0.91	0.81	1.59	0.71	1.39	1.17	0.97	0.80	0.00	1.56	1.96	2.51	0.61
X	2.69	1.45	1.81	1.40	1.94	1.45	2.00	1.30	1.44	1.89	1.71	1.09	1.86	1.74	1.84	1.87	1.98	1.56	0.00	1.61	1.74	1.77
Leple M	2.60	1.61	1.50	1.90	2.26	0.85	2.24	1.64	2.09	2.19	2.25	1.25	2.20	1.32	1.64	1.92	2.22	1.96	1.61	0.00	0.88	2.04
Leple S	2.38	2.18	2.15	2.47	2.89	0.92	2.88	2.14	2.59	2.81	2.83	1.58	2.81	1.95	2.28	2.57	2.87	2.51	1.74	0.88	0.00	2.65
Nanjo	3.25	1.03	1.49	0.92	0.45	2.25	0.73	1.21	1.15	1.06	0.97	1.85	0.83	1.56	1.36	1.10	0.79	0.61	1.77	2.04	2.65	0.00

**Supplementary Table IV.** SSRs found in potential unigenes by SSRIT.pl script and estimation of SSR location.

Potential unigene ID	SSR number	Motif length	Motif	Number of motif	Stat position	End position	SSR location
CcC00006_1	1	2	at	9	69	86	Non-coding
CcC00019_1	1	3	gaa	6	35	52	Coding
CcC00021_1	1	2	ga	10	34	53	Non-coding
CcC00024_1	1	2	ct	16	12	43	Non-coding
CcC00033_1	1	4	gagc	5	424	443	Non-coding
CcC00034_1	1	2	tc	15	21	50	Unknown
CcC00037_1	1	2	tc	17	54	87	Non-coding
CcC00048_1	1	2	tc	9	86	103	Unknown
CcC00052_1	1	2	ct	15	17	46	Non-coding
CcC00053_1	1	2	ga	40	9	88	Non-coding
CcC00055_1	1	2	at	10	92	111	Unknown
CcC00059_1	1	3	aac	6	193	210	Coding
CcC00063_1	1	3	aga	6	373	390	Coding
CcC00068_1	1	2	ga	13	33	58	Non-coding
CcC00072_1	1	2	ag	9	14	31	Non-coding
CcC00083_1	1	2	tc	11	96	117	Non-coding
CcC00087_1	1	2	tc	13	32	57	Non-coding
CcC00110_1	1	3	tat	6	541	558	Unknown
CcC00112_1	1	2	tc	20	38	77	Non-coding
CcC00114_1	1	3	tta	6	59	76	Non-coding
CcC00118_1	1	3	ccg	6	328	345	Coding
CcC00127_1	1	2	ct	9	11	28	Non-coding
CcC00132_1	1	2	at	12	377	400	Non-coding
CcC00134_1	1	2	at	12	473	496	Non-coding
CcC00141_1	1	3	aca	6	21	38	Coding
CcC00141_1	2	3	aca	6	202	219	Coding
CcC00143_1	1	2	ta	16	563	594	Non-coding
CcC00146_1	1	2	ag	12	128	151	Non-coding
CcC00150_1	1	2	ct	21	14	55	Non-coding
CcC00152_1	1	3	tct	7	239	259	Coding
CcC00155_1	1	3	tct	8	119	142	Coding
CcC00157_1	1	2	ta	12	365	388	Non-coding
CcC00158_1	1	2	ag	9	105	122	Non-coding
CcC00171_1	1	2	ct	13	170	195	Non-coding
CcC00172_1	1	2	ta	11	124	145	Non-coding
CcC00176_1	1	3	gga	6	304	321	Coding
CcC00206_1	1	3	ttc	6	397	414	Unknown
CcC00231_2	1	2	ct	9	8	25	Non-coding
CcC00233_1	1	3	ttc	6	17	34	Non-coding
CcC00248_1	1	2	tc	10	9	28	Non-coding
CcC00248_1	2	2	ct	11	109	130	Non-coding
CcC00253_1	1	2	tc	14	27	54	Non-coding
CcC00260_1	1	3	gga	7	276	296	Coding
CcC00270_1	1	3	ctt	6	101	118	Coding
CcC00296_1	1	3	tta	7	496	516	Non-coding
CcC00301_1	1	2	ct	9	25	42	Non-coding
CcC00307_1	1	2	ct	13	63	88	Non-coding
CcC00314_1	1	2	ac	16	76	107	Unknown
CcC00314_1	2	2	at	11	108	129	Unknown
CcC00315_1	1	2	ct	10	63	82	Non-coding
CcC00321_1	1	3	tct	6	53	70	Non-coding
CcC00329_1	1	2	tc	10	25	44	Non-coding
CcC00338_1	1	2	ag	12	78	101	Non-coding
CcC00338_1	2	3	aca	6	360	377	Coding
CcC00338_1	3	3	gga	8	392	415	Coding
CcC00348_1	1	3	caa	6	148	165	Coding
CcC00370_1	1	3	aag	6	163	180	Coding
CcC00370_1	2	3	aag	8	259	282	Coding

