

**Supplemental Table 3.** List of EST-SSR markers used in this study

marker name	repeat region	fw primer for postlabel	rv primer for postlabel	accession no.
MSE0019	(ac)23(tc)12	accatcaaaactactctcatcccca	gtttccacttctatgtcctttgccat	FS951295
MSE0020	(tc)21,(ta)7	attcccacttgacaccaaaaccaag	gtttctccggtcacctctatctgtcc	FS949264
MSE0021	(tc)20(ta)10	accatccatccataccattcttca	gtttatggaatgcatccaacaacaagg	FS951578
MSE0022	(tc)19(ta)9	actgcagtgtagaaaagccccaat	gtttcgatctgggagcttctggagata	AB361048
MSE0023	(tc)13, (tc)7	agaaacaaccacctccctgatct	gttttagcagcgaagaaggattcattag	AB485966
MSE0024	(ag)11	ataaccatcattccaaagccacaa	gtttccgatttcgacatctctctgtct	FS951122
MSE0025	(tc)14	atatactcctccctcaggctcctcc	gtttcagcaatgaaacgaaaccagatt	FS948413
MSE0026	(ag)7(ag)6	atcaccaaaggaaaccctactgg	gtttcgcaggtggatctggagaaaatac	AB461371
MSE0027	(tc)19	atccctctacttcaatcgacccc	gtttgaagggcggctactgtatggat	FS952009
MSE0028	(tc)21	acaacccaaaaattcacatgatagc	gtttcaacaacatcgtagaggcca	FS951387
MSE0029	(ag)14, (ag)7	atagccaatcaagctcctcctcct	gtttctgttcctccttgatgatg	FS949897
MSE0030	(tc)11	atccaaaaccctagttcactcca	gtttacgctctgtatcggtgaaggctac	AB461369
MSE0031	(tc)8,(tct)9	atgatctgaagtggaaggtttcg	gtttcttatgagacttggcctcgc	FS951496
MSE0032	(ac)13	atftccctcaaaccttctcagc	gtttaatccctgggtctcattctgt	FS949441
MSE0033	(tc)12	acaaactcaaacatctcagcgggt	gtttcagagataatggctcgtggga	FS951827
MSE0034	(tc)14	agctctctgtccgaagcttttag	gtttcacctcaaacacacaaaac	FS951853
MSE0035	(tc)13	atccttcaatctccattgacgc	gtttcacaaaaaccccaataccctcc	AB461372
MSE0036	(ag)11,(ag)8	atgtgctattgtgtgtggacc	gtttaaaagcttggtaagatagcccc	FS951471
MSE0037	(tc)12	attaccatttgcttctgtgtc	gtttgaagcaattgggaatcagtg	AB485967
MSE0038	(ag)8	attcctatgtctgagccctcatt	gttttaggcaagctgaacatcgtct	FS950252
MSE0039	(ag)21	acattctctgcaattacacatcc	gtttcttttgtaagcggctcattgtc	AB485968
MSE0040	(tc)18	actccgacgagtcagttcctaac	gtttgtacatttgacagagcagagc	AB485969
MSE0041	(tc)10	agacagtgctccatctccatctcc	gtttacccttgatttggccacatac	FS950273
MSE0042	(tc)16	agactcgtctcctcaacaaac	gtttaagcggagataatggtggttagca	FS950639
MSE0043	(ta)7, (ag)10	ataggcgagagatcagctgaaaa	gtttccatcttctgagtggtctctgc	FS951029
MSE0044	(ta)11, (ag)6	atgcttagcagccatcattcaaca	gtttcttttacgaaacaccgc	FS948949
