

Table 1. List of the used locus-specific markers: primer sequence, reference, location on a genetic map, polymorphism revelation in our crosses and some PCR conditions used.

Locus	Primer sequence (5' → 3')	Reference	Marker type	Linkage group (Paglia et al. 1998)	PCR amplification	Polymorphism in at least one cross	Allele nul in cross 2735 x F2014	2735 F2014	2736 1957	2039 2702	T°	MgCl ₂
<i>Sb01</i>	<i>f</i> : GCG TTC CAG AAA TCC TAC TAC <i>r</i> : CCA AAT GCA CCA TAA ATA CAG	Perry and Bousquet (1998)	STS	-	in progress	in progress	in progress				55	2.5
<i>Sb06</i>	<i>f</i> : TAA GGC AAT TCT TCG GCT CAC <i>r</i> : ACT AAG ACA ACC ATT CTC TCC	Perry and Bousquet (1998)	STS	-	yes	yes	no	+	+	+	55	2.5
<i>Sb29</i>	<i>f</i> : AGC GGC ATT GAA CAG AGT AAC <i>r</i> : AAT GGA AAT GAA GGC AGA CTC	Perry and Bousquet (1998)	STS	-	yes	yes	no	++	-	++	55	2.5
<i>Sb32</i>	<i>f</i> : TGC TGT CTA CAC TGC TCA ATG <i>r</i> : CAG AAG CCT GAG GAT GTT ACC	Perry and Bousquet (1998)	STS	-	yes	yes	no	-	-	+	55	2.5
<i>Sb42</i>	<i>f</i> : GAA GCT TAA CAA GGC CGT ATG <i>r</i> : CCC AAA CAT AGG CAA TAA TCC	Perry and Bousquet (1998)	STS	-	yes	yes	no	++	+	++	55	2.5
<i>Sb56</i>	<i>f</i> : CTT TGG ACA CAA CTA AGA CTG <i>r</i> : TAG TGT CAC TCC ATC TGA AAC	Perry and Bousquet (1998)	STS	-	yes	yes	no	+(ns)	+	+	55	2.5
<i>Sb08</i>	<i>f</i> : TTC GAT GCT AGG TCT TGA GTC <i>r</i> : CAG AAA TTG GAA GTA AGA ACG	Perry and Bousquet (1998)	STS	-	yes	yes	no	++?	-	-	55	2.5
<i>Sb28</i>	<i>f</i> : CCA ACA AGA AAG CCA CGT CAG <i>r</i> : ACC AAC AAA CGC CCT CTT CAC	Perry and Bousquet (1998)	STS	-	yes	yes	no	++	+	+	55	2.5
<i>SB49</i>	<i>f</i> : AGG TCC TCC AAA AGT TCT GTG <i>r</i> : GCC TCA TGT TCC CAA AGT CTC	Perry and Bousquet (1998)	STS	-	yes	no	no	-	-	-	55	2.5
<i>Sb51</i>	<i>f</i> : TGA AAC AGA CTT CTC GTA CTG <i>r</i> : TTC TTA CGT AGC TGC TCT AAC	Perry and Bousquet (1998)	STS	-	yes	yes	no	-	-	+	55	2.5
<i>SB62</i>	<i>f</i> : GTA TTA CCC AGC TCA AGT TCC <i>r</i> : ACA GTA CGC CGC AGA CAA ATG	Perry and Bousquet (1998)	STS	-	yes	yes	no	-	+(ns?)	-	55	2.5
<i>SpAGC1</i>	<i>f</i> : TTC ACC TTA GCC GAG AAC C <i>r</i> : CAC TGG AGA TCT TCG TTC TGA	Pfeiffer et al. (1997)	Microsatellite	DO7	yes	yes	no	++	+	+	55	5
<i>SpAGC2</i>	<i>f</i> : TAC CAT TCA ACG CAA GGG <i>r</i> : GTG TAT GGT TTT CTT TTC GCA	Pfeiffer et al. (1997)	Microsatellite + SAMPL	C	yes	yes	no	++	+	++	48	5
