





A02\_5(c2)

213.5 mk1388\_A02  
 213.7 mk1271\_A02 mk1500\_A02  
 mk1502\_A02 mk1269\_A02  
 214.1 mk1501\_A02  
 214.5 mk1428\_A02  
 214.8 mk1477\_A02  
 214.9 mk1409\_A02  
 215.3 mk1478\_A02  
 215.6 mk1303\_A02  
 215.8 mk1371\_A02  
 216.0 mk1321\_A02 mk1322\_A02  
 216.3 mk5048  
 216.4 mk19702  
 216.6 mk19700  
 216.7 mk20283  
 216.9 mk1369\_A02  
 217.1 mk1349\_A02  
 217.3 mk1320\_A02  
 217.5 mk1497\_A02 mk1498\_A02  
 217.6 mk1499\_A02  
 217.8 mk20298  
 217.9 mk1458\_A02  
 218.1 mk1452\_A02 mk1453\_A02  
 218.2 mk1459\_A02  
 218.4 mk1482\_A02 mk1480\_A02  
 mk5050  
 218.5 mk1354\_A02 mk1345\_A02  
 218.6 mk1410\_A02  
 218.7 mk1448\_A02  
 219.0 mk1413\_A02  
 219.1 mk1472\_A02  
 219.5 mk1293\_A02  
 219.6 mk1294\_A02  
 219.8 mk1447\_A02  
 219.9 mk1493\_A02  
 220.0 mk20108 mk20270  
 mk20288 mk20255  
 220.2 mk20260 mk20316  
 mk20259  
 220.3 mk1468\_A02  
 223.4 mk1512\_A02  
 223.6 mk1510\_A02  
 223.7 mk1511\_A02  
 224.2 mk1517\_A02  
 224.7 mk1514\_A02  
 224.9 mk1513\_A02 mk1518\_A02  
 225.1 mk1516\_A02 mk1515\_A02  
 229.5 mk1190\_A02  
 230.4 mk1591\_A02 mk1592\_A02  
 232.0 mk1168\_A02  
 232.2 mk1166\_A02  
 232.3 mk1167\_A02  
 233.9 mk1147\_A02  
 234.0 mk1148\_A02  
 234.6 mk1149\_A02  
 235.4 mk1146\_A02  
 238.4 mk1144\_A02  
 239.7 mk2483  
 239.8 mk2484  
 240.2 mk1129\_A02  
 240.6 mk1137\_A02  
 240.9 mk1145\_A02  
 241.4 mk1139\_A02 mk1138\_A02  
 mk1142\_A02 mk1140\_A02  
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 242.8 mk1130\_A02 mk1133\_A02  
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 249.3 mk1120\_A02  
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 249.7 mk1116\_A02  
 249.8 mk1121\_A02  
 250.0 mk1117\_A02  
 253.5 mk1114\_A02  
 254.5 mk1113\_A02  
 255.2 mk1109\_A02 mk1110\_A02  
 256.0 mk1111\_A02  
 256.1 mk1112\_A02  
 258.0 mk1091\_A02 mk1092\_A02  
 mk1089\_A02 mk1090\_A02  
 258.3 mk1097\_A02  
 258.5 mk1096\_A02  
 258.8 mk1093\_A02 mk1095\_A02  
 258.9 mk1094\_A02  
 261.3 mk1108\_A02  
 271.1 mk1098\_A02 mk1105\_A02  
 271.6 mk1100\_A02 mk1102\_A02  
 mk1103\_A02 mk1101\_A02  
 271.7 mk1099\_A02  
 272.1 mk1107\_A02  
 272.3 mk1104\_A02  
 287.4 mk1046\_A02 mk1047\_A02  
 299.6 mk1031\_A02  
 305.6 mk1030\_A02 mk1029\_A02  
 313.8 mk1025\_A02  
 319.2 mk1024\_A02  
 331.0 mk1017\_A02  
 333.9 mk1021\_A02  
 334.3 mk1018\_A02  
 337.1 mk1019\_A02  
 337.3 mk1020\_A02  
 346.3 mk1022\_A02

A03\_1(c3)