**Supplementary Table IV.** Continued.

Potential unigene ID	SSR number	Motif length	Motif	Number of motif	Stat position	End position	SSR location
CcC00370_1	3	3	aag	6	292	309	Coding
CcC00374_1	1	2	tc	10	68	87	Unknown
CcC00376_1	1	2	ag	12	16	39	Non-coding
CcC00385_1	1	2	at	12	541	564	Non-coding
CcC00397_1	1	2	ct	15	74	103	Non-coding
CcC00400_1	1	3	gaa	8	295	318	Coding
CcC00418_1	1	3	caa	6	319	336	Coding
CcC00428_1	1	2	ct	9	61	78	Non-coding
CcC00435_1	1	2	ca	14	9	36	Unknown
CcC00440_1	1	3	cca	8	175	198	Coding
CcC00446_1	1	2	ag	13	125	150	Non-coding
CcC00454_1	1	4	gtca	56	9	232	Unknown
CcC00473_1	1	3	ctc	6	285	302	Coding
CcC00487_1	1	3	gta	7	14	34	Coding
CcC00495_1	1	3	tct	7	6	26	Non-coding
CcC00511_1	1	2	tc	10	17	36	Non-coding
CcC00524_1	1	2	ct	9	78	95	Non-coding
CcC00534_1	1	3	gga	6	312	329	Coding
CcC00535_1	1	2	ta	9	174	191	Non-coding
CcC00540_1	1	3	tct	6	99	116	Coding
CcC00556_1	1	3	tct	14	85	126	Non-coding
CcC00560_1	1	3	atc	9	405	431	Coding
CcC00567_1	1	2	ct	19	49	86	Non-coding
CcC00583_1	1	2	tc	11	218	239	Non-coding
CcC00599_1	1	2	ct	10	140	159	Non-coding
CcC00609_1	1	3	gga	6	151	168	Coding
CcC00610_1	1	2	ta	12	334	357	Non-coding
CcC00634_1	1	2	tc	11	45	66	Unknown
CcC00637_1	1	2	ct	12	27	50	Non-coding
CcC00646_1	1	2	ta	11	18	39	Non-coding
CcC00651_1	1	2	ga	13	29	54	Non-coding
CcC00660_1	1	2	ct	9	90	107	Non-coding
CcC00660_1	2	3	aac	6	333	350	Coding
CcC00678_1	1	2	ag	14	25	52	Non-coding
CcC00678_1	2	2	ga	11	79	100	Non-coding
CcC00705_1	1	3	tec	6	31	48	Coding
CcC00729_1	1	2	tc	21	42	83	Unknown
CcC00729_1	2	2	ag	16	159	190	Unknown
CcC00735_1	1	2	ag	11	13	34	Non-coding
CcC00744_1	1	4	ttat	5	79	98	Unknown
CcC00749_1	1	2	tc	17	156	189	Non-coding
CcC00750_1	1	2	tc	14	128	155	Unknown
CcC00760_1	1	2	ct	13	9	34	Non-coding
CcC00761_1	1	3	aca	7	316	336	Coding
CcC00761_1	2	3	agg	6	463	480	Coding
CcC00764_1	1	3	ttc	8	164	187	Non-coding
CcC00767_1	1	3	cac	8	95	118	Coding
CcC00769_1	1	2	tc	10	63	82	Non-coding
CcC00782_1	1	3	gaa	6	361	378	Coding
CcC00785_1	1	2	ct	15	12	41	Non-coding
CcC00795_1	1	3	ttc	19	288	344	Non-coding
CcC00804_1	1	2	ct	11	39	60	Non-coding
CcC00816_1	1	3	gaa	6	170	187	Coding
CcC00816_1	2	3	gaa	6	276	293	Coding
CcC00817_1	1	4	tctt	6	27	50	Non-coding
CcC00824_1	1	2	ct	11	39	60	Unknown
CcC00824_1	2	2	ct	14	206	233	Unknown
CcC00845_1	1	2	ga	11	555	576	Unknown

