

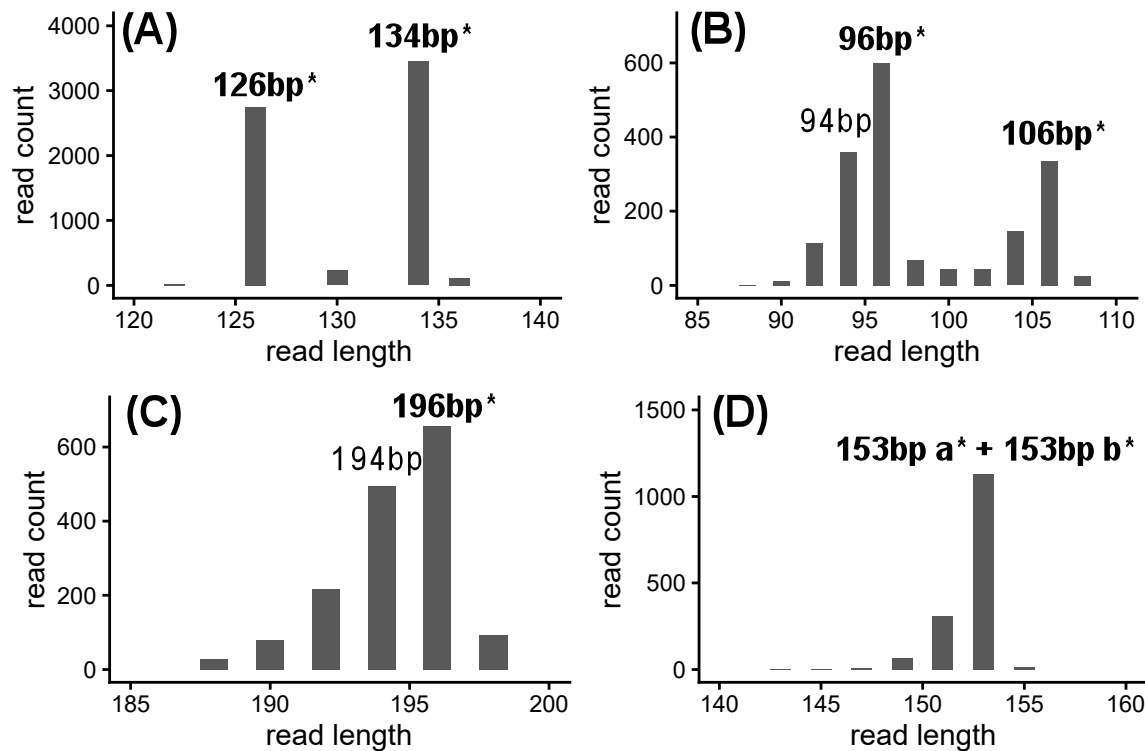


Fig. S1. Histograms of read counts and lengths illustrating manual curation. The asterisk indicates the peak identified as the true allele.

(A) Automatic genotyping yielded reliable results (TMS62, offspring 13 in family 1). Because there are few PCR by-products, the two most abundant sequences directly correspond to the genotype.

(B) Automatic genotyping did not perform reliably (Ttab34, offspring 4 in family 3). Because many PCR by-products were present, the peak corresponding to the true allele was lower than those of the by-products. In this case, automatic genotyping based on the rank order of read counts failed, and manual curation was required (automatic call: 94/96; after curation: 96/106). By-products were identified by sequence comparison. Sequence comparison showed that the 94-bp peak differed from the 96-bp peak only in the number of repeat units, whereas the 106-bp peak carried a single nucleotide polymorphism (SNP) in the flanking region. Thus, the 94-bp peak was likely a PCR by-product, and the 106-bp peak was interpreted as a true allele.

(C) Automatic genotyping did not perform reliably (Ttab47, father in family 6). Here, the large number of PCR by-products can cause homozygous individuals to be misclassified as heterozygous. In the automatic calling procedure, heterozygotes and homozygotes were distinguished using a fixed threshold (33%); however, the amount of by-products varied among loci and alleles, so borderline cases had to be curated manually (automatic call: 194/196; after curation: 196). As in (B), because the 196-bp and 194-bp sequences differed only in the number of repeat units, the 194-bp peak was therefore regarded as a PCR by-product.

(D) Size homoplasmy occurred (Ttab48, mother in family 3). The 153-bp size class comprised two distinct sequence variants (153a and 153b). These cannot be discriminated from the histogram alone, so we instead referred to separately generated sequence frequency tables.

