

Table S6 Results of the QTL detection in the flint design using the LDLA – 1-marker model. For each detected QTL, we showed its genetic position on the flint 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)	$-\log_{10}(p)$	R ² (%)
DMC (%)	1	2	PZE_102185353	229130	164.2	5.7	1.7
	2	4	PZE_104033064	40693	60	6.7	2.1
	3	5	PZE_105079359	90584	80.6	11.5	3.9
	4	5	PZE_105143697	197846	126.4	5.7	1.7
	5	8	PZE_108063319	113212	63.6	7.2	2.3
	6	10	PZE_110050010	94199	45.9	44.3	18.0
	7	10	PZE_110086343	137505	68.9	6.3	1.9
DMY (dt.ha ⁻¹)	1	1	PZE_101128881	164375	105.8	6.3	1.8
	2	1	PZE_101144216	187381	118.6	15.6	5.2
	3	3	PZE_103097999	157939	65.4	10.3	3.3
	4	4	PZE_104017088	17150	48.7	11.4	3.7
	5	4	PZE_104021665	23190	51.4	5.8	1.7
	6	4	PZE_104122007	198999	124	6.0	1.7
	7	5	PZE_105094114	137392	81.5	9.7	3.1
	8	6	PZE_106104239	155466	90.7	7.8	2.4
	9	7	PZE_107128846	170819	128.9	8.2	2.5
	10	8	PZE_108028156	29898	51.1	9.1	2.9
	11	10	PZE_110050010	94199	45.9	33.0	12.2
DtSILK (d)	1	1	PZE_101004387	3883	8.5	8.2	1.5
	2	1	PZE_101088198	79735	90.5	10.0	1.9
	3	1	PZE_101106156	109635	102.4	17.1	3.6
	4	1	PZE_101151084	194731	125.8	9.4	1.8
	5	1	PZE_101200614	249700	173.1	11.3	2.2
	6	3	PZE_103098779	158974	61.9	11.3	2.2
	7	4	PZE_104021514	23073	51	9.0	1.7
	8	4	PZE_104079162	153502	69	10.8	2.1
	9	4	PZE_104152590	237693	155.7	6.4	1.1
	10	5	PZE_105069912	74335	76.8	21.1	4.6
	11	5	PZE_105143119	197706	127.6	5.7	1.0
	12	7	PZE_107128331	170536	128.5	6.5	1.2
	13	8	PZE_108070056	122950	71	12.0	2.4
	14	9	PZE_109009591	10597	30.3	7.1	1.3
	15	10	PZE_110016138	16504	38.6	11.2	2.2
	16	10	PZE_110050010	94199	45.9	45.7	11.1
DtTAS(d)	1	1	PZE_101004387	3883	8.5	6.1	1.2

2	1	PZE_101115961	138907	103.5	14.5	3.3	
3	1	PZE_101144216	187381	118.6	23.2	5.6	
4	1	PZE_101160171	202307	128	6.7	1.3	
5	1	PZE_101200614	249700	173.1	8.5	1.8	
6	3	PZE_103007349	4064	11.7	8.6	1.8	
7	3	PZE_103098779	158974	61.9	14.0	3.2	
8	4	PZE_104021514	23073	51	9.7	2.1	
9	4	PZE_104079162	153502	69	10.0	2.1	
10	5	PZE_105069912	74335	76.8	24.7	6.0	
11	6	PZE_106066817	119166	57.4	5.5	1.0	
12	8	PZE_108067255	118970	68.8	5.8	1.1	
13	8	PZE_108074213	129415	75.5	10.3	2.2	
14	9	PZE_109111133	151251	109.1	6.5	1.3	
15	10	PZE_110018448	22128	38.9	8.9	1.9	
16	10	PZE_110050010	94199	45.9	57.5	16.1	
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PH (cm)	1	1	PZE_101145493	188172	115.6	8.3	2.4
	2	2	PZE_102074558	55249	79.5	9.8	3.0
	3	4	PZE_104042538	60023	63.1	11.6	3.6
	4	5	PZE_105091638	129996	83.4	7.8	2.3
	5	5	PZE_105134752	195420	117.6	9.9	3.0
	6	6	PZE_106097959	151785	84.1	6.1	1.7
	7	7	PZE_107127637	170111	126.3	7.4	2.1
	8	8	PZE_108105216	159953	94.1	16.6	5.3
	9	10	PZE_110050010	94199	45.9	53.9	20.6
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