

Table 3 Additive QTLs for water-soluble saccharide contents of RILs

Traits	QTL	Marker interval	Site (cM)	LOD	Additive effect	Contributions (%)	Total contribution (%)
Sucrose content	<i>qSuc-1B-1</i>	<i>Xubc834b-Xubc880d</i>	2	4.32	-0.111	18.09	49.30
	<i>qSuc-2B-1</i>	<i>Xwmc154b-Xwmc154a</i>	1	2.92	0.092	12.43	
	<i>qSuc-3B-1</i>	<i>Xubc834a-Xwmc3a</i>	13	2.81	-0.082	9.82	
	<i>qSuc-4A-1</i>	<i>Xswes620-Xswes615</i>	0	3.30	0.078	8.96	
Maltose content	<i>qMac-1B-1</i>	<i>Xswes579-Xswes953</i>	3	4.61	-0.188	19.71	79.39
	<i>qMac-1D-1</i>	<i>Xwmc432a-Xwmc336c</i>	3	3.85	0.161	14.41	
	<i>qMac-2D-1</i>	<i>Xgwm261a-Xgwm296b</i>	4	4.32	-0.263	38.30	
	<i>qMac-5D-1</i>	<i>Xswes558a-Xswes555a</i>	2	2.56	0.112	6.98	
Raffinose content	<i>qRac-5A-1</i>	<i>Xgwm293-Xissr32a</i>	9	3.54	-0.188	14.32	25.65
	<i>qRac-6B-1</i>	<i>Xwmc487-Xwmc737</i>	26	2.70	0.161	11.33	

Note: "Marker interval" indicates the two markers either side of each QTL; "Site" is the distance of the LOD peak value for the QTL from the first marker in "marker interval"; "Additive effect": Negative values indicate that increasing effect was from Shannong 483, positive values indicate that increasing effect was from Chuan 35050