Table S1. Primer list used in the 1st and 2nd PCR.

Name	step	tag-primer
TMS63f	1st	CAATGCATCAATGCGTGATCTTCGCAGAGAAAGGAC
TMS63r	1st	TGCTCTTCCGATCTGACAGACTTCTGCGGAAAAGGC
TMS62f	1st	CAATGCATCAATGCGGTGCCCTCGCTGCTTTCTGTCT
TMS62r	1st	TGCTCTTCCGATCTGACGAGAGAGACGCGGAGGTGTCC
T.tab-6f	1st	CAATGCATCAATGCGTGCACGCAAAACACTCTCTCCA
T.tab-6r	1st	TGCTCTTCCGATCTGACAGTGGCGTCTGTGTTGAGAA
T.tab-20f	1st	CAATGCATCAATGCGTGACCGGAAGCTTTCAAATCG
T.tab-20r	1st	TGCTCTTCCGATCTGACAATAAACCGTCGCGGAGACT
T.tab-24f	1st	CAATGCATCAATGCGTGGTAGAGCAGCACCGATAGGG
T.tab-24r	1st	TGCTCTTCCGATCTGACCAGCCAGGACAACAGAGTGA
T.tab-27f	1st	CAATGCATCAATGCGTGAAGGTCAGGCATTGCGTTAT
T.tab-27r	1st	TGCTCTTCCGATCTGACTACAAAGCGAGGACTCAGCA
T.tab-29f	1st	CAATGCATCAATGCGGTTCATTTGCAGTGGCAACTAT
T.tab-29r	1st	TGCTCTTCCGATCTGACGAGTCTGCGTCGTGGATATG
T.tab-33f	1st	CAATGCATCAATGCGGTGTCGTGGCATGACTCAAACG
T.tab-33r	1st	TGCTCTTCCGATCTGACCCTCGGAACAAGGAGCCAG
T.tab-34f	1st	CAATGCATCAATGCGGTGTTTGCTGTCCCTCGAAGCG
T.tab-34r	1st	TGCTCTTCCGATCTGACCGATTCCATGTTTGTCTAAGAGTCC
T.tab-47f	1st	CAATGCATCAATGCGGTTCCTCGCGTGCCCTATG
T.tab-47r	1st	TGCTCTTCCGATCTGACGTCGTGTAGCTGGAAGTGC
T.tab-48f	1st	CAATGCATCAATGCGGTGTCGAACGGCTGGTGTGAAG
T.tab-48r	1st	TGCTCTTCCGATCTGACGCGACCATTCGCGGTTT
T.tab-49f	1st	CAATGCATCAATGCGTGCGGACATGCGACATTCACC
T.tab-49r	1st	TGCTCTTCCGATCTGACCGGAATTCGGAGCGAGCC
MIG-F1-AACCC	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTAACCCCAATGCATCAATGCGTG
MIG-F2-AAGGG	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTAAGGGCAATGCATCAATGCGTG
MIG-F4-ACCAT	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTACCATCAATGCATCAATGCGTG
MIG-F5-ACGTA	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTACGTACAATGCATCAATGCGTG
MIG-F6-ACTGC	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTACTGCCAATGCATCAATGCGTG
MIG-F7-AGAGT	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTAGAGTCAATGCATCAATGCGTG
MIG-F9-AGGAC	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTAGGACCAATGCATCAATGCGTG
MIG-F11-ATCGA	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTATCGACAATGCATCAATGCGTG
MIG-F12-ATGCT	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTATGCTCAATGCATCAATGCGTG
MIG-F13-ATTAG	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTATTAGCAATGCATCAATGCGTG
MIG-F22-CTAGG	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTCTAGGCAATGCATCAATGCGTG
MIG-F24-CTTCC	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTCTTCCCAATGCATCAATGCGTG
MIG-F30-GCTAA	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTGCTAACAATGCATCAATGCGTG
MIG-F34-GTCAC	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTGTACCAATGCATCAATGCGTG
MIG-F38-TACGT	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTACGTCAATGCATCAATGCGTG
MIG-F39-TAGCA	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTAGCACAATGCATCAATGCGTG
MIG-F40-TCAGA	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTCAGACAATGCATCAATGCGTG

