

Table 3 Minor QTLs detected in the four trials

Trait name	Chromosome	Position	Left marker	Left marker position (cM)	Right marker	Right marker position (cM)	LOD	PVE (%)	Additive effect
2010HN	6	62.0000	2_04766	61.5000	1_1007	62.0000	3.3314	6.0412	-0.2260
2010HN	7	36.0000	2_19232	35.5000	2_01500	36.5000	3.3997	6.3811	-0.2318
2009SX	8	7.0000	2_11331	6.5000	2_14284	9.5000	3.1615	10.2497	-0.2700
2010HN	8	40.0000	2_37708	39.5000	1_0410	41.5000	6.7548	13.0843	-0.3397
2010HN <sub>1</sub>	8	76.0000	2_01197	71.5000	2_24066	77.5000	5.4867	10.5084	0.2979
2010SX <sub>1</sub>	8	7.0000	2_11331	6.5000	2_14284	8.5000	3.1270	7.6109	-0.3515
2010SX	8	39.0000	2_00497	38.5000	2_11307	39.5000	3.9839	10.0048	-0.4116
2010SX <sub>2</sub>	8	76.0000	2_01197	71.5000	2_24066	77.5000	6.2317	16.3852	0.5158
2009SX	9	39.0000	2_19798	38.5000	2_52482	39.5000	3.0413	9.7949	-0.2674