MSE0045	(ag)14	atggcgataacttcgagacacaaa	gtttccctcctccttttaaggtt	AB461368
MSE0046	(tc)14	actccctcacatcactctcagtcg	gtttgagacagtgtagtctatcgggg	FS950610
MSE0047	(tc)13	agatcatcttaaacccctaaaacc	gtttgatgttggaatggtgaaggaga	AB485970
MSE0048	(tc)9	ataaaagcctaaaccctcgaact	gtttgcctggaacctgggaacttaac	FS948085
MSE0049	(ag)14	atgtagcatttggcttattggatcac	gtttcctgtcaaagctcctctgtgg	AB361047
MSE0050	(tc)14	attgagtcctcattgtccacac	gtttctttgatcaggagtcagagga	FS947935
MSE0051	(tc)15	acttgcaagtggaacaaactgttc	gttttagctcagagacgtaggcatttct	AB461365
MSE0052	(tc)9	agttacggacttctgttagctggc	gtttggttggtgtctgtgattctt	AB505872
MSE0053	(tc)16	ataatcccaaaaattgtctcagtg	gtttcacgatgagagtgtagaccgtt	AB461367
MSE0054	(tc)15	atacaagaacgaaacaactcctccg	gtttgagagctggaatggtgtctgagt	FS947912
MSE0055	(ta)6	atcacgaaccactcctcctcat	gtttgcagataatacactccaaccct	FS949373
MSE0056	(tc)10	atccatccatcccatatc	gtttcaacaacatcgtagaggcca	AB361052
MSE0057	(tc)12	atctctctcacttccgttca	gtttgactcatcagcagcaaggata	FS951743
MSE0058	(tc)12	atcttattctcactcgcgaccag	gttttagatttgatgctcaatgaacggt	FS951427
MSE0059	(gaa)11	attccgtgagagacgacgaag	gtttgactttgtgtggtctttcc	FS950702
MSE0060 <sup>a</sup>	(tc)5,(tc)5,(tc)5,(tc)4	attatcgaaacgtgtctcctca	gtttaacaccggaatctccaataagcaa	FS948154
MSE0061	(tc)9	acacacatacaaccaaccaagc	gtttgaggactctgcatcattacagc	FS949588
MSE0062	(ag)18	acagagaacattgaacatcaagcc	gttttaggttcttcccaatcgaact	AB461364
MSE0063	(ag)9	acattctagaggagaaaaagtgtg	gtttccagctctgtaaacgaccac	AB505868
MSE0064	(ag)7	accagttaccaagcctcaaatca	gtttccacagtgagttccacatcatt	FS949747
MSE0065	(tc)15	agtcaacctaaccaacaaatca	gtttcctgtaacatcatggtggctg	FS949036
MSE0066 <sup>a</sup>	(tc)4, (tc)4, (tc)3, (tc)4, (tc)3	ataaagccagtgcccaactcgc	gtttcagcaagatcagtcagt	FS949044
MSE0067	(tc)18	atcttaagtctccctcttctcgt	gtttggggattgagagggaatgtaa	FS947993
MSE0068	(tc)9	acgtttattctctctcgtcag	gtttgaggactcgaagaattgaagcca	AB505871
MSE0069	(tc)17	atcttaccgctcctctctccact	gtttcagtgccaggtggtgaaactgtag	FS952134
MSE0070	(tc)8	atcacctctcatcacccttctca	gtttgcattcatggttccaagagagaga	AB505870
MSE0071	(tc)14	atcctccaccgaagtcgatcc	gtttagaagttgttccctcaggccgaa	AB505867
MSE0072	(tc)14	attcagtcaccctaccctctaaa	gttttagcatccttgatacccttctgg	AB361049

