

**Table S5 Single nucleotide polymorphisms used for genetic mapping**

SNP name	location on chromosome	sequence in J6;5-4 and nbs1-2;5-3	sequence in 172 and nbs1-2 (172)
SNP .065M	65309	AGG-----TCG	AGGC <b>C</b> GAATCG
SNP .1M	99606	CC <b>G</b> CCTTCG	CC---TTCG
SNP .3M	299500	GTCCAGC	GTCAAGC
SNP .5M	553545	GAAATTCTGGAGTC	GAAATT-CTGGAGTC
SNP .8M	798676	CATCGTT-----TCATTAC	CATCATT <b>CCCG</b> CTTCATTAC
SNP .153	153710	PCR fragment size 1000 bp	PCR fragment size 1300 bp
SNP .205	205249	GCCTGGGTTTATTTATGG <b>AC</b> GCTAACCG	GCATGGGTTTATTTATGC <b>AG</b> ACTAAACG
SNP 2.28	2280834	AGA--AC---GGA	AGAG <b>A</b> ACTTGGA