

Table S3: RFI SNPs included in the final forward selection model. BTA and position denote the chromosome and chromosomal position from the Btau4.0 assembly, respectively. Abs( $\alpha$ ) denotes the absolute value of the allele substitution effect.  $2pq\alpha^2$  describes the genetic variance for each locus where the allele frequencies are p and q=1-p.

Marker ID	BTA	Position (Mb)	Abs( $\alpha$ )	p	$2pq\alpha^2$
<i>ss64260054</i>	1	85.95453	0.0185	0.1683	0.0000959028
<i>ss86328736</i>	1	130.3111	0.046	0.2221	0.0007302880
<i>ss105301409</i>	1	133.5587	0.0261	0.1676	0.0001899456
<i>ss117966494</i>	2	31.05061	0.1186	0.3109	0.0060264845
<i>ss105254260</i>	2	31.07949	0.1426	0.6870	0.0087506812
<i>ss61484491</i>	2	45.422	0.068	0.8474	0.0011943462
<i>ss86293216</i>	2	76.35988	0.0433	0.6103	0.0008901653
<i>ss61489474</i>	3	7.649577	0.0084	0.2751	0.0000281403
<i>ss64836693</i>	3	70.03582	0.034	0.8847	0.0002361678
<i>ss86331253</i>	4	62.29809	0.0213	0.5595	0.0002242468
<i>ss64726870</i>	4	75.92411	0.0214	0.4312	0.0002245856
<i>ss86274086</i>	5	35.90014	0.0189	0.2113	0.0001188279
<i>ss61557043</i>	6	41.86704	0.0289	0.4341	0.0004112025
<i>ss86297489</i>	6	90.41552	0.0051	0.5215	0.0000127277
<i>ss86290408</i>	6	105.4025	0.0131	0.1812	0.0000507740
<i>ss86293830</i>	7	14.27555	0.0066	0.3080	0.0000187780
<i>ss86337575</i>	8	6.769905	0.0417	0.8009	0.0005549146
<i>ss86339705</i>	8	56.62185	0.0249	0.5014	0.0003088333
<i>rs29022959</i>	8	91.71922	0.0251	0.7213	0.0002524645
<i>ss86308369</i>	8	110.8797	0.0375	0.7385	0.0005416445
<i>ss64696603</i>	9	20.70463	0.0103	0.4405	0.0000527223
<i>ss86328884</i>	9	34.81401	0.0474	0.0645	0.0002705972
<i>ss61516025</i>	9	104.334	0.0171	0.2414	0.0001072975
<i>ss86327686</i>	10	70.40733	0.0269	0.6454	0.0003312026
<i>ss61491345</i>	10	80.49974	0.0022	0.6354	0.0000022528
<i>ss117970126</i>	11	40.35811	0.0359	0.1218	0.0002758223
<i>ss86303685</i>	11	70.65666	0.042	0.6418	0.0008121868
<i>ss86336779</i>	11	105.8802	0.0274	0.3109	0.0003222445
<i>ss61516394</i>	12	48.75502	0.0084	0.3274	0.0000310742
<i>ss61529532</i>	12	53.97856	0.0215	0.1519	0.0001187438
<i>ss86341687</i>	12	72.39544	0.0512	0.8023	0.0008314600
<i>ss117971065</i>	14	3.606692	0.0037	0.5745	0.0000065778
<i>ss86340984</i>	14	9.990357	0.0224	0.8188	0.0001490423
<i>ss86300474</i>	14	78.08375	0.03	0.4140	0.0004353324
<i>ss62125948</i>	15	42.20598	0.0147	0.7034	0.0000898396
<i>ss86295351</i>	15	61.34966	0.0096	0.5845	0.0000444837
<i>ss61565643</i>	16	14.41611	0.0071	0.8861	0.0000102154

<i>ss117972192</i>	17	4.094041	0.0347	0.6132	0.0005725143
<i>ss61538007</i>	17	29.24063	0.0263	0.7285	0.0002731933
<i>ss117972116</i>	17	29.40406	0.0123	0.5709	0.0000736419
<i>ss117965075</i>	18	52.35454	0.0371	0.0953	0.0002375236
<i>ss86311733</i>	19	29.25672	0.0466	0.8782	0.0004634874
<i>ss86329372</i>	19	35.72306	0.0081	0.4140	0.0000318354
<i>ss86328551</i>	19	36.05319	0.0233	0.1060	0.0001031374
<i>ss65376194</i>	20	6.746413	0.0168	0.3617	0.0001303928
<i>ss86314901</i>	20	37.78467	0.022	0.5287	0.0002415123
<i>ss61495644</i>	20	41.21733	0.0141	0.7622	0.0000725756
<i>ss61511525</i>	20	50.48725	0.0288	0.8510	0.0002098884
<i>ss86303118</i>	21	30.98376	0.0234	0.3231	0.0002394147
<i>ss86277953</i>	21	33.92316	0.0326	0.8875	0.0002119006
<i>ss61523365</i>	22	31.36968	0.0022	0.4599	0.0000024044
<i>ss86295370</i>	22	56.05081	0.0246	0.5509	0.0002997658
<i>rs29013532</i>	22	57.36246	0.0084	0.3181	0.0000308784
<i>ss86316255</i>	23	32.67781	0.0466	0.0910	0.0003597838
<i>ss61514878</i>	23	33.238	0.0091	0.4986	0.0000412229
<i>ss86330971</i>	25	14.73887	0.0294	0.2414	0.0003158454
<i>ss61486991</i>	25	23.12439	0.0172	0.6554	0.0001341521
<i>ss86274817</i>	27	40.08445	0.0039	0.5193	0.0000076717
<i>ss86321221</i>	28	14.30796	0.0569	0.1282	0.0007240181
<i>ss86289932</i>	28	34.60799	0.0468	0.8961	0.0004068625
<i>ss86294990</i>	29	19.5054	0.0291	0.7958	0.0002753421
<i>ss86328651</i>	29	21.49747	0.0278	0.6626	0.0003457990
<i>ss117965798</i>	29	38.62682	0.0296	0.2185	0.0002981939
<i>ss86319047</i>	Un		0.001	0.4076	0.0000005193
<i>ss65170459</i>	Un		0.0142	0.2149	0.0000679447
<i>ss86331954</i>	Un		0.0231	0.7342	0.0002089518

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