Table 4 Association (R2) of the SSR markers with the six agronomical traits

Trait	Marker	Map position (cM)	R2 (%)		
			HD	SY	FY
PH	wmc491	7.6	7.9	11.8	ns
SL	wmc446	9.1	4.85	_	ns
SL	wmc707	39.5	15.55	_	13.42
SL	wmc283	59.0	ns	_	9.27
SL	wmc262	60.9	15.28	_	12.92
SPS	wmc707	39.5	11.15	ns	ns
SD	wmc446	9.1	9.36	_	7.66
SD	wmc707	39.5	12.34	_	14.18
SD	wmc283	59.0	8.66	_	13.33
SD	wmc262	60.9	18.38	_	20.59
GPS	wmc491	7.6	14.68	13.17	ns
GPS	wmc48	7.8	9.97	ns	7.45
GPS	wmc757	10.3	ns	ns	10.56
GPS	wmc283	59.0	ns	8.17	ns
GPS	barc70	70.6	ns	ns	15.01
GPS	barc78	70.9	10.33	8.98	ns
TKW	gwm44	9.9	9.02	7.99	_
TKW	barc70	70.6	6.29	8.41	_

Note: Map position (cM) were based on the consensus map Ta-SSR-2004 (Somers et al. 2004); R2 indicates the percentage of the total variation explained at the loci significant at P < 0.01 level; ns indicates no significance at P < 0.01 level; "-"indicates that the data was missed; See the footnote of Table 2 for the full names of the traits and locations