

Supporting Table S1: Microsatellite genotypes of parents and offspring as well as inferred parents (for offspring only). Potential parents indicate the parental clones that were placed in the buckets from which the offspring was obtained. B008 to B135 are the nine microsatellite loci used in this study (MOLECULAR ECOLOGY RESOURCES PRIMER DEVELOPMENT CONSORTIUM *et al.* 2011), with genotypes indicated by fragment lengths. (Table continued on next pages).

A. Microsatellite genotypes of parent clones.

Clone ID	MP/NMP	Bucket(s)	B008	B030	B045	B050	B064	B074	B096	B107	B135
1MDM6	NMP	V01, V06	165/167	157/160	120/122	234/240	142/146	198/198	243/245	262/270	
AST-01-04	NMP	B20, B23, B26, V04, V10, V12	163/163	155/157	122/122	237/240	138/144	198/200	239/245	272/278	187/191
BN-08	NMP	V12	167/167	157/157	122/122	228/242		198/200	241/241	266/266	
BN-48	NMP	V05	163/179	159/159	120/122	228/245	140/140	200/200	239/241	270/272	
MOS-01-02	NMP	V09, V17	163/172	155/163	122/122	237/240	138/138	196/198	241/241	270/270	
MOS-01-04	NMP	B20, B23, B26, V12, V18	167/172	160/160	122/122	232/232	144/144	198/198	241/241	270/278	189/191
RM1-02	NMP	V21	167/167	155/160	122/122	235/235	144/146	198/200	243/243	268/280	
VV2	NMP	B20, B23, B26, V01, V02, V05, V06, V08, V09, V12	157/165	153/157	122/122	226/244	138/144	198/202	239/243	270/270	187/189
RM1-18	MP	B22, B25, B28	167/172	155/155	127/127	237/237					187/191
RM1-22	MP	B22, B25, B28	161/167	155/160	122/122	232/232					191/191
RM1-35	MP	B22, B25, B28	172/172	155/160	120/122	237/237					189/189
RM1-39	MP	B22, B25, B28	167/169	155/155	122/122	232/242					189/189

B. Microsatellite genotypes of offspring.

Hatchling ID	Treatment	Bucket ID	Potential parents	B008 25 cM	B030 33 cM	B045	B050	B064	B074	B096	B107	B135	Parent1	Parent2	Outcrossed
V02-01	NMP_single	V02	VV2	165/165	153/157	122/122	226/244	138/138	198/202	239/243	270/270		VV2		No
V02-03	NMP_single	V02	VV2	157/157	153/157	122/122	226/244	144/144	198/198	243/243	270/270		VV2		No
V04-01	NMP_single	V04	AST-01-04	163/163	155/157	122/122	237/240	138/144	198/200	239/239	272/278		AST-01-04		No
V04-02	NMP_single	V04	AST-01-04	163/163	155/157	122/122	237/240	138/138	198/200	239/245	278/278		AST-01-04		No
V04-03	NMP_single	V04	AST-01-04	163/163	157/157	122/122	237/240	138/144	198/200	245/245	272/272		AST-01-04		No
V04-05	NMP_single	V04	AST-01-04	163/163	157/157	122/122	237/240	138/144	198/200	239/239	272/278		AST-01-04		No
V04-06	NMP_single	V04	AST-01-04	163/163	155/157	122/122	237/240	138/144	198/200	245/245	272/278		AST-01-04		No
V04-11	NMP_single	V04	AST-01-04	163/163	155/157	122/122	237/237	144/144	198/200	245/245			AST-01-04		No
V04-14	NMP_single	V04	AST-01-04	163/163	157/157	122/122	237/240	138/144			272/278		AST-01-04		No
V04-18	NMP_single	V04	AST-01-04	163/163	155/157	122/122	237/240	138/138	198/200	239/239	272/272		AST-01-04		No
V04-19	NMP_single	V04	AST-01-04	163/163	157/157	122/122	237/240	144/144	198/200	245/245			AST-01-04		No
V04-22	NMP_single	V04	AST-01-04	163/163	155/157	122/122	237/240	144/144	198/200	239/239	272/272		AST-01-04		No
V04-23	NMP_single	V04	AST-01-04	163/163	155/157	122/122	237/240	138/138	198/200	239/245	272/278		AST-01-04		No
V04-24	NMP_single	V04	AST-01-04	163/163	155/157	122/122	237/240	138/144	198/200	245/245	272/278		AST-01-04		No
V04-25	NMP_single	V04	AST-01-04	163/163	155/157	122/122	237/240	138/138	198/200	239/239	272/278		AST-01-04		No
V04-27	NMP_single	V04	AST-01-04	163/163	157/157	122/122	237/240	138/144	198/200	239/239	272/278		AST-01-04		No
V08-01	NMP_single	V08	VV2	165/165	153/153	122/122	244/244	138/144	198/202	239/243	270/270		VV2		No
V08-02	NMP_single	V08	VV2	157/157	157/157	122/122	226/244	138/144	198/198	239/239	270/270		VV2		No
V08-03	NMP_single	V08	VV2	165/165	153/157	122/122	226/244	138/144	198/202	239/243	270/270		VV2		No
V10-01	NMP_single	V10	AST-01-04	163/163	155/157	122/122	240/240	138/144	198/198	239/245	272/278		AST-01-04		No
V10-02	NMP_single	V10	AST-01-04	163/163	155/157	122/122	237/237	138/144	198/200	239/245	272/278		AST-01-04		No
V10-03	NMP_single	V10	AST-01-04	163/163	155/157	122/122	237/237	138/144	198/200	239/245	272/278		AST-01-04		No
V21-03	NMP_single	V21	RM1-02	167/167	160/160	122/122	235/235	146/146	198/200	243/243	268/280		RM1-02		No
V21-04	NMP_single	V21	RM1-02	167/167	160/160	122/122	235/235	144/146	200/200	243/243	268/268		RM1-02		No