<i>SpAGD1</i>	<i>f</i> : GTC AAC CAA CTT GTA AAG CCA <i>r</i> : ACT TGT TTG GCA TTT TCC C	Pfeiffer et al. (1997)	Microsatellite	B	yes	yes	no	++	++	++	55	1.25
<i>SpAGG3</i>	<i>f</i> : CTC CAA CAT TCC CAT GTA GC <i>r</i> : AGC ATG TTG TCC CAT ATA GAC C	Pfeiffer et al. (1997)	Microsatellite	B	yes	yes	no	++	++	nc	55	2.5
<i>SpAC1F7</i>	<i>f</i> : TTC CTC CAC TGC ATT CTA GC <i>r</i> : TGT TGG CCT TGC AAG TTA TAG	Pfeiffer et al. (1997)	Microsatellite	-	yes	yes	no	+	+	-	55	5
<i>SpAC1H8</i>	<i>f</i> : CCC AAG AAA AAA GTC ATG GAT <i>r</i> : TCA TTG GGA TAT GTG ATA CTT CC	Pfeiffer et al. (1997)	Microsatellite	S	yes	yes	no	++	++	++	55	5
<i>SpAC1B8</i>	<i>f</i> : TGA ATG TGT GCG TGT CTC TAA <i>r</i> : ATG GGT GCT CAC ACA AAG AT	Pfeiffer et al. (1997)	Microsatellite	D	yes	yes	no	++	++	++	47	3.5
<i>SpAC3</i>	<i>f</i> : TAC TCC TAC AAC ATG TCC TTG TAC <i>r</i> : AAA TCT AGG GTC AAA TGA ATC TAA	Pfeiffer et al. (1997)	Microsatellite	-	yes	yes	yes	++	+	nc	53	3.5
<i>SpAG2</i>	<i>f</i> : GCT CTT CAC GTG TAC TTG ATC <i>r</i> : TTC GAA GAT CCT CCA AGA TAC	Pfeiffer et al. (1997)	Microsatellite + SAMPL	-	yes	yes	no	+	+	+	47	3.5
<i>SpAG4</i>	<i>f</i> : TGG TCC TTG GGA TCA AAT C <i>r</i> : AAT GCA CTT GAC CCC CTA AT	Pfeiffer et al. (1997)	Microsatellite + SAMPL	-	yes	yes	yes	++	+	+	45	5
<i>SpAG6</i>	<i>f</i> : TTT CAT GTT GAA TGT TTG AAG TC <i>r</i> : GGA ACT TCT CTC ACT CAA GAA CA	Pfeiffer et al. (1997)	Microsatellite	-	yes	no	no	-	-	-	47	2.5
<i>SpAG11</i>	<i>f</i> : TTT TAG GTC ACC ATC ATC GC <i>r</i> : ATC AAA CTT TAC CGT TGA AAA TG	Pfeiffer et al. (1997)	Microsatellite + SAMPL	-	yes	yes	yes	++	++	++	50	2.5
<i>SpAGH1</i>	<i>f</i> : TAT TCT TAC TAA GCC AAT CCA AGG <i>r</i> : TCT TAT CGA AGG AAA GGA TAC G	Pfeiffer et al. (1997)	Microsatellite	J	yes	yes	no	++	++	++	55	3.5
<i>SpL3AG1A 4</i>	<i>f</i> : CAT ACT CAA TGC ACC TAG ATA TGC <i>r</i> : AAG CAA ATG AAA GCT CCT TGT	Pfeiffer et al. (1997)	Microsatellite	T	yes	yes	yes	++	++	++	55	5

Table 1, continued

Locus	Primer sequence (5' → 3')	Reference	Marker type	Linkage group (Paglia et al. 1998)	PCR amplification	Polymorphism in at least one cross	Allele nul in cross 2735 x F2014	2735 F2014	2736 1957	2039 2702	T°	MgCl ₂
<i>SpL3AG1H4</i>	f: GGA AAG GAG GAG GAC AAG AG r: TAA GGA TCG AGT CTC TCA CTC C	Pfeiffer et al. (1997)	Microsatellite +SAMPL	C	yes	yes	no	++	+	+	47	2.5 +5% DMSO