**Supplemental Table 3.** continued.

marker name	repeat region	fw primer for postlabel	rv primer for postlabel	accession no.
MSE0073	(tc)14	attcggctctctcctctctct	gtttaacgaaggaacaagaagaagcac	FS947738
MSE0074	(tc)7	acaatattccactcccccaaacac	gtttgccctctgttctctctgtcc	FS948120
MSE0075	(tc)12	acacgtttgtagcctaggtctca	gtttaaatcaatgttcgatcgtctc	FS949483
MSE0076 <sup>a</sup>	(ca)3, (ac)4, (tat)3, (gta)3, (tgg)3	acatccattcatcaacaagggaat	gtttgctgattcccagctgtctt	AB505869
MSE0077	(tc)10	accaggcgtctttgtatcgtctc	gtttcgaatgcactctctcatttcg	AB361050
MSE0078	(ag)16	actgcgtctcttctcctgcac	gtttggagtcaattagggtgggtt	AB461366
MSE0079	(ag)16	agtattcactttgcagagccca	gtttagctttgaagataggtggcgatg	AB505866
MSE0080 <sup>a</sup>	(ac)4, (ta)4, (tca)3, (tc)5	ataccctctcttcccatcacctt	gtttaccagaacagaggacagagagca	FS949599
MSE0081	(tc)9	atactttccccctctcctcctt	gtttgttaccaccgtaaaagcca	FS950583
MSE0082	(ta)13	atcaaaatccctcccccaaaa	gtttcaaaactaagaaccaatgccacca	FS948901
MSE0083	(tct)6	atctgatcgaatcaccaatgcct	gtttgaagaagagagagaagtcctg	FS951085
MSE0084	(tc)16	atgctttcttcccactcttctg	gtttgacgtcctcgaataagtgtct	FS949655
MSE0085	(tc)9	atgtcacgaacatggcaccttt	gtttcgctgcactctctctgtatt	AB505865
MSE0086	(tc)16	attcctctatcttcccccaaaa	gtttagggtatgatcgaactcttcca	FS951412
MSE0087	(ag)13	atttttctcctactgcgccga	gtttaaagccttgacgcgagacttcta	AB505873
MSE0088	(tc)9	accaaacaaggcttagaccagaatg	gtttgctttgaagggttctgtt	FS951504
MSE0089	(ag)7	accgtcttctcttctctctccc	gtttaatcacctggaacagcggaa	FS949251
MSE0090	(tc)15	acgaaccacaggaacaatctcaa	gtttctttctgcttcccacagcatc	FS950145
MSE0091	(ta)7,(ag)8	acgtcgttcttctgagatgtt	gtttaagtcaacatgaagccaaccaat	FS949737
MSE0092	(ag)12	actcatacaagccttcaagcacgc	gtttcgtccctcctcctgaagaact	FS949294
MSE0093	(tc)11	actgcatacacacctgactgaa	gtttgaggactgacatggactgga	FS948326
MSE0094	(ta)8	agaaaaccattctgcacaccact	gtttatggaaggaactggaggtgga	FS948521
MSE0095	(cct)9	agattcatcattgctttatctccc	gtttagcctatcaccctcattgtgga	FS948314
MSE0096	(tc)12	agctcttccagttcacctcata	gtttacacaaatagccatcacctgtt	FS951767
MSE0097	(ag)9	aggactgaaggagtagaaaatcca	gtttcatgatgtaggtccaccgatt	FS951041
MSE0098	(cca)6	atcccatctccatctccaatcca	gtttgcaacaagctcaaaactcct	FS951011
MSE0099	(ag)6	atctcagcttctctttacaacaca	gtttatcaccggggcaaaaggtatg	FS952164
MSE0100	(tc)15	atcttctcgtgtacatacaccccc	gtttgaattgtggaggcctagaattg	AB461370
MSE0101	(cca)6	atgctctcctctgtttacgccttg	gtttacgaattctgaccacgaacctta	FS950763
MSE0102 <sup>a</sup>	(tc)5(ctc)3, (tc)4, (tc)3	atttctccacctgcggtt	gtttagaacggcagtgctaggtttt	FS951686
MSE0103	(tc)14	acaagcaaaagcattacaaaaagc	gtttcaccaactgaagaatcccat	FS951354
MSE0104	(ag)14	acacaaccactctgcaccagacac	gtttccggattcagtcagaattggag	FS949898
MSE0105	(cca)6	acatccaaaacaaggaagctcca	gtttgtgtggagattgagtggtg	FS949892
MSE0106	(tc)6	acgcttcttcttctcatctcaa	gtttcaacaagaagacagccaagacc	FS947853
MSE0107	(tc)8	actctactcctcgcgaatctca	gtttcaaagatgtgctctcgaacc	AB485971
MSE0108	(tc)6,(ta)8	agtccatggtgtgatgatcctt	gtttggagtaggattctgcagagc	FS948805
MSE0109	(tc)10	ataaaagacaataccatcccaggaa	gtttccagaagtgaagaagggtgtc	FS948318
MSE0110	(tc)11	atataatcgcggttccactcact	gtttgattcatgctattgaaggctt	FS950817
MSE0111	(tc)11	atatcagaagtgtggagagctct	gtttaccattgaggaatgcgtgactt	FS951008
MSE0112 <sup>a</sup>	(ag)5, (ag)3, (tc)3, (tg)3	atcagagtttccacatggacagt	gtttcatctctgcttctcccttc	FS947995
MSE0113	(tc)14	atccttctgcaactccagcaatcc	gtttgagattgaccatcttcatcgga	AB485972
MSE0114	(tc)14	atgctgtactcttccattctgc	gtttcttttcagtcactgctgtgggc	FS948705
MSE0115	(tc)7	attcacctagccctcgcatttcta	gtttgtcatctccatcatccattcca	FS948956
MSE0116	(tc)10	acacacttcacgctgcacttact	gtttgtcgcagtaaaccttaccctc	FS948104
MSE0117 <sup>a</sup>	(aca)3, (ag)4, (ag)3(tg)3	acacatgtaacctattacttagctc	gtttgaccaatggacggacaatatgac	FS948642
MSE0118	(ag)9	acacattaagcccaccgctctt	gtttaactgtagctgcacctggaacctc	FS949980

<sup>a</sup> All SSR motifs in these markers are less than 6 times repeats, but these markers were included in the analysis, because the total of repeats are more than 10.