0.0 mk2373\_A03  
 0.1 mk2376\_A03  
 1.4 mk2352\_A03  
 1.6 mk2353\_A03  
 2.5 mk2378\_A03 mk2377\_A03  
 3.2 mk2368\_A03 mk2369\_A03  
 3.8 mk2367\_A03  
 4.3 mk2360\_A03 mk2363\_A03  
 4.9 mk2357\_A03 mk2356\_A03  
 5.0 mk2372\_A03  
 20.8 mk2370\_A03 mk2371\_A03  
 20.3 mk2343\_A03  
 21.4 mk2344\_A03 mk2345\_A03  
 22.5 mk2346\_A03  
 22.8 mk2340\_A03  
 23.7 mk2339\_A03  
 24.7 mk2338\_A03  
 25.9 mk2341\_A03  
 26.7 mk2337\_A03  
 27.4 mk2335\_A03 mk2336\_A03  
 34.7 mk2334\_A03  
 41.8 mk2277\_A03  
 47.8 mk2269\_A03  
 48.6 mk2266\_A03  
 48.6 mk2265\_A03  
 48.8 mk2267\_A03  
 49.7 mk2258\_A03  
 50.2 mk2167\_A03  
 50.6 mk1994\_A03  
 50.9 mk2193\_A03 mk12268  
 51.1 mk19224  
 51.6 mk1199\_A03  
 51.9 mk2197\_A03  
 52.1 mk2196\_A03  
 52.2 mk2269\_A03  
 53.0 mk2246\_A03  
 53.3 mk2245\_A03  
 53.4 mk2244\_A03  
 53.8 mk2251\_A03 mk2252\_A03  
 54.2 mk2261\_A03  
 54.5 mk2260\_A03  
 54.8 mk2263\_A03 mk2262\_A03  
 55.6 mk2253\_A03 mk2257\_A03  
 55.9 mk2248\_A03  
 56.0 mk2267\_A03  
 56.3 mk10472  
 56.4 mk10471  
 56.5 mk2254\_A03  
 57.1 mk2256\_A03 mk2255\_A03  
 57.9 mk2259\_A03  
 58.5 mk2175\_A03  
 59.2 mk2164\_A03  
 60.2 mk2126\_A03  
 60.3 mk2174\_A03  
 66.3 mk2225\_A03  
 66.6 mk2417  
 67.0 mk237\_A03 mk19294  
 67.0 mk19293 mk19292  
 67.2 mk2234\_A03  
 67.5 mk2128\_A03 mk2219\_A03  
 67.9 mk2228\_A03  
 68.0 mk2224\_A03  
 68.3 mk1863\_A03  
 68.9 mk2181\_A03  
 69.1 mk16518  
 69.2 mk2733  
 69.2 mk2185\_A03 mk2186\_A03  
 69.2 mk2187\_A03 mk6919  
 70.0 mk2227\_A03 mk2226\_A03  
 70.3 mk2215\_A03 mk2216\_A03  
 70.4 mk2214\_A03 mk2217\_A03  
 71.1 mk2230\_A03 mk2231\_A03  
 71.5 mk2236\_A03 mk2235\_A03  
 72.0 mk2211\_A03 mk2210\_A03  
 72.5 mk2241\_A03 mk2221\_A03  
 72.8 mk2220\_A03  
 73.5 mk2222\_A03  
 73.7 mk19857  
 74.4 mk2190\_A03  
 75.1 mk2209\_A03  
 75.1 mk2242\_A03 mk2243\_A03  
 75.7 mk2212\_A03 mk2213\_A03  
 76.0 mk2223\_A03  
 76.1 mk2418  
 76.2 mk2233\_A03  
 77.0 mk2238\_A03 mk2239\_A03  
 77.0 mk2182\_A03  
 77.2 mk7  
 77.9 mk2419  
 78.5 mk2340\_A03  
 78.6 mk2420  
 79.0 mk8  
 79.2 mk2421  
 82.8 mk2121\_A03 mk2120\_A03  
 88.9 mk2119\_A03  
 89.0 mk2092\_A03  
 89.0 mk2094\_A03  
 93.4 mk2089\_A03 mk2091\_A03  
 93.6 mk2090\_A03  
 94.0 mk2088\_A03  
 94.0 mk2086\_A03  
 94.2 mk2084\_A03  
 102.5 mk1109  
 102.8 mk11098  
 118.0 mk2072\_A03  
 121.2 mk11960  
 128.6 mk2107\_A03  
 130.4 mk2087\_A03  
 130.8 mk2085\_A03  
 139.6 mk2075\_A03 mk2073\_A03  
 139.7 mk2076\_A03  
 140.3 mk2079\_A03 mk2080\_A03  
 157.4 mk2052\_A03  
 157.4 mk2045\_A03 mk2044\_A03  
 mk2041\_A03 mk2043\_A03  
 157.7 mk2042\_A03

