

Table S3 DNA markers used in this study

Primer name	Primer sequence (5'–3')	Annealing temperature	SNP or indel position in reference sequence of Zunla	Mutation	Product size
KASPar assay					
Chr07_8122498 STA	AGCATCAACCTGTAATCATG		Chr07: 8122498	PG1-1: C	63 bp
Chr07_8122498 C1	AAITCTGAGGATATCATCAAAATAT			SCM334: T	63 bp
Chr07_8122498 A1	GAAGGTGACCAAGTTTCATGCTATGAATGTAGGAGTAAAAAGTGT				
Chr07_8122498 A2	GAAGGTCGGAGTCAACGGATTGAATGTAGGAGTAAAAAGTGC				
Chr07_9240780 STA	TTGAGAGTTCGATAAAATAAGATAGT		Chr07: 9240780	PG1-1: A	67 bp
Chr07_9240780 C1	GAAAAACGATTAAATTTGATTTG			SCM334: T	67 bp
Chr07_9240780 A1	GAAGGTGACCAAGTTTCATGCTATGAGTAACAACATGCAGAGT				
Chr07_9240780 A2	GAAGGTCGGAGTCAACGGATTATGAGTAACAACATGCAGAGA				
SNP HRM analysis					
HRM 8128285 F	TTAGGCATAATGGTTCAGAGA	55.6	Chr07: 8128285	PG1-1: G	140 bp
HRM 8128285 R	CACCTCAGGAAGAAAAACACC			SCM334: T	140 bp
HRM 8160357 F	AGAAAGTTTTCTCCGTCCAC	55.6	Chr07: 8160357	PG1-1: A	142 bp
HRM 8160357 R	GTTTACACACCCCTCGGATA			SCM334: C	142 bp
HRM 8282230 F	GAGAAACACAGCGAGCAA	55.6	Chr07: 8282230	PG1-1: A	140 bp
HRM 8282230 R	CTTCCATTCTGTCTGTCAG			SCM334: G	140 bp
HRM 8395520 F	CTGAGTCATTTCTTCAACTCTTC	56	Chr07: 8395520	PG1-1: T	114 bp
HRM 8395520 R	AGATGAGGTTCAATTGAGAGG			SCM334: C	114 bp
HRM 8805214 F	TTGCACTGTAACGAGTTTCTC	55.6	Chr07: 8805214	PG1-1: G	104 bp
HRM 8805214 R	CCATCCTGTTCTCAAGTGAC			SCM334: A	104 bp
HRM 8810113 F	TTTCATCCCGCTTTTACAGT	55.6	Chr07: 8810113	PG1-1: G	107 bp
HRM 8810113 R	GCCGAAGACACAAGTACCTA			SCM334: C	107 bp
HRM 8844414 F	CCTGAACACCCATAGTTTAAG	55.6	Chr07: 8844414	PG1-1: C	142 bp
HRM 8844414 R	TCCTTAAGTGACACATTTTGA			SCM334: T	142 bp
HRM 8910283 F	TCAGGAGGCTTATCGAAAT	55.6	Chr07: 8910283	PG1-1: A	159 bp
HRM 8910283 R	CCACATTCCACTCATACTACG			SCM334: G	159 bp
HRM 9039615 F	TTTCAAAGAAAATTACAAGAAAG	55.6	Chr07: 9039615	PG1-1: A	134 bp
HRM 9039615 R	CTTACCTCTTCTTTGTTCAGG			SCM334: T	134 bp
HRM 9119140 F	GTCTGGACAAGTAACCTCA	55.6	Chr07: 9119140	PG1-1: G	141 bp
HRM 9119140 R	AGGACAGTTATGGTCGTTTATC			SCM334: A	141 bp
HRM 9239631 F	CATGTTAGAAGTTCTCTCCAC	55.6	Chr07: 9239631	PG1-1: G	155 bp
HRM 9239631 R	ACATACATTGTTCGAGAAGGAG			SCM334: A	155 bp
Indel analysis					
CaRDR Indel 2F	CACCACTGTAGAAATKAATGGAMA	60	Chr07: 8395953	PG1-1: AAATACGAGGTGTGGCTCAACAGTTCC	117 bp
CaRDR Indel R	CGAACTTATGTTCTCACAAATC			27 bp deletion	144 bp

K = G or T; M = A or C