MIG-F41-TCCTC	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTCTCCAATGCATCAATGCGTG
MIG-F42-TCGAG	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTCGAGCAATGCATCAATGCGTG
MIG-F43-TCTCT	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTCTCTCAATGCATCAATGCGTG
MIG-F44-TGACC	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTGACCCAATGCATCAATGCGTG
MIG-F45-TGCAA	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTGCAACAATGCATCAATGCGTG
MIG-F48-TTAAT	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTAATCAATGCATCAATGCGTG
MIG-F49-TTCCG	2 nd	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTTCCGCAATGCATCAATGCGTG
R701_reverse_index_primer	2 nd	CAAGCAGAAGACGGCATACGAGATCGTGATGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTGAC
R703_reverse_index_primer	2 nd	CAAGCAGAAGACGGCATACGAGATGCCTAAGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTGAC
R711_reverse_index_primer	2 nd	CAAGCAGAAGACGGCATACGAGATGTAGCCGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTGAC
R716_reverse_index_primer	2 nd	CAAGCAGAAGACGGCATACGAGATGGACGGGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTGAC
R717_reverse_index_primer	2 nd	CAAGCAGAAGACGGCATACGAGATCTCTACGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTGAC
R718_reverse_index_primer	2 nd	CAAGCAGAAGACGGCATACGAGATGCGGACGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTGAC
R719_reverse_index_primer	2 nd	CAAGCAGAAGACGGCATACGAGATTTTCACGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTGAC
R724_reverse_index_primer	2 nd	CAAGCAGAAGACGGCATACGAGATGCTACCGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTGAC

Table S2. Genotypes of all individuals of family 1 (sexual).

Alleles are denoted by a combination of fragment length and a symbol indicating sequence identity.

	sex	TMS62	Ttab20	Ttab24	Ttab27	Ttab33	Ttab47	Ttab48	Ttab49
father	male	134a	66	244a	275	132	194	151	230
mother	female	126a/130a	66/74	247a/247a	261/275	124b/132	170a/170a	143/155	233/236
offspring 1	female	134a/126a	66/74	244a/247a	275/275	124b/132	170a/194	151/155	233/230
offspring 2	female	134a/126a	66/66	244a/247a	275/275	124b /132	170a/194	151/155	230/236
offspring 3	female	134a/130a	66/66	244a/247a	261/275	124b/132	194/170a	151/155	230/236
offspring 4	female	134a/130a	66/74	244a/247a	261/275	124b/132	170a/194	143/151	230/236
offspring 5	female	134a/130a	66/74	244a/247a	261/275	132/132	194/170a	151/155	233/230
offspring 6	female	134a/126a	66/74	244a/247a	275/275	124b/132	170a/194	151/155	233/230
offspring 7	female	134a/126a	66/74	244a/247a	275/275	124b/132	170a/194	151/155	230/236
offspring 8	female	134a/130a	66/74	244a/247a	261/275	132/132	170a/194	151/155	230/236
offspring 9	female	134a/130a	66/74	244a/247a	261/275	124b/132	170a/194	143/151	233/230
offspring 10	female	134a/126a	66/66	244a/247a	275/275	124b/132	170a/194	151/155	233/230
offspring 11	female	134a/130a	66/74	244a/247a	261/275	124b/132	170a/194	143/151	233/230
offspring 12	female	134a/130a	66/66	244a/247a	261/275	132/132	170a/194	143/151	230/236
offspring 13	female	134a/126a	66/66	244a/247a	275/275	124b/132	170a/194	151/155	230/236

Table S3. Genotypes of all individuals of family 2 (sexual).

	sex	TMS62	Ttab20	Ttab24	Ttab27	Ttab33	Ttab47	Ttab48	Ttab49
father	male	too low	too low	too low	too low	too low	too low	too low	too low
mother	female	126a/126a	66/66	244a/253a	266/266	120a/124a	170a/192	151/151	224/236
offspring1	female	126a/134c	66/66	244a/244a	266/276	120a/124a	170a/170a	151/151	224/236
offspring2	female	126a/134c	66/66	244a/253a	266/276	120a/124a	170a/192	151/151	236/236

Table S4. Genotypes of all individuals of family 3 (sexual).

