

Table S1 Molecular markers designed for foreground selection of three targeted loci

Character	Primer	Marker type	Sequences (5'—3')
Multilocular*	Teo-1	SSR	^f ACACGAGATAGATGTCCGCG
			^r GCCAATGCCAATGTTCATGC
	Teo-2	SSR	^f TCATCTGCCAAATCAATCACCA
			^r GCCAATGCCAATGTTCATGC
	sau_um190	Based on PCR	^f CTTCTCGAAGTCGTCTCCCTTA
			^r GCTGATACCGGAGATCAGAATG
	cnu_246a	Based on PCR	^f AAAGCCATCCATCCATCAAGC
			^r GATGCAACATTTGACTGTGTTAGAGC
self-compatibility	SCF-1	SSR	^f CACCGTTTAAGTCTTGCCCA
			^r TGTGCCGATTCTTCAGTTGC
	SCF-2	SSR	^f TTGTAACGAGGATGGCGGAT
			^r TGGCGAATGGAAATACAGCA
	SCF-3	SSR	^f TCGCTGGCTAGAAATATCCGT
			^r CTGGCGTTCTCAATCCCTTG
	SCF-4	SSR	^f TTCCCAATTTGTTCCAGGCG
			^r TGAGCCAGGACCAAGACTAC
	SCF-5	SSR	^f CCTGTGATCCCCAGACTTGT
			^r AGCAAACGTCATCTCGGA
	SCF-6	SSR	^f TGCTGTTGAATTAGAGGAGCC
			^r TTTGCTTGCTGTAGGGTGAG
	SCF-7	SSR	^f AGCATATGATCTCTGCTCTGC
			^r TGAAGCACCCGTTTGTGTGTT
	SC-8	SSR	^f ACCACCCAGCTGCTAAGAAT
			^r GGCCCAGATGCAGGAATAGT
	SC-9	SSR	^f GTCTAAACAGCACACACCG
			^r CGCGGTAAATGCATAACAAGC
	SC-10	SSR	^f CTGAATGGAAGAGCTCGCAG
			^r ACATTGTCCACTGTGCCAAC
	SC-11	SSR	^f AGTTTCCAGAATCATTACGCGA
			^r TCGTCTAATTGGGCAATGCG
	SC-12	SSR	^f TGGAGAGGAAAGATGTTGAAGAC
			^r TTGAAGGAAAGAGGAAGCGC

	PK1	Based on PCR	^f CTGCTGATCATGTTCTGCCTCTGG
	PK4	Based on PCR	^f CAATCCCCAAAATCCGAGATCT
	Sal-SLGI	Based on PCR	^f ACTTCGTGATGCGAGACTCC
			^r CCGCGTCTTCCTCATAACACC
<i>CRb</i> **	cnu_ssr413	SSR	^f ATTGTAAGTCGGAATTAAA
			^r GATGATTAGTTTTGGTGTCTTTG
	TCR37	InDel	^f GGAATTTGAGGAGGGACTC
			^r CAAAGAAAGAGCTCCAATCACA
	TCR74	SSR	^f ATGGATGATGGATGGATAGAGTG
			^r TTGAACCATAGGAGGGATAGTTG
	TCR79	SSR	^f TGACGTTCAATCAAAGCCTGA
			^r TTTAGCAATCAAATGCAAATTCAA
	TCR01	SSR	^f GGCACGTGAGAAAAACGTAT
			^r GAGACGAGTTGACGAAGTAA

*markers linked for multilocular were designed by Yadava et al. [4]

** markers linked for *CRb* gene were reported by Zhang et al. [44]

^fforword marker sequence

^rReverse marker sequence