Table S1B continued.

Hatchling ID	Treatment	Bucket ID	Potential parents	B008	B030	B045	B050	B064	B074	B096	B107	B135	Parent1	Parent2	Outcrossed
V21-05	NMP_single	V21	RM1-02	167/167	160/160	122/122	235/235	144/146	200/200	243/243	268/280		RM1-02		No
V21-07	NMP_single	V21	RM1-02	167/167	155/160	122/122	235/235	144/144	198/200	243/243	268/268		RM1-02		No
V21-08	NMP_single	V21	RM1-02	167/167	160/160	122/122	235/235	144/146	198/200	243/243	280/280		RM1-02		No
V01-02	NMP_mix	V01	1MDM6, VV2	157/165	153/153	122/122	226/244	138/144	198/202	239/243	270/270		VV2		No
V01-06	NMP_mix	V01	1MDM6, VV2	165/165	157/157	122/122	226/244	138/138	198/198	239/243			VV2		No
V01-07	NMP_mix	V01	1MDM6, VV2	157/165	153/157	122/122		138/144					VV2		No
V05-01	NMP_mix	V05	BN-48, VV2	165/165	153/157	122/122	226/244	138/138	198/202	239/243	270/270		VV2		No
V05-02	NMP_mix	V05	BN-48, VV2	157/165	153/157	122/122	244/244	138/138	198/202	239/239	270/270		VV2		No
V05-04	NMP_mix	V05	BN-48, VV2	165/165	157/157	122/122	226/244	138/144	198/202		270/270		VV2		No
V05-05	NMP_mix	V05	BN-48, VV2	165/165	153/153	122/122	226/244	138/138	198/202		270/270		VV2		No
V05-07	NMP_mix	V05	BN-48, VV2	165/165	153/153	122/122	226/226	144/144	198/202	239/243	270/270		VV2		No
V05-09	NMP_mix	V05	BN-48, VV2	157/165	153/157	122/122	226/244	144/144	198/202		270/270		VV2		No
V05-10	NMP_mix	V05	BN-48, VV2	165/165	153/153	122/122	226/244	138/144	198/198	243/243	270/270		VV2		No
V06-01	NMP_mix	V06	1MDM6, VV2	165/167	157/160	122/122		142/146	198/198				1MDM6		No
V09-06	NMP_mix	V09	MOS-01-02, VV2	157/165	153/157	122/122	226/244	144/144	202/202	243/243	270/270		VV2		No
V09-09	NMP_mix	V09	MOS-01-02, VV2	157/165	153/157	122/122	244/244	138/144	198/202	239/243	270/270		VV2		No
V09-10	NMP_mix	V09	MOS-01-02, VV2	157/165	153/157	122/122	226/226	138/144	198/198	239/239	270/270		VV2		No
V12-01	NMP_mix	V12	AST-01-04, BN-08, MOS-01-04, VV2	157/165	153/157	122/122	244/244	138/138	198/202	239/243	270/270		VV2		No
V12-02	NMP_mix	V12	AST-01-04, BN-08, MOS-01-04, VV2	167/167	160/160	122/122	232/232	144/144	198/198	241/241	270/270		MOS-01-04		No
V17-01	NMP_mix	V17	MOS-01-02, MOS-01-04	167/172	160/160	122/122	232/232	144/144	198/198	241/241	270/270		MOS-01-04		No
V17-02	NMP_mix	V17	MOS-01-02, MOS-01-04	167/167	160/160	122/122	232/232	144/144	198/198	241/241	270/278		MOS-01-04		No
V17-03	NMP_mix	V17	MOS-01-02, MOS-01-04	167/172	160/160	122/122	232/232	144/144	198/198	241/241	270/278		MOS-01-04		No
V17-04	NMP_mix	V17	MOS-01-02, MOS-01-04	172/172	160/160	122/122	232/232	144/144	198/198	241/241			MOS-01-04		No

Table S1B continued.