<i>SpAC1E8</i>	f: AAT TGC ATA TCT AGA AAC AAG ACA r: TCG TTT TAC ACG TTT TGC AGT	Pfeiffer et al. (1997)	SAMPL	-	yes	yes	yes	+	+	nc	48	5
<i>PAAC3</i>	f: CGC TAC CTC AGA TTT CTC CA r: AGA TAT TCC CTC ACA AAG TTG G	Scotti et al. (2000)	Microsatellite EST	-	yes	yes	no	++	++	++	55	5
<i>PAAC11</i>	f: GTA ATG AAA TGT GTG TGT GTG TGT GT r: AGT AGC GAG GGT GGA GAT GG	Scotti et al. (2000)	Microsatellite EST	-	yes	yes	no	+	-	-	50↓40	5
<i>PAAC13</i>	f: GAT ATT GAT GTA CGC ACT GG r: AAT TTT TTG AAC AAG AAG TTT TC	Scotti et al. (2000)	Microsatellite EST + SAMPL	-	yes	yes	no	++	++	+	50	2.5
<i>PAAC17</i>	f: GAA ACA AAA ATT ATT ACG CG r: ATG CCC TCC TAA TGA ATG	Scotti et al. (2000)	Microsatellite EST	-	yes	yes	no	++	++	+	53	5
<i>PAAC19</i>	f: ATG GGC TCA AGG ATG AAT G r: AAC TCC AAA CGA TTG ATT TCC	Scotti et al. (2000)	Microsatellite EST	-	yes	yes	no	++	++	++	53	5
<i>PAAC23</i>	f: TGT GGC CCC ACT TAC TAA TAT CAG r: CGG GCA TTG GTT TAC AAG AGT TGC	Scotti et al. (2000)	Microsatellite EST	-	yes	yes	no	++	+	+	58	5
<i>PGL7</i>	f: TCA CTA TTT ATT TCC CAA ATG CTC GTA r: TCT CCN CAA GAA ATC CNC CCT C	Rajora et al. (2001)	Microsatellite	-	no	-	-	-	-	-	60↓54 45	2.5 3.5
<i>PGL13</i>	f: AAA AAT AGT TTA TAT TTT CTT TAT TAC TC r: TAT AAA TCA TTT TTC TTA TGT TGT G	Rajora et al. (2001)	Microsatellite	-	yes	yes	yes	++	-	++	42	3
<i>PGL14</i>	f: AAA AAT GAT TTA TAT CTT CTT ATT GTC T r: GNG TCA TAA ACG CCC ATC AAT AG	Rajora et al. (2001)	Microsatellite	-	yes	yes	yes	++	++	+	42	1.25
<i>PGL15</i>	f: CAT ACT CTC ACA TCC ACA CCC TCT C r: CAA GAA CAG AAG AGA GGT CAA GAT TG	Rajora et al. (2001)	Microsatellite	-	yes	yes	no	++	++	++	60↓54	2.5
<i>UAPgCT3</i>	f: TTG AAA AAG AGG TTA GGA AGG GA r: TTC TTA AAG AAG CAG GGC ATT G	Hodgetts et al. (2001)	Microsatellite	-	no	-	-	-	-	-	50 45	2.5 3.5
<i>UAPgCT144</i>	f: CAC TCG ATC ACT TTC TCA TC r: CAA GAT AGT AAT GGT GAG GC	Hodgetts et al. (2001)	Microsatellite	-	yes	?	-	-	nc	nc	50	3.5
<i>UAPgGT8</i>	f: AAT GCT TGG TGC ATA AGG r: AAC ACT GTG GTT CTT CCG	Hodgetts et al. (2001)	Microsatellite	-	yes	yes	no	++	++	+	45	3.5
<i>UAPgCA24</i>	f: ATG CTC TTC TTA ACC ACC TG r: GAC AAT TCC TAC CTC CAC AC	Hodgetts et al. (2001)	Microsatellite	-	yes	yes	yes	+	++	+	52	2.5
