

Table 3 QTL associated with agronomic and aerobic root traits in HKR47 x MAS26 F₂ population

Trait	QTL name	Chr. No.	Position (cM)	Flanking markers	Flanking markers position (cM)	LOD	Additive effect	R ² %	DPE ^a
Tiller number	qTN _{8,1}	8	36.0	RM8020	36.0	2.6	0.9928	16.14	H
Tiller number	qTN _{8,2}	8	55.2	RM25-RM544	52.2-57.0	3.2	1.0331	21.03	H
Tiller number	qTN _{8,3}	8	60.9	RM72	60.9	3.0	0.8223	17.28	H
1000 grain weight	qTGW _{8,1}	8	59.1	RM547-RM72	58.1-60.9	4.2	0.9232	27.37	H
Yield/plant	qYPP _{8,1}	8	60.1	RM547-RM72	58.1-60.9	5.1	1.2004	20.23	H
Root length	qRL _{8,1}	8	43.7	RM8243	43.7	2.6	3.9063	13.72	M

Note: ^aDPE is direction of phenotypic effect; H and M indicate HKR47 and MAS26 alleles, respectively; Chr. No. indicates chromosome number; LOD: log₁₀ of an odd ratio, Additive effect is the effect of substituting a MAS26 allele for an HKR47 allele; R²: Percent phenotypic variance