

**Table S8 Results of the QTL detection in the dent design using the LDLA – 5 cM model.** For each detected QTL, we showed its genetic position on the dent consensus map, its confidence interval, its level of significance and the partial percentage of variance explained. We also showed the name of one of the markers located at the detected position and their range of physical position(s) on the B73 v2 genome (Gore et al. 2009).

Trait	Nb	Chr	Marker	Physical position (kb)	Genetic position (cM)	-log <sub>10</sub> (p)	R <sup>2</sup> (%)
DMC (%)	1	1	PZE_101028121	16789 - 17963	31.6	11	3.9
	2	1	PZE_101150204	193868 - 194764	92	4.9	2
	3	1	PZE_101202934	249700 - 251159	134.9	7.9	3.1
	4	2	PZE_102006385	3379	9.6	6.4	1.5
	5	2	PZE_102150016	196649	94	8.9	2.9
	6	3	PZE_103038564	33572 - 56014	46	17.6	6.4
	7	3	PZE_103151042	204999	105	5.4	2.3
	8	4	PZE_104081311	155805	59.6	10.2	4
	9	5	PZE_105047074	35783 - 36699	52.3	12.4	4.9
	10	6	PZE_106007445	18846 - 21466	9.9	11.7	4.3
	11	6	PZE_106096901	150891	71.7	12.7	4.6
	12	7	PZE_107040665	154074	66.8	3.6	1.7
	13	8	PZE_108057885	103311	50.4	19.1	6.1
	14	9	PZE_109089324	137410	68.6	9	3.5
	15	10	PZE_110012467	10879	31.8	7.7	2.2
DMY (dt.ha <sup>-1</sup> )	1	3	PZE_103116584	175989	78.9	8	3.9
	2	3	PZE_103162977	213416	117.8	7.8	4.3
	3	6	PZE_106038467	86549	16.8	13.8	8.1
	4	7	PZE_107066645	123598 - 126465	58.2	8.8	5.6
	5	8	PZE_108057442	102536 - 108663	52.9	10.3	5.8
DtSILK (d)	1	1	PZE_101033622	21685	38.5	22.6	7.2
	2	1	PZE_101205734	251079 - 254464	136.4	6.7	2.4
	3	2	PZE_102152020	198672	94.5	15	4.5
	4	3	PZE_103086165	142732 - 157202	61.7	10	3.6
	5	3	PZE_103122617	180515	78.6	16.3	4.7
	6	5	PZE_105049624	41635 - 58706	56.3	4.8	2.2
	7	6	PZE_106094705	149930	71	16.5	5.4
	8	7	PZE_107045046	25471 - 104886	43.9	7.4	3
	9	7	PZE_107107125	158951 - 158952	82.1	5.8	2
	10	8	PZE_108058411	104281 - 104625	53.7	27.7	8.9
	11	9	PZE_109098496	143352	77.3	5.5	2
	12	10	PZE_110057591	110540 - 120784	49.8	8	3.1
DtTAS(d)	1	1	PZE_101032015	19641 - 21075	35.7	13.2	4.8
	2	2	PZE_102159907	206081 - 207151	102.9	7.1	2.8
	3	3	PZE_103098157	158352	60.8	21	7.6

	4	3	PZE_103143600	199245 - 201331	102.2	8	3.1
	5	5	PZE_105143985	197957 - 200116	95.6	5.1	2
	6	6	PZE_106033981	79499 - 86347	16	6.1	2.7
	7	6	PZE_106092387	148530 - 150461	72	6	2.5
	8	7	PZE_107045046	25471 - 104886	43.9	7.6	3.4
	9	7	PZE_107099124	152685 - 155704	79.9	6.1	2.7
	10	8	PZE_108062375	111291	54.3	23.6	8.3
	11	9	PZE_109094832	141175	73.4	11.1	3.9
PH (cm)	1	1	PZE_101018868	10962	21.4	5.5	2.1
	2	1	PZE_101133356	172811	81.4	12.9	4.4
	3	1	PZE_101196829	245032 - 245219	131	17.9	6.1
	4	3	PZE_103111112	171438 - 175550	75.5	10.8	3.9
	5	4	PZE_104073340	138154 - 144727	55.2	4.9	2
	6	4	PZE_104136077	202589 - 227111	109.7	7.4	2.6
	7	5	PZE_105068432	70082 - 86033	60.4	6.1	2.7
	8	6	PZE_106040975	89403 - 89404	19.3	28.4	9.3
	9	7	PZE_107076796	132076	65.4	19	6.3
	10	8	PZE_108056028	100939 - 102711	49.7	25.7	8.2
	11	8	PZE_108079422	133563 - 138524	71.4	11.7	4.1
	12	9	PZE_109085253	133933	68.1	21.3	7.2
	13	10	PZE_110014332	11179 - 13553	33.8	11	3.3