<i>UAPgCA91</i>	f: TCT GTT CTT CAT ACG TCT CAC r: GGA AAT TGG CAC TCT GTA TTC	Hodgetts et al. (2001)	Microsatellite +SAMPL	-	yes	yes	yes	++	++	nc	52	3.5
<i>UAPsTG25</i>	f: TCA AGC TCT CCA ACC GAG AT r: TGT CGA GTT TGA ACT TGT TAC CAA	Hodgetts et al. (2001)	Microsatellite	-	yes	yes	-	-	+ / ++	+	50	2.5
<i>UAPgTG64</i>	f: AAT TTC CTT CCT CTA TGT CGA C r: CAA TAT GAT GTG TAA TTC CTT CC	Hodgetts et al. (2001)	Microsatellite	-	yes	?	-	-	nc	nc	50	3.5
<i>UAPgAG150A</i>	f: ACC AAT GCT TTT ACC AAA CG r: TTG ATT GCA AGT GAT GGT TG	Hodgetts et al. (2001)	Microsatellite	-	yes	yes	no	++	++	++	50	2.5
<i>UAPgAG150B</i>	As above	Hodgetts et al. (2001)	Microsatellite	-	yes	yes	no	-	+	-	50	2.5
<i>EAC1F04</i>	f: TGT AAG TCT GCT TGA AGG TGG r: CAG ATG GGG GTT GGG TAT	Scotti et al. (2002)	Microsatellite	K	yes	yes	no	++	++	nc	55	5
<i>EAC6A06</i>	f: AAT TAA GGG GTA ATG TGC CAC r: AAT GAT GTT AAA GCA ATA TGT CTT G	Scotti et al. (2002)	Microsatellite	A	yes	yes	yes	++	++	nc	55	5
<i>EAC6B02</i>	f: ACT CTG TGT TGT TTG ATT ACA ACT C r: ACC GCG GAA CAT ACA TAT ACA	Scotti et al. (2002)	Microsatellite	F	yes	no	?	-	?	?	55 48	3.5 5
<i>EAC6E02</i>	f: CGC ACA GCC AAA CAA ACT r: TGT GAT GAA CTG TTA GTA TGC ATG	Scotti et al. (2002)	Microsatellite + SAMPL	-	yes	yes	yes	++	++	nc	55	2.5
<i>EAC6F04</i>	f: CTT AGA CGG TGC TTG CAT G r: TCG CAT GTG TGC ATA ATA AGA	Scotti et al. (2002)	SAMPL	-	yes	yes	yes	+	+	nc	55	3.5

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<i>EAC6G08</i>	<i>f</i> : AAT TTA GAT GAT ATT GAA TAC ATA CA <i>r</i> : CAT ACA TTC ATC AAC AGA AAA	Scotti et al. (2002)	Microsatellite	J	no	-	-	-	-	-	55 48	3.5 5
<i>EAC7B09</i>	<i>f</i> : TGT GTT GTG TTT GTT GTC GAG <i>r</i> : GAC GCA TAA CCA GTG CAA TAT	Scotti et al. (2002)	Microsatellite + SAMPL	-	yes	yes	yes	++	+	nc	55	3.5
<i>EAC1D10</i>	<i>f</i> : ACG ATG TGG TAT GTA CAT GGA <i>r</i> : CAA TGC ACA CTG AAC ATC AAA	Scotti et al. (2002)	Microsatellite	DO7	yes	yes	no	++	++	nc	52	3
<i>EAC7D10</i>	<i>f</i> : AAG GGT GTT ATT CAA AAC ATG A <i>r</i> : AGC CTT CGT ATG TTC AAA TAA A	Scotti et al. (2002)	Microsatellite + SAMPL	V	yes	yes	yes	+	+	nc	55	3.5
<i>EAC6F5</i>	<i>f</i> : ATC CTA TTG ACA ATG GCT ACT <i>r</i> : AAT ATA GAT CCT ACA CAA CAT CG	Scotti et al. (2002)	Microsatellite + SAMPL	-	yes	yes	yes	++	++	nc	52	2.5
<i>EAC7H07</i>	<i>f</i> : GGT TCA AAC CTC CCA CCT AC <i>r</i> : ACC AAC TAA GCC ACA AGT GC	Scotti et al. (2002)	Microsatellite	DO4	yes	yes	no	++	++	nc	53	2.5
