Table S9 Results of the QTL detection in the dent design using the LDLA – 2 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)	-log10(p)	R^2 (%)
DMC (%)	1	1	PZE_101036345	23712	38	12.4	4
	2	1	PZE_101154088	194939 - 197272	93.9	6.2	2.3
	3	1	PZE_101203104	250888	131.9	7.1	2.8
	4	2	PZE_102002360	1724	4.7	8.5	2
	5	2	PZE_102017964	8279	23.4	7.7	2.2
	6	2	PZE_102152020	198672	94.5	8.5	3
	7	3	PZE_103093079	154090 - 160936	63.9	16.7	5.4
	8	3	PZE_103148259	202185	104.1	5.4	2
	9	4	PZE_104076988	151510 - 151684	56.9	10.3	3.5
	10	5	PZE_105047074	35783 - 36699	52.3	13.3	4.9
	11	6	PZE_106020123	14400 - 24611	10	14.3	4.4
	12	6	PZE_106097959	151785	73.1	14.1	4.3
	13	7	PZE_107045895	24563 - 103626	43.6	5.8	2.4
	14	8	PZE_108061901	110744 - 115294	57.2	19.7	6.4
	15	9	PZE_109091148	138616 - 138617	69.6	12.7	4.2
	16	10	PZE_110012769	11241	33	8.2	2.2
DMY ($dt.ha^{-1}$)	1	1	PZE_101183895	228556	119.6	4.8	2.3
	2	3	PZE_103113115	172857 - 178134	78.3	8.4	4
	3	3	PZE_103159262	210755 - 210760	114.6	7.8	3.7
	4	6	PZE_106032535	75517 - 86627	15.5	13.3	6.9
	5	7	PZE_107069530	126351	58.1	9.3	5
	6	8	PZE_108057745	103023 - 103457	53	10.5	5.8
DtSILK (d)	1	1	PZE_101035008	19696 - 22646	37.8	22	6.9
	2	1	PZE_101205734	251079 - 254464	136.4	7.4	2.2
	3	2	PZE_102151348	197954	94.7	12.9	4.1
	4	3	PZE_103086165	142732 - 157202	61.7	10.2	3.7
	5	3	PZE_103122617	180515	78.6	16.3	4.7
	6	5	PZE_105049624	41635 - 58706	56.3	4.9	2.3
	7	6	PZE_106095370	150525 - 150588	72.6	17.5	5.1
	8	7	PZE_107045046	25471 - 104886	43.9	8.7	3.3
	9	7	PZE_107106025	158126	81.1	6.1	2
	10	8	PZE_108062521	111781	54.6	28.2	8.9
	11	9	PZE_109098632	143808	78.5	6.1	2.1
	12	10	PZE_110057591	110540 - 120784	49.8	7.8	3
DtTAS(d)	1	1	PZE_101032015	19641 - 21075	35.7	12.9	5

	2	2	PZE_102161022	207043	102.3	6.5	2.6
	3	3	PZE_103098157	158352	60.8	21.2	8.3
	4	3	PZE_103143600	199245 - 201331	102.2	7.8	3.2
	5	5	PZE_105143697	197846 - 200369	95.5	5	2.2
	6	7	PZE_107045046	25471 - 104886	43.9	6.1	2.9
	7	7	PZE_107099124	152685 - 155704	79.9	6	2.9
	8	8	PZE_108058411	104281 - 104625	53.7	20	7.6
	9	9	PZE_109090152	137787 - 138020	70.1	9.2	3.7
PH (cm)	1	1	PZE_101132703	171230 - 178401	82.3	10.6	4.1
	2	1	PZE_101196829	245032 - 245219	131	15.9	6
	3	3	PZE_103119393	178152 - 178564	79.1	8.9	2.8
	4	4	PZE_104073794	145614	55.7	6.4	2.5
	5	4	PZE_104138654	204861 - 226068	109.4	6.2	2.5
	6	5	PZE_105070660	74660 - 145496	61.9	5.2	2.5
	7	6	PZE_106044620	93734	20.4	20.4	6.4
	8	7	PZE_107077092	132190	66.5	19.9	6.5
	9	8	PZE_108038271	26346 - 65101	43.6	22.4	8.1
	10	8	PZE_108081297	133441 - 143002	71.9	8.6	3.3
	11	9	PZE_109085253	133933	68.1	14.6	5.4
	12	10	PZE_110013838	12922	35.9	10.4	4.2