qSTL\_A02\_110.1  
 qSTL\_A02\_110.2  
 qEC\_A02\_110.3\*\*\*

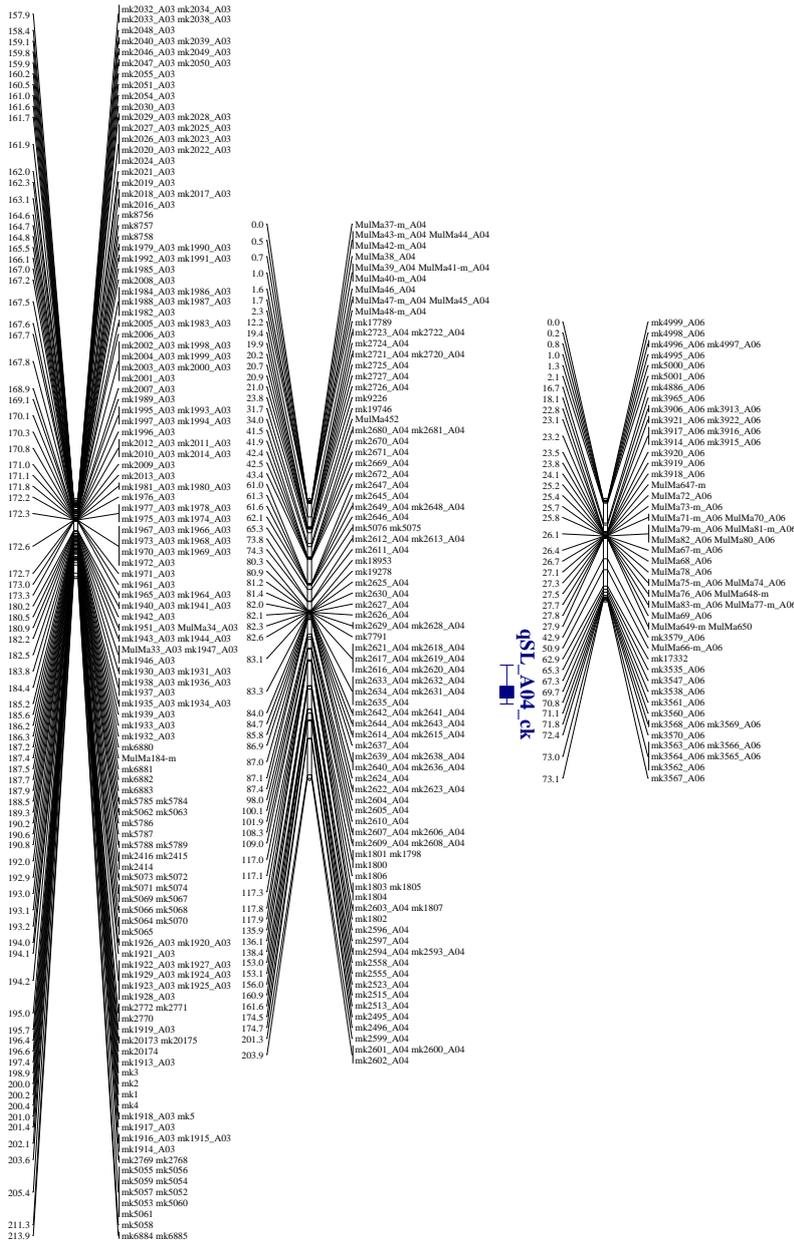
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 qCHL\_A02\_ck.2  
 qEC\_A02\_ck\*\*\*

qGR\_A03\_110  
 qEC\_A03\_150.1  
 qEC\_A03\_150.2  
 qFW\_A03\_ck.1  
 qFW\_A03\_ck.2

A03\_2(c3)

A04(c4)