<i>EACC6C2</i>	<i>f</i> : TAC TAC TAG GTC GAC CCT ATT TCA <i>r</i> : ACC CAA GGG GGG AAT ATA TAG	Scotti et al. (2002)	Microsatellite + SAMPL	-	yes	yes	yes	+	?	nc	52	3.5
<i>EAC6B01</i>	<i>f</i> : ACC CAC CAA CAC CAT AAC C <i>r</i> : TTG AAG TGC ACA ATT GAA CTG A	Scotti et al. (2002)	Microsatellite + SAMPL	-	yes	yes	yes	++ / +	+	nc	55	3
<i>EAC6E09</i>	<i>f</i> : CCC CTC CAA TAT TTA TGC <i>r</i> : CCT TTT GTT ATA GAA GAT AAT GTG	Scotti et al. (2002)	Microsatellite	L	yes	yes	no	++	++	nc	53	2.5
<i>EAC1G5</i>	<i>f</i> : TGA ATA GTT GGT TAT TTT TTC C <i>r</i> : CAT TGT GAA TCA TTC TGT CTC	Scotti et al. (2002)	Microsatellite	T	yes	yes	no	++	++	nc	52	3.5
<i>EAC7F8</i>	<i>f</i> : AAT TCA TTA GAA ATA CAT GTT GCG <i>r</i> : AAT TTG TAA CCT CCC CAA CC	Scotti et al. (2002)	Microsatellite	H	yes	yes	yes	+	?	nc	42	5
<i>NACB06</i>	<i>f</i> : CTC GTG CCC AAT ATA CAA GTG <i>r</i> : GTA GTC TCC AGA GCA TCA AAG C	Scotti et al. (2002)	Microsatellite + SAMPL	F	yes	yes	no	++	+	nc	53	3.5
<i>NACG7</i>	<i>f</i> : GTT GGG CAA AAG AGA ATA ACC <i>r</i> : TGC GAT TTT TGT CGT CTT TAG	Scotti et al. (2002)	Microsatellite + SAMPL	E	yes	yes	yes	++	++	nc	58↓42	2.5
<i>EAC7F10</i>	<i>f</i> : TCC ACA AAT AAT ATA ACA CTA TAC A <i>r</i> : TTC CAT TTG TCT TTG TTT GTA	Scotti et al. (2002)	Microsatellite	G	yes	yes	yes	++	++	nc	53	2.5
<i>EAC7F6</i>	<i>f</i> : AAT CCC AAA AAG AAC TTA GC <i>r</i> : TCG CAT ATG AGT TTT TCG	Scotti et al. (2002)	Microsatellite + SAMPL	-	yes	yes	yes	++	+	nc	52	3.5
<i>EATC3G4</i>	<i>f</i> : ATG ATT TCA TTT CGA TTA TGG G <i>r</i> : CAC ACT CAG GAA AAC CCA TC	Scotti et al. (2003)	Microsatellite + SAMPL	-	yes	yes	yes	+	++	nc	58↓42	2.5
<i>EATC1B02</i>	<i>f</i> : TGG CAT GAG ATT TAT GTG GTT <i>r</i> : GTG TGC CAC TCA ACC TCAC	Scotti et al. (2003)	Microsatellite	-	yes	?	no	-	nc	nc	58↓42	2.5
<i>EATC2B02</i>	<i>f</i> : GAT GGA TCT ATG TTG GTT CAC C <i>r</i> : TTG GTC TCA AGG GAA GTT AAT C	Scotti et al. (2003)	Microsatellite	-	yes	yes	yes	++	++	nc	58↓42	2.5
<i>EATC1D02</i>	<i>f</i> : TTGTCATCGTCGTCATGTGTC <i>r</i> : TTT TAG CCT CTG TTT TCT AGC G	Scotti et al. (2003)	Microsatellite	-	yes	yes	no	++	++	nc	57	3
<i>EATC2C01</i>	<i>f</i> : AGCTACCACGTCAAACCTTG <i>r</i> : CTTATACAATCCCCGACTCCC	Scotti et al. (2003)	Microsatellite	-	yes	yes	no	++	++	nc	53	2.5