**Supplementary Table IV.** Continued.

Potential unigene ID	SSR number	Motif length	Motif	Number of motif	Stat position	End position	SSR location
CcC00845_1	2	3	tgt	6	197	214	Unknown
CcC00849_1	1	3	caa	6	233	250	Coding
CcC00855_1	1	3	gga	6	315	332	Coding
CcC00857_1	1	2	tc	13	22	47	Non-coding
CcC00857_1	2	2	ca	17	47	80	Non-coding
CcC00866_1	1	2	ct	10	45	64	Non-coding
CcC00878_1	1	3	tct	7	42	62	Coding
CcC00879_1	1	4	acca	5	274	293	Non-coding
CcC00884_1	1	2	gt	10	385	404	Unknown
CcC00897_1	1	2	tc	12	11	34	Non-coding
CcC00936_1	1	3	aat	7	30	50	Non-coding
CcC00948_1	1	2	ct	16	25	56	Non-coding
CcC00954_1	1	2	tc	9	100	117	Non-coding
CcC00959_1	1	3	cca	6	354	371	Coding
CcC00966_1	1	3	gaa	10	55	84	Coding
CcC00968_1	1	2	tc	11	698	719	Non-coding
CcC00970_1	1	3	gag	6	315	332	Non-coding
CcC00972_1	1	2	ct	55	10	119	Non-coding
CcC00972_2	1	2	ga	55	8	117	Non-coding
CcC00973_1	1	2	tc	14	116	143	Non-coding
CcC00983_1	1	2	ct	71	9	150	Unknown
CcC00989_1	1	2	ct	14	37	64	Non-coding
CcC00997_1	1	3	gga	6	315	332	Coding
CcC01013_1	1	3	acc	7	241	261	Coding
CcC01013_1	2	3	cca	6	335	352	Coding
CcC01040_1	1	2	ag	18	132	167	Non-coding
CcC01059_1	1	3	gct	6	399	416	Coding
CcC01065_1	1	2	ag	11	494	515	Non-coding
CcC01067_1	1	3	agg	6	34	51	Coding
CcC01073_1	1	2	ga	13	160	185	Non-coding
CcC01078_1	1	3	cac	6	123	140	Coding
CcC01090_1	1	2	tc	9	13	30	Non-coding
CcC01097_1	1	2	at	12	510	533	Non-coding
CcC01111_1	1	3	gaa	11	91	123	Non-coding
CcC01135_1	1	3	ctt	8	166	189	Coding
CcC01146_1	1	2	tc	9	20	37	Non-coding
CcC01157_1	1	2	ag	9	16	33	Non-coding
CcC01160_1	1	3	tcc	7	141	161	Coding
CcC01167_1	1	3	gga	6	320	337	Coding
CcC01175_1	1	2	ct	9	19	36	Non-coding
CcC01183_1	1	2	ct	9	26	43	Non-coding
CcC01191_1	1	3	acc	6	85	102	Coding
CcC01225_1	1	2	ta	9	603	620	Non-coding
CcC01226_1	1	2	ct	14	37	64	Non-coding
CcC01229_1	1	3	cta	9	189	215	Non-coding
CcC01229_1	2	3	ggt	6	265	282	Non-coding
CcC01247_1	1	3	cca	7	337	357	Coding
CcC01249_1	1	2	tc	50	9	108	Non-coding
CcC01249_2	1	2	tc	54	232	339	Unknown
CcC01257_1	1	4	tctt	6	220	243	Non-coding
CcC01271_1	1	2	tc	11	9	30	Non-coding
CcC01271_1	2	3	cag	6	497	514	Coding
CcC01279_1	1	3	tca	8	240	263	Non-coding
CcC01298_1	1	3	tct	8	52	75	Non-coding
CcC01303_1	1	3	agc	6	300	317	Coding
CcC01314_1	1	2	tc	11	9	30	Non-coding
CcC01316_1	1	2	ct	9	46	63	Non-coding