Hatchling ID	Treatment	Bucket ID	Potential parents	B008	B030	B045	B050	B064	B074	B096	B107	B135	Parent1	Parent2	Outcrossed
B20-01	NMP_mix	B20	AST-01-04, MOS-01-04, VV2	167/172	160/160	122/122	232/232					189/191	MOS-01-04		No
B23-01	NMP_mix	B23	AST-01-04, MOS-01-04, VV2	167/167	160/160	122/122	232/232					189/189	MOS-01-04		No
B23-02	NMP_mix	B23	AST-01-04, MOS-01-04, VV2	157/165	153/157	122/122	226/244					187/189	VV2		No
B23-03	NMP_mix	B23	AST-01-04, MOS-01-04, VV2	172/172	160/160	122/122	232/232					191/191	MOS-01-04		No
B26-01	NMP_mix	B26	AST-01-04, MOS-01-04, VV2	163/163	157/157	122/122	237/240					187/191	AST-01-04		No
B22-11	MP_mix	B22	RM1-18, RM1-22, RM1-35, RM1-39	167/172	155/155	122/127	232/232					187/191	RM1-18	RM1-22	Yes
B22-12	MP_mix	B22	RM1-18, RM1-22, RM1-35, RM1-39	167/169	155/155	122/122	232/232					189/191	RM1-22	RM1-39	Yes
B22-13	MP_mix	B22	RM1-18, RM1-22, RM1-35, RM1-39	167/169	155/160	122/122	232/232					189/191	RM1-22	RM1-39	Yes
B22-14	MP_mix	B22	RM1-18, RM1-22, RM1-35, RM1-39	167/172	155/155	122/122	232/237					189/191	RM1-22	RM1-35	Yes
B22-15	MP_mix	B22	RM1-18, RM1-22, RM1-35, RM1-39	167/169		122/122						189/191	RM1-22	RM1-39	Yes
B22-16	MP_mix	B22	RM1-18, RM1-22, RM1-35, RM1-39	161/172		122/127						187/191	RM1-18	RM1-22	Yes
B22-17	MP_mix	B22	RM1-18, RM1-22, RM1-35	167/167		122/127						191/191	RM1-18	RM1-22	Yes
B22-18	MP_mix	B22	RM1-18, RM1-22, RM1-35	167/172		120/127						189/191	RM1-18	RM1-35	Yes
B25-11	MP_mix	B25	RM1-18, RM1-22, RM1-35	167/169	155/155	122/122						189/191	RM1-22	RM1-39	Yes
B25-12	MP_mix	B25	RM1-18, RM1-22, RM1-35	167/169	155/155	122/127	237/242					187/189	RM1-18	RM1-39	Yes
B25-13	MP_mix	B25	RM1-18, RM1-22, RM1-35	167/169	155/155	122/122	232/232					189/191	RM1-22	RM1-39	Yes
B25-14	MP_mix	B25	RM1-18, RM1-22, RM1-35		155/160							189/189	RM1-35	RM1-39	Yes
B25-15	MP_mix	B25	RM1-18, RM1-22, RM1-35	161/167		122/122						191/191	RM1-22		No
B25-16	MP_mix	B25	RM1-18, RM1-22, RM1-35	167/169		122/122						189/191	RM1-22	RM1-39	Yes

Table S1B continued.

Hatchling ID	Treatment	Bucket ID	Potential parents	B008	B030	B045	B050	B064	B074	B096	B107	B135	Parent1	Parent2	Outcrossed
B25-17	MP_mix	B25	RM1-18, RM1-22, RM1-35	167/169		122/122						189/191	RM1-22	RM1-39	Yes
B25-18	MP_mix	B25	RM1-18, RM1-22, RM1-35			120/122						189/191	RM1-22	RM1-35	Yes
B28-11	MP_mix	B28	RM1-18, RM1-22, RM1-35	161/172	155/155	122/127	232/237					191/191	RM1-18	RM1-22	Yes
B28-12	MP_mix	B28	RM1-18, RM1-22, RM1-35	161/172	155/160	122/127	232/237						RM1-18	RM1-22	Yes
B28-13	MP_mix	B28	RM1-18, RM1-22, RM1-35	169/172	155/155	122/122	237/242						RM1-35	RM1-39	Yes
B28-14	MP_mix	B28	RM1-18, RM1-22, RM1-35	161/167	155/155	122/127	232/237					187/191	RM1-18	RM1-22	Yes
B28-17	MP_mix	B28	RM1-18, RM1-22, RM1-35	167/172		122/127						189/191	RM1-18	RM1-35 or RM1-39	Yes
B28-18	MP_mix	B28	RM1-18, RM1-22, RM1-35	167/167		122/127						191/191	RM1-18	RM1-22	Yes
B28-19	MP_mix	B28	RM1-18, RM1-22, RM1-35	161/172		122/122						189/191	RM1-22	RM1-35	Yes
B28-20	MP_mix	B28	RM1-18, RM1-22, RM1-35	167/172		122/127						191/191	RM1-18	RM1-22	Yes