<i>EATC1F7B</i>	<i>f</i> : AAC CTC TAA TAC GCC AAC TCC <i>r</i> : ATG GAA ACT GCG ATG ACA AT	Scotti et al. (2003)	Microsatellite + SAMPL	-	yes	yes	yes	++	++	nc	58↓42 50	2.5
<i>prGB1</i>	<i>f</i> : GTG AGT GTT GGG AGA GTC AC <i>r</i> : AGG TAT CGA TCC TGC TCG TC	Besnard et al. (in prep.)	Microsatellite EST	-	yes	no	no	-	-	-	55	3.5
<i>paGB3</i>	<i>f</i> : AGT GAT TAA ACT CCT GAC CAC <i>r</i> : CAC TGA ATA CAC CCA TTA TCC	Besnard et al. (in prep.)	Microsatellite EST	-	yes	yes	no	++	++	++	55	2.5
<i>pgGB5</i>	<i>f</i> : CCA TTG CGG AGA ACC CAG AG <i>r</i> : CGC AGA ACA ATG AAT CTC CAC	Besnard et al. (in prep.)	Microsatellite EST	-	yes	yes	no	++	++	++	45	5

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<i>pgGB7</i>	<i>f</i> : GAT GAT GAA TTT CAG AGG CAT C <i>r</i> : GTA CCA ATT AAG AGA GAA TGC C	Besnard et al. (in prep.)	Microsatellite EST	-	yes	yes	no	+	+	+	57	2.5
<i>paGB8</i>	<i>f</i> : AGC ATG TAC AAA ATG AAG ATT CTC <i>r</i> : CCC TTT AGT GTT TTC TCT TTC TAC	Besnard et al. (in prep.)	Microsatellite	-	yes	yes	no	++	++	++	55	2.5
<i>pgGB11</i>	<i>f</i> : GCA AGA TAT TCT AAT GTT GGG <i>r</i> : GTA TAA AAG ACT GAA CTT TCA TAT C	Besnard et al. (in prep.)	Microsatellite EST	-	yes	no	no	-	-	-	55	2.5
<i>pgGB16</i>	<i>f</i> : GTT TAC GAA GGG AAT GCG GG <i>r</i> : CTG GTT GGG AAA GCT CAC GAG	Besnard et al. (in prep.)	Microsatellite EST	-	yes	yes	no	-	-	+	55	2.5
<i>SC011</i>	<i>f</i> : AAG CTG CGA GGG AGA AGC <i>r</i> : AAG CTG CGA GCA CAA TAG AGG	Scotti et al. (1998)	SCAR	B	yes	yes	-	-	-	+	67	2.5
<i>SC045</i>	<i>f</i> : CCA CTC ACC GCT TGA CTA ACT AGG <i>r</i> : CCA CTC ACC GAC GTG GGG GGA TGC	Scotti et al. (1998)	SCAR	A	yes	no	-	-	-	-	62	2.5
<i>SC108</i>	<i>f</i> : GTA GTC TCG CAA GGT CGC G <i>r</i> : GTA GTC TCG CGT AAT CAT TAA GGG	Scotti et al. (1998)	SCAR	O	yes	yes	-	-	-	+	62	2.5
<i>SC124</i>	<i>f</i> : GAA ACG GGT GTA TTA TAT TAC AAC TAC <i>r</i> : GAA ACG GGT GCA TAG AAT C	Scotti et al. (1998)	SCAR	I	yes	yes	-	-	+	-	55	2.5
<i>SC126</i>	<i>f</i> : GTG ACG TAG GAG GGG GTA GTT C <i>r</i> : GTG ACG TAG GAA AGT TGT GTC G	Scotti et al. (1998)	SCAR	F	yes	yes	-	+	+	-	55	2.5
<i>9076</i>	<i>f</i> : AGA ATT TAC TGG CCG CTC G <i>r</i> : CTC TAT TGC AAA AAT GTG CCA C	Temesgen et al. (2001)	STS	-	yes	yes	no	+(ns)	++	-	55	2.5

nc = not-checked

ns = not-segregating polymorphism (due to homozygosity)