Ten females (*) did not have maternal alleles in Ttab47.

	sex	TMS62	Ttab20	Ttab24	Ttab27	Ttab33	Ttab47	Ttab48	Ttab49
father	male	130c	66	244a	263a	116a	192	151	230
mother	female	126a/126b	66/66	247a/253b	263a/266	120a/120a	183/183	153a/153b	224/236
offspring1	female	126b/130c	66/66	244a/247a	263a/263a	116a/120a	183/192	151/153b	224/230
offspring2	female	126a/130c	66/66	244a/247a	263a/266	116a/120a	192/192*	151/153a	230/236
offspring3	female	126b/130c	66/66	244a/253b	263a/263a	116a/120a	183/192	151/153b	230/236
offspring4	female	126a/130c	66/66	244a/253b	263a/266	116a/120a	183/192	151/153b	230/236
offspring5	female	126b/130c	66/66	244a/253b	263a/263a	116a/120a	192/192*	151/153a	230/236
offspring6	female	126a/130c	66/66	244a/247a	263a/266	116a/120a	192/192*	151/153a	230/236
offspring7	female	126b/130c	66/66	244a/253b	263a/263a	116a/120a	192/192*	151/153b	230/236
offspring8	female	126a/130c	66/66	244a/247a	263a/266	116a/120a	192/192*	151/153a	230/236
offspring9	female	126b/130c	66/66	244a/253b	263a/263a	116a/120a	192/192*	151/153a	224/230
offspring10	female	126a/130c	66/66	244a/253b	263a/266	116a/120a	192/192*	151/153b	230/236
offspring11	female	126b/130c	66/66	244a/247a	263a/263a	116a/120a	183/192	151/153a	230/236
offspring12	female	126a/130c	66/66	244a/253b	263a/266	116a/120a	192/192*	151/153b	230/236
offspring13	female	126a/130c	66/66	244a/247a	263a/266	116a/120a	183/192	151/153a	230/236
offspring14	female	126a/130c	66/66	244a/253b	263a/266	116a/120a	192/192*	151/153b	230/236
offspring15	female	126b/130c	66/66	244a/247a	263a/263a	116a/120a	192/192*	151/153a	224/230
offspring16	male	126a	66	247a	266	120a	183	153b	236
offspring17	male	126a	66	253b	266	120a	183	153b	236
offspring18	male	126b	66	247a	263a	120a	183	153a	236

Table S5. Genotypes of all individuals of family 4 (sexual).

Four males (*) had two alleles in Ttab48.

	sex	TMS62	Ttab20	Ttab24	Ttab27	Ttab33	Ttab47	Ttab48	Ttab49
father	male	134a	74a	244a	263a	120a	170a	151	230
mother	female	126a/126a	54/82	244a/244a	287/287	115/116b	170a/196	143/151	230/236
offspring1	female	126a/134a	74a/82	244a/244a	263a/287	116b/120a	170a/196	151/151	230/236
offspring2	female	126a/134a	74a/82	244a/244a	263a/287	115/120a	170a/196	151/151	230/230
offspring3	female	126a/134a	54/74a	244a/244a	263a/287	116b/120a	170a/196	151/151	230/236
offspring4	female	126a/134a	54/74a	244a/244a	263a/287	116b/120a	170a/196	151/151	230/230
offspring5	female	126a/134a	54/74a	244a/244a	263a/287	116b/120a	170a/170a	151/151	230/230
offspring6	female	126a/134a	74a/82	244a/244a	263a/287	116b/120a	170a/196	151/151	230/236
offspring7	female	126a/134a	74a/82	244a/244a	263a/287	116b/120a	170a/196	151/151	230/236
offspring8	female	126a/134a	74a/82	244a/244a	263a/287	116b/120a	170a/196	151/151	230/230
offspring9	female	126a/134a	54/74a	244a/244a	263a/287	116b/120a	170a/170a	143/151	230/230
offspring10	female	126a/134a	54/74a	244a/244a	263a/287	115/120a	170a/170a	151/151	230/230
offspring11	female	126a/134a	54/74a	244a/244a	263a/287	116b/120a	170a/170a	151/151	230/236
offspring12	male	126a	54	244a	287	115	170a	143/151*	230
offspring13	male	126a	54	244a	287	116b	170a	143	230
offspring14	male	126a	54	244a	287	116b	196	151	236
offspring15	male	126a	54	244a	287	115	170a	143/151*	230
offspring16	male	126a	54	244a	287	115	170a	143/151*	230
offspring17	male	126a	54	244a	287	115	196	151	230
offspring18	male	126a	54	244a	287	116b	170a	143	236
offspring19	male	126a	82	244a	287	115	196	143/151*	236
offspring20	male	126a	82	244a	287	116b	170a	143	230