A06(c6)



qSL\_A06\_110  
 qSLW\_A06\_150\*\*\*  
 qFW\_A06\_150,2\*\*\*  
 qFW\_A06\_150,1\*\*\*  
 qSLW\_A06\_110\*\*\*  
 qFW\_A06\_110,2\*\*\*  
 qFW\_A06\_110,1\*\*\*

qSL\_A04\_ck

A07\_1(c7)

A07\_2(c7)

A08(c8)

0.01	mk5734_A07	102.0
2.1	mk5733_A07	102.3
3.4	mk5732_A07	102.5
6.4	MulMa154_A07	102.7
12.3	mk5722_A07	102.8
16.5	mk5723_A07	102.8
12.8	mk5718_A07	102.2
16.5	mk5721_A07 mk5719_A07	103.9
18.9	mk5717_A07 mk5716_A07	105.2
23.8	mk5715_A07	108.4
26.3	mk5714_A07	108.9
28.0	mk5712_A07	109.0
28.1	mk5711_A07	109.5
28.4	mk5710_A07	109.7
29.6	mk5707_A07 mk5708_A07	110.6
30.6	mk5709_A07	110.8
31.0	mk5706_A07	111.1
31.9	mk5704_A07	111.2
32.5	mk5696_A07	111.8
32.7	mk5698_A07	113.3
33.5	mk5687_A07	114.2
33.6	mk5688_A07	115.1
34.0	mk5690_A07 mk5689_A07	115.4
34.4	mk5699_A07 mk5700_A07	116.7
34.6	mk5692_A07	117.3
34.7	mk5691_A07	117.5
34.9	mk5686_A07	117.9
35.2	mk5693_A07 mk5694_A07	119.9
35.3	mk5695_A07 mk5697_A07	120.9
35.9	mk5701_A07	120.9
36.6	mk5703_A07 mk5702_A07	121.4
42.7	mk5681_A07 mk5680_A07	121.5
42.8	mk5679_A07	125.5
44.1	MulMa150_A07	126.4
44.2	MulMa151_A07 MulMa153-m_A07	126.4
44.3	MulMa152-m_A07	126.5
45.1	MulMa146-m_A07	126.7
46.0	MulMa140_A07	127.0
46.3	MulMa144_A07 MulMa145_A07	127.4
47.1	MulMa139-m_A07	127.6
47.4	MulMa142-m_A07	127.7
48.1	MulMa143_A07	127.8
48.2	MulMa538	127.8
49.3	MulMa148-m_A07	127.8
49.4	MulMa149-m_A07	128.2
51.0	mk5684_A07 mk5685_A07	128.2
51.7	mk5683_A07 mk5682_A07	128.9
52.7	MulMa147_A07	129.5
56.2	mk5653_A07	130.2
59.1	mk5674_A07 mk5673_A07	130.5
59.6	mk5672_A07	131.0
59.7	mk5675_A07	131.5
59.9	mk5668_A07	132.5
61.0	mk5637_A07	133.1
61.4	mk5638_A07	133.2
62.6	mk5677_A07	133.4
62.9	mk5676_A07	137.6
63.1	mk5678_A07	138.1
66.4	MulMa141-m_A07	148.8
69.2	MulMa131_A07	154.9
69.4	MulMa133-m_A07	158.3
69.7	MulMa360-m	159.7
69.8	MulMa136_A07	171.3
69.9	MulMa138_A07	172.3
70.2	MulMa1-m	173.6
70.4	MulMa645-m	173.6
71.2	MulMa134_A07	173.6
71.5	MulMa135_A07	173.6
71.7	MulMa137-m_A07	173.6
71.8	MulMa539-m	173.6
72.0	MulMa32	174.0
72.2	MulMa132-m_A07	174.5
72.5	MulMa50-m MulMa55	174.9
72.6	MulMa129_A07	174.9
72.7	MulMa51	174.9
72.8	MulMa130_A07	175.2
74.9	mk13186	175.2
75.2	mk6338	175.7
75.8	mk5633_A07	175.7
75.9	mk5621_A07	175.7
77.4	mk18748	175.9
77.5	mk18749	181.2
77.6	mk19970 mk5620_A07	181.2
77.9	mk5619_A07	182.9
80.0	mk5547_A07	183.3
80.4	mk5550_A07	183.3
80.8	mk5551_A07 mk5548_A07	188.0
81.0	mk5545_A07	189.6
81.4	mk5543_A07	189.3
81.5	mk19827	190.4
83.4	mk5557_A07	190.4
85.1	mk5478_A07	192.6
85.3	mk5481_A07	195.4
93.8	mk5408_A07	195.8
93.8	mk5407_A07	196.1
93.9	mk5417_A07 mk5416_A07	196.5
94.5	mk5414_A07 mk5415_A07	196.6
94.5	mk5411_A07 mk5410_A07	200.6
95.7	mk5413_A07 mk5412_A07	201.6
96.9	mk5406_A07	201.9
98.1	mk5418_A07 mk5409_A07	202.5
98.1	mk5405_A07	205.9
99.1	mk5404_A07	205.9

