

Table S7 Results of the QTL detection in the dent design using the connected 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)	Confidence interval	$-\log_{10}(p)$	R ² (%)
DMC (%)	1	1	PZE_101031077	19101	35.2	32-39	11.7	4.8
	2	2	PZE_102011868	5425	17.1	16-18	13.4	5.3
	3	2	PZE_102149235	195177 - 197936	94.4	88-100	5.4	2.6
	4	3	PZE_103091082	150173 - 165855	63.5	58-64	16.8	6.5
	5	4	PZE_104079076	153406	59	57-61	10	4.2
	6	5	PZE_105026024	13303 - 13313	42.8	42-45	10.6	4.4
	7	6	PZE_106002839	3588 - 3869	2.9	1-6	10.4	4.3
	8	6	PZE_106098045	151822	75.1	72-79	9.6	4.1
	9	8	PZE_108058161	103705 - 103897	51.3	51-58	18	6.9
	10	9	PZE_109009836	10943	29.3	27-30	6	2.8
	11	9	PZE_109096235	141951	74.4	70-76	6.8	3.1
	12	10	PZE_110048796	91481 - 107902	46.4	27-53	5.7	2.7
DMY (dt.ha-1)	1	1	PZE_101071870	54342	59.2	57-62	5.7	3.8
	2	1	PZE_101215677	266310 - 266369	144.6	123-160	5.5	3.7
	3	3	PZE_103108908	169730 - 172477	70.8	66-76	5.5	3.7
	4	3	PZE_103160673	211719 - 212707	116.2	115-129	6.2	4
	5	3	PZE_103185177	229665	147.3	146-148	6.3	4.1
	6	6	PZE_106038467	86549	16.8	9-20	14.9	8
	7	7	PZE_107066645	123598 - 126465	58.2	57-61	11.7	6.6
	8	8	PZE_108057442	102536 - 108663	52.9	52-53	14.2	7.7
DtSILK (d)	1	1	PZE_101033622	21685	38.5	32-39	11.6	4.7
	2	1	PZE_101081841	69289 - 70518	66.2	65-67	4.6	2.3
	3	1	PZE_101194503	241368 - 244469	129.1	128-133	6.6	3
	4	2	PZE_102148927	195747 - 196529	93.9	93-96	9.1	3.8
	5	3	PZE_103110415	170772 - 174828	72	65-72	15.9	6.1
	6	3	PZE_103147207	201536 - 202769	103.4	101-110	5.5	2.6
	7	6	PZE_106095147	150309	72.4	70-74	13	5.1
	8	7	PZE_107072681	129265	63.2	43-67	8.4	3.6
	9	8	PZE_108057885	103311	50.4	50-54	26.4	9.6
	10	9	PZE_109020361	18684 - 20598	42.9	38-45	5	2.5
	11	10	PZE_110057591	110540 - 120784	49.8	49-52	7.2	3.2
DtTAS (d)	1	1	PZE_101033622	21685	38.5	36-39	10.8	5.4
	2	2	PZE_102157405	204235	99.8	99-100	6	3.4

	3	3	PZE_103101981	162179 - 167076	63.7	61-65	23.2	10.4
	4	5	PZE_105144068	198031	91.6	91-96	7.3	3.9
	5	7	PZE_107076807	132075	67.1	48-68	13.7	6.5
	6	8	PZE_108058411	104281 - 104625	53.7	50-55	19.4	8.8
	7	9	PZE_109092637	139196 - 140154	71.3	56-74	7.1	3.9
PH (cm)	1	1	PZE_101018818	10905	23.7	21-24	7.5	3
	2	1	PZE_101133561	172881 - 172940	81.5	80-84	13.2	4.7
	3	1	PZE_101196829	245032 - 245219	131	127-133	17.9	6.1
	4	3	PZE_103110278	170548	71.8	69-73	8.1	3.2
	5	4	PZE_104073340	138154 - 144727	55.2	53-58	6.9	2.8
	6	5	PZE_105065019	66038 - 79496	59.4	58-60	7.1	2.9
	7	6	PZE_106040994	89408 - 91643	19.9	19-20	27.7	9.1
	8	7	PZE_107005418	3665 - 3667	12.3	2-16	5.1	2.2
	9	7	PZE_107080996	135892	71.4	71-72	17.6	6
	10	8	PZE_108056028	100939 - 102711	49.7	49-52	23.3	7.7
	11	8	PZE_108078317	130737 - 134065	68.8	68-69	14.9	5.2
	12	9	PZE_109025803	25986	49.1	48-50	4	1.9
	13	9	PZE_109086708	134570 - 135460	67.8	67-70	7.8	3.1
	14	10	PZE_110008028	6072	22.6	22-26	12.2	4.4