**Supplementary Table IV.** Continued.

Potential unigene ID	SSR number	Motif length	Motif	Number of motif	Stat position	End position	SSR location
CcC01317_1	1	2	tc	10	50	69	Non-coding
CcC01317_2	1	2	tc	10	39	58	Non-coding
CcC01317_2	2	3	gaa	8	252	275	Coding
CcC01321_1	1	3	gga	6	300	317	Coding
CcC01335_1	1	2	ga	14	186	213	Non-coding
CcC01358_1	1	2	tc	9	167	184	Unknown
CcC01361_1	1	3	ttc	9	347	373	Unknown
CcC01400_1	1	3	ggc	6	449	466	Coding
CcC01401_1	1	3	gga	6	324	341	Coding
CcC01410_1	1	3	caa	6	323	340	Coding
CcC01420_1	1	2	ag	13	176	201	Non-coding
CcC01426_1	1	2	ct	9	31	48	Non-coding
CcC01428_1	1	2	ct	57	9	122	Unknown
CcC01435_1	1	2	tc	10	78	97	Non-coding
CcC01442_1	1	2	ct	17	14	47	Non-coding
CcC01442_1	2	2	tc	9	74	91	Non-coding
CcC01451_1	1	3	cca	9	171	197	Coding
CcC01462_1	1	2	ct	18	9	44	Non-coding
CcC01471_1	1	2	tc	14	69	96	Non-coding
CcC01479_1	1	2	ca	9	50	67	Non-coding
CcC01500_1	1	2	ct	18	37	72	Unknown
CcC01500_1	2	2	tc	13	249	274	Unknown
CcC01504_1	1	2	ct	9	312	329	Non-coding
CcC01513_1	1	3	cag	6	251	268	Coding
CcC01546_1	1	2	tc	13	131	156	Non-coding
CcC01548_1	1	2	ag	16	71	102	Unknown
CcC01564_1	1	3	ctc	8	50	73	Non-coding
CcC01568_1	1	3	cca	6	222	239	Coding
CcC01593_1	1	3	caa	8	91	114	Coding
CcC01604_1	1	2	ag	22	278	321	Unknown
CcC01611_1	1	3	gca	8	39	62	Coding
CcC01614_1	1	3	cca	6	316	333	Coding
CcC01619_1	1	2	tc	11	24	45	Non-coding
CcC01640_1	1	2	ct	10	500	519	Unknown
CcC01650_1	1	2	at	14	276	303	Unknown
CcC01653_1	1	3	acc	7	388	408	Unknown
CcC01662_1	1	3	ata	9	177	203	Non-coding
CcC01671_2	1	3	atg	7	98	118	Coding
CcC01672_1	1	2	ct	12	27	50	Non-coding
CcC01672_1	2	2	ac	12	183	206	Non-coding
CcC01681_1	1	2	ga	9	10	27	Non-coding
CcC01686_1	1	2	ct	13	74	99	Non-coding
CcC01687_1	1	3	cca	7	257	277	Coding
CcC01707_1	1	2	ct	13	49	74	Unknown
CcC01727_1	1	3	act	6	207	224	Coding
CcC01736_1	1	3	gga	6	324	341	Coding
CcC01739_1	1	3	gca	7	292	312	Coding
CcC01748_1	1	2	tc	17	153	186	Unknown
CcC01767_1	1	2	ct	11	24	45	Non-coding
CcC01772_1	1	2	ag	12	105	128	Non-coding
CcC01777_1	1	3	egc	7	475	495	Coding
CcC01805_1	1	3	atc	6	37	54	Coding
CcC01814_1	1	3	ccg	8	74	97	Coding
CcC01821_1	1	2	ca	17	17	50	Unknown
CcC01824_1	1	2	ct	11	9	30	Non-coding
CcC01851_1	1	3	acc	8	163	186	Coding
CcC01851_1	2	3	aac	6	319	336	Coding