qEC\_A07\_110

qGR\_A07\_110

102.0	MulMa121-m_A07	0.0
102.3	MulMa120-m_A07 MulMa119-m_A07	0.8
102.5	MulMa124-m_A07 MulMa123-m_A07	0.8
102.7	MulMa127_A07 MulMa122-m_A07	6.8
102.8	MulMa117-m_A07	6.9
102.8	MulMa118-m_A07	7.6
103.2	MulMa128-m_A07	8.3
103.9	MulMa126-m_A07 MulMa125-m_A07	8.9
105.2	MulMa155-m	22.1
108.2	MulMa115-m_A07	22.5
108.4	MulMa116_A07	23.2
108.9	MulMa107-m_A07	24.3
109.0	MulMa113_A07	24.6
109.5	MulMa106_A07 MulMa105-m_A07	30.1
109.7	MulMa103-m_A07 MulMa104_A07	31.0
110.6	MulMa111_A07 MulMa109-m_A07	31.1
110.8	MulMa108_A07 MulMa112_A07	31.5
111.1	MulMa110_A07	41.4
111.2	MulMa114_A07	41.7
111.8	MulMa105-m_A07	41.8
113.3	mk5398_A07	41.9
114.2	mk5396_A07 mk5397_A07	49.9
115.1	mk5395_A07	50.2
115.4	mk5374_A07	50.6
116.7	mk5369_A07	51.1
117.3	mk5387_A07 mk5386_A07	69.9
117.5	mk5385_A07 mk5384_A07	88.0
117.9	mk5383_A07 mk5388_A07	94.4
119.9	mk5382_A07	94.8
120.9	mk5393_A07 mk5394_A07	95.8
121.4	mk5392_A07	96.2
121.5	mk5391_A07	96.4
125.5	mk5390_A07	96.5
126.4	mk5372_A07 mk5373_A07	96.7
126.4	mk5330_A07 mk5329_A07	96.9
126.5	mk5332_A07	103.7
126.7	mk5341_A07 mk5342_A07	103.8
127.0	mk5362_A07 mk5360_A07	104.0
127.4	mk5359_A07 mk5348_A07	105.1
127.6	mk5340_A07	110.8
127.7	mk5355_A07	110.9
127.8	mk5354_A07	111.3
127.8	mk5357_A07 mk5356_A07	111.4
127.8	mk5353_A07	112.1
128.2	mk5352_A07	
128.9	mk5351_A07	
129.5	mk5349_A07 mk5347_A07	
130.2	mk5359_A07 mk5358_A07	
130.5	mk5346_A07 mk5345_A07	
131.0	mk5344_A07 mk5343_A07	
131.5	mk5351_A07 mk5350_A07	
132.5	mk5384_A07	
133.1	mk5365_A07 mk5363_A07	
133.2	mk5338_A07 mk5337_A07	
133.4	mk5352_A07	
137.6	mk5334_A07 mk5333_A07	
138.1	mk5327_A07 mk5328_A07	
148.8	MulMa101_A07 MulMa99_A07	
154.9	MulMa98_A07 MulMa100_A07	
158.3	mk8801	
159.7	mk5290_A07 mk5291_A07	
171.3	mk5283_A07	
172.3	MulMa97_A07 MulMa96_A07	
173.6	MulMa95_A07	
173.6	MulMa94_A07 MulMa93-m_A07	
173.6	MulMa92-m_A07	
173.6	MulMa91_A07	
174.0	MulMa89-m_A07	
174.5	MulMa86-m_A07 MulMa87-m_A07	
174.9	MulMa13 MulMa11	
174.9	MulMa10 MulMa12	
175.2	MulMa8-m MulMa9-m	
175.2	MulMa7-m	
175.7	MulMa3 MulMa5	
175.7	MulMa2 MulMa4	
175.9	MulMa91_A07	
175.9	MulMa90-m_A07	
181.2	mk5251_A07	
181.2	mk5248_A07 mk5247_A07	
182.9	MulMa85_A07	
183.3	mk5255_A07	
188.0	mk5258_A07	
189.6	mk5262_A07	
189.3	mk5266_A07 mk5257_A07	
190.4	mk5269_A07	
190.4	mk5271_A07 mk5272_A07	
192.6	mk5270_A07	
195.4	mk5299_A07	
195.8	mk5260_A07 mk5261_A07	
196.1	mk5258_A07	
196.5	mk5299_A07	
196.6	mk5264_A07	
200.6	mk5267_A07 mk5266_A07	
201.6	mk5263_A07 mk5265_A07	
201.9	mk5259_A07	
202.5	mk5241_A07	
205.9	mk5240_A07	
205.9	mk5238_A07	
205.9	mk5802	