Table S6. Genotypes of all individuals of family 5 (sexual).

	sex	TMS62	Ttab20	Ttab24	Ttab27	Ttab33	Ttab47	Ttab48	Ttab49
father	male	130c	66	253a	263a	120a	170a	151	230
mother	female	130c/130c	66/74a	244a/244a	261/261	96/113a	170a/192	147/149b	230/243
offspring1	female	130c/130c	66/66	244a/253a	261/263a	96/120a	170a/192	149b/151	230/243
offspring2	female	130c/130c	66/66	244a/253a	261/263a	113a/120a	170a/192	147/151	230/243
offspring3	female	130c/130c	66/74a	244a/253a	261/263a	113a/120a	170a/192	147/151	230/243
offspring4	female	130c/130c	66/66	244a/253a	261/263a	113a/120a	170a/170a	149b/151	230/230
offspring5	female	130c/130c	66/74a	244a/253a	261/263a	96/120a	170a/170a	147/151	230/243
offspring6	female	130c/130c	66/74a	244a/253a	261/263a	113a/120a	170a/192	149b/151	230/243
offspring7	female	130c/130c	66/66	244a/253a	261/263a	96/120a	170a/170a	147/151	230/243
offspring8	female	130c/130c	66/66	244a/253a	261/263a	96/120a	170a/192	147/151	230/230
offspring9	female	130c/130c	66/66	244a/253a	261/263a	113a/120a	170a/192	147/151	230/243
offspring10	female	130c/130c	66/66	244a/253a	261/263a	113a/120a	170a/192	147/151	230/230
offspring11	female	130c/130c	66/66	244a/253a	261/263a	113a/120a	170a/170a	149b/151	230/243
offspring12	male	130c	74a	244a	261	113a	170a	149b	230
offspring13	male	130c	66	244a	261	113a	192	149b	243
offspring14	male	130c	66	244a	261	113a	192	149b	230
offspring15	male	130c	66	244a	261	113a	192	149b	243
offspring16	male	130c	66	244a	261	96	170a	149b	230
offspring17	male	130c	74a	244a	261	96	192	149b	230
offspring18	male	130c	74a	244a	261	96	170a	149b	243
offspring19	male	130c	66	244a	261	113a	170a	147	243
offspring20	male	130c	74a	244a	261	113a	192	147	243

Table S7. Genotypes of all individuals of family 6 (sexual).

One female (*) did not have maternal allele in TMS62.

	sex	TMS62	Ttab20	Ttab24	Ttab27	Ttab33	Ttab47	Ttab48	Ttab49
father	male	130a	66	244a	278	116a	196	147	230
mother	female	130c/130c	66/66	244a/253a	275/275	116a/116a	165b/192	143/157	230/233
offspring1	female	130a/130a*	66/66	244a/253a	275/278	116a/116a	192/196	147/157	230/233

Table S8. Genotypes of all individuals of family 7 (sexual).

	sex	TMS62	Ttab20	Ttab24	Ttab27	Ttab33	Ttab47	Ttab48	Ttab49
father	male	184	66	244a	269	116a	192b	151	230
mother	female	134a130a	66/74a	244a/253b	266/275	116a/128	165b/173	143/143	230/233
offspring1	male	130a	66	253b	275	116a	173	143	233
offspring2	male	134a	74a	253b	266	116a	173	143	230
offspring3	male	130a	66	244a	275	116a	173	143	230
offspring4	male	134a	66	244a	266	128	173	143	233
offspring5	male	130a	74a	244a	275	116a	165b	143	233
offspring6	male	134a	66	253b	266	116a	165b	143	230
offspring7	male	130a	74a	244a	275	116a	173	143	230
offspring8	male	134a	66	244a	266	128	173	143	233
offspring9	male	134a	66	253b	266	116a	173	143	230
offspring10	male	134a	66	253b	266	116a	165b	143	233
offspring11	male	134a	66	244a	266	128	173	143	233
offspring12	male	134a	74a	244a	266	116a	173	143	233

Table S9. Genotypes of all individuals of family 8 (sexual).