**Supplementary Table IV.** Continued.

Potential unigene ID	SSR number	Motif length	Motif	Number of motif	Stat position	End position	SSR location
CcC01857_1	1	3	tct	9	201	227	Non-coding
CcC01865_1	1	2	tc	10	46	65	Non-coding
CcC01873_1	1	2	ct	16	10	41	Non-coding
CcC01875_1	1	3	gag	7	145	165	Coding
CcC01879_1	1	2	ct	13	11	36	Non-coding
CcC01882_1	1	3	ttc	6	173	190	Non-coding
CcC01890_1	1	3	tgc	6	191	208	Coding
CcC01899_1	1	3	gaa	6	61	78	Coding
CcC01909_1	1	3	gga	6	315	332	Coding
CcC01916_1	1	2	tc	12	8	31	Non-coding
CcC01931_1	1	2	ag	9	34	51	Non-coding
CcC01934_1	1	3	gcc	6	240	257	Coding
CcC01952_1	1	2	tc	13	101	126	Non-coding
CcC01954_1	1	2	tc	18	66	101	Non-coding
CcC01967_1	1	2	ct	11	88	109	Non-coding
CcC01967_1	2	3	gtt	6	50	67	Non-coding
CcC01969_1	1	3	cca	6	302	319	Coding
CcC01989_1	1	3	tgt	7	110	130	Non-coding
CcC01991_1	1	2	at	9	628	645	Non-coding
CcC01997_1	1	2	ct	13	75	100	Unknown
CcC01999_1	1	2	tc	16	141	172	Non-coding
CcC02014_1	1	2	tc	11	37	58	Non-coding
CcC02014_1	2	3	aag	7	77	97	Non-coding
CcC02022_1	1	2	ct	12	159	182	Non-coding
CcC02023_1	1	2	ct	11	27	48	Non-coding
CcC02027_1	1	2	tc	17	48	81	Non-coding
CcC02031_1	1	3	gtc	7	550	570	Coding
CcC02044_1	1	2	gt	9	93	110	Non-coding
CcC02044_1	2	2	ga	16	111	142	Non-coding
CcC02053_1	1	2	ag	10	49	68	Non-coding
CcC02057_1	1	2	ta	18	637	672	Non-coding
CcC02065_1	1	2	ct	11	91	112	Non-coding
CcC02069_1	1	3	caa	6	177	194	Coding
CcC02075_1	1	2	ct	10	22	41	Non-coding
CcC02084_1	1	2	ct	9	7	24	Non-coding
CcC02097_1	1	2	tc	15	34	63	Non-coding
CcC02103_1	1	2	ta	16	189	220	Non-coding
CcC02107_1	1	3	ggt	10	481	510	Coding
CcC02111_1	1	2	tg	9	36	53	Non-coding
CcC02112_1	1	2	ta	16	52	83	Unknown
CcC02123_1	1	2	ct	10	30	49	Non-coding
CcC02162_1	1	2	ct	10	16	35	Non-coding
CcC02171_1	1	2	ct	10	1	20	Unknown
CcC02182_1	1	3	gga	6	314	331	Coding
CcC02186_1	1	3	tct	9	73	99	Non-coding
CcC02187_1	1	2	ag	20	163	202	Unknown
CcC02197_1	1	2	tc	14	281	308	Unknown
CcC02197_1	2	3	ttc	7	13	33	Unknown
CcC02227_1	1	2	tc	9	40	57	Non-coding

**Supplementary Table IV.** Continued.

Potential unigene ID	SSR number	Motif length	Motif	Number of motif	Stat position	End position	SSR location
CcC02238_1	1	2	at	12	66	89	Unknown
CcC02268_1	1	2	ta	14	533	560	Non-coding
CcC02291_1	1	3	cag	9	262	288	Coding
CcC02294_1	1	3	aag	6	75	92	Non-coding
CcC02296_1	1	2	ct	15	53	82	Non-coding
CcC02312_1	1	3	ttc	6	329	346	Non-coding
CcC02315_1	1	2	tc	18	10	45	Non-coding
CcC02329_1	1	3	gat	7	220	240	Coding
CcC02337_1	1	2	ct	13	99	124	Non-coding
CcC02358_1	1	2	ag	11	78	99	Unknown
CcC02375_1	1	3	gaa	7	180	200	Coding
CcC02379_1	1	2	ct	13	17	42	Non-coding
CcC02384_1	1	2	ct	10	11	30	Unknown
CcC02386_1	1	3	gat	7	320	340	Coding
CcC02391_1	1	3	gga	6	291	308	Coding
CcC02406_1	1	3	tta	8	158	181	Non-coding
CcC02408_1	1	2	ct	11	358	379	Unknown
CcC02416_1	1	2	tc	14	18	45	Non-coding
CcC02418_1	1	2	at	10	639	658	Non-coding
CcC02419_1	1	2	ga	10	480	499	Non-coding
CcC02420_1	1	2	ga	13	71	96	Non-coding
CcC02438_1	1	2	ct	10	34	53	Non-coding
CcC02444_1	1	2	tc	11	48	69	Non-coding
CcC02448_1	1	3	aag	9	322	348	Unknown
CcC02450_1	1	2	ct	10	9	28	Non-coding
CcC02464_1	1	2	tc	20	71	110	Non-coding
CcC02489_1	1	2	tc	14	62	89	Non-coding
CcC02489_1	2	2	tc	19	138	175	Non-coding
CcC02496_1	1	2	tc	10	34	53	Non-coding
CcC02500_1	1	3	taa	6	290	307	Non-coding
CcC02501_1	1	3	aca	7	179	199	Coding
CcC02510_1	1	2	ag	9	267	284	Unknown
CcC02512_1	1	3	gga	7	257	277	Coding
CcC02524_1	1	3	gcc	6	302	319	Coding
CcC02535_1	1	2	at	12	306	329	Non-coding