	sex	TMS62	Ttab20	Ttab24	Ttab27	Ttab33	Ttab47	Ttab48	Ttab49
father	male	126a	54	244a	287	113a	196	147	230
mother	female	130a/134a	66/74a	244a/244a	266/275	116a/128	165b/173	143/143	230/233
offspring1	female	126a/134a	54/66	244a/244a	266/287	113a/116a	165b/196	143/147	230/233
offspring2	female	126a/134a	54/66	244a/244a	266/287	113a/116a	173/196	143/147	230/233
offspring3	female	126a/134a	54/66	244a/244a	266/287	113a/128	165b/196	143/147	230/230
offspring4	female	126a/134a	54/74a	244a/244a	266/287	113a/116a	173/196	143/147	230/233
offspring5	female	126a/130a	54/66	244a/244a	275/287	113a/128	165b/196	143/147	230/233
offspring6	female	126a/134a	54/66	244a/244a	266/287	113a/116a	173/196	143/147	230/230
offspring7	female	126a/130a	54/66	244a/244a	275/287	113a/128	165b/196	143/147	230/233
offspring8	female	126a/134a	54/74a	244a/244a	266/287	113a/128	173/196	143/147	230/230
offspring9	female	126a/130a	54/66	244a/244a	275/287	113a/116a	165b/196	143/147	230/233
offspring10	female	126a/130a	54/66	244a/244a	266/287	113a/128	173/196	143/147	230/233
offspring11	female	126a/130a	54/66	244a/244a	275/287	113a/116a	165b/196	143/147	230/233
offspring12	female	126a/130a	54/66	244a/244a	275/287	113a/128	165b/196	143/147	230/233
offspring13	female	126a/130a	54/66	244a/244a	275/287	113a/128	165b/196	143/147	230/233
offspring14	female	126a/130a	54/74a	244a/244a	275/287	113a/116a	165b/196	143/147	230/230
offspring15	female	126a/130a	54/74a	244a/244a	275/287	113a/116a	165b/196	143/147	230/230
offspring16	male	130a	66	244a	275	128	173	143	233
offspring17	male	130a	66	244a	275	128	165b	143	233
offspring18	male	134a	74a	244a	275	128	165b	143	233
offspring19	male	130a	66	244a	266	128	165b	143	230
offspring20	male	130a	74a	244a	275	128	173	143	230
offspring21	male	130a	66	244a	266	116a	165b	143	233
offspring22	male	130a	74a	244a	275	116a	173	143	230
offspring23	male	134a	74a	244a	266	128	173	143	230
offspring24	male	130a	66	244a	275	116a	165b	143	233

Table S10. Genotypes of all individuals of family 9 (thelytokous).

	sex	TMS62	Ttab20	Ttab24	Ttab27	Ttab33	Ttab47	Ttab48	Ttab49
mother	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring1	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring2	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring3	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring4	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring5	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring6	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring7	female	too low	too low	too low	too low	too low	too low	too low	too low
offspring8	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring9	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring10	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring11	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring12	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235

Table S11. Genotypes of all individuals of family 10 (thelytokous).

	sex	TMS62	Ttab20	Ttab24	Ttab27	Ttab33	Ttab47	Ttab48	Ttab49
mother	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring1	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring2	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring3	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring4	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring5	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235
offspring6	female	130b/134b	70/74b	253c/256a	263b/282	120b/164	203/205	149a/149a	229/235

Table S12. Genotypes of all individuals of family 11 (thelytokous).

	sex	TMS62	Ttab20	Ttab24	Ttab27	Ttab33	Ttab47	Ttab48	Ttab49
mother	female	too low	too low	too low	too low	too low	too low	too low	too low
offspring1	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring2	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring3	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring4	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252

Table S13. Genotypes of all individuals of family 12 (thelytokous).

One female (*) have two alleles in Ttab48.

	sex	TMS62	Ttab20	Ttab24	Ttab27	Ttab33	Ttab47	Ttab48	Ttab49
mother	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring1	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring2	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/157*	224/230/252
offspring3	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring4	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring5	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring6	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring7	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring8	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring9	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring10	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring11	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring12	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252

Table S14. Genotypes of all individuals of family 13 (thelytokous).

	sex	TMS62	Ttab20	Ttab24	Ttab27	Ttab33	Ttab47	Ttab48	Ttab49
mother	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring1	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring2	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring3	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring4	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring5	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring6	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring7	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring8	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring9	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring10	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring11	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252
offspring12	female	130b/156/188	66/70/74b	244b/247b/256b	263b/263c/279	113b/118/122	165a/170b/179	141/151/157	224/230/252