qEC\_A08\_ck

qGR\_A08\_ck

qCH\_A08\_ck

0.0	MulMa156_A08	0.0
0.8	mk6187_A08 mk6186_A08	0.8
6.8	MulMa161_A08	6.8
6.9	MulMa160-m_A08 MulMa161_A08	6.9
7.6	MulMa162_A08	7.6
8.3	mk6204_A08	8.3
8.9	MulMa164_A08	8.9
22.1	MulMa165-m_A08 MulMa166_A08	22.1
22.5	MulMa168_A08	22.5
23.2	MulMa361	23.2
24.3	MulMa167_A08	24.3
24.6	MulMa170_A08	24.6
30.1	MulMa169-m_A08	30.1
31.0	mk6214_A08 mk6213_A08	31.0
31.1	mk6215_A08	31.1
31.5	mk6212_A08	31.5
41.4	mk6208_A08	41.4
41.7	MulMa177_A08 MulMa174_A08	41.7
41.8	MulMa175_A08	41.8
41.9	MulMa176_A08 MulMa173_A08	41.9
49.9	MulMa179-m_A08 MulMa171_A08	49.9
50.2	MulMa180-m_A08	50.2
50.6	MulMa661	50.6
51.1	MulMa181-m_A08 MulMa662	51.1
69.9	MulMa665 MulMa666-m	69.9
88.0	MulMa182_A08	88.0
94.4	MulMa663	94.4
94.8	MulMa159_A08	94.8
95.8	MulMa157_A08 MulMa158-m_A08	95.8
96.2	mk6167_A08	96.2
96.4	mk6168_A08	96.4
96.5	mk6175_A08	96.5
96.7	mk6171_A08 mk6172_A08	96.7
96.9	mk6169_A08	96.9
103.7	mk5975_A08	103.7
103.8	mk6033_A08 mk6022_A08	103.8
104.0	mk6024_A08	104.0
105.1	mk6009_A08	105.1
110.8	mk6048_A08	110.8
110.9	mk6116_A08	110.9
111.3	mk6115_A08	111.3
111.4	mk6118_A08 mk6119_A08	111.4
112.1	mk6117_A08	112.1
112.1	mk6120_A08	112.1
112.1	mk6121_A08 mk6122_A08	112.1

A09(c9)

A10\_1(c10)

A10\_2(c10)

0.0	
7.3	mk6776_A09
15.6	mk6775_A09
23.4	mk6774_A09
23.5	mk6769_A09
23.8	mk6768_A09
24.4	mk6773_A09
25.2	mk6763_A09 mk6764_A09
26.0	mk6772_A09
26.1	mk6771_A09
26.7	mk6769_A09 mk6770_A09
27.4	mk6765_A09
35.5	mk8762
44.2	mk6732_A09
44.4	mk6731_A09
44.5	mk6734_A09 mk6733_A09
59.3	mk6724_A09
60.6	mk6723_A09
61.9	mk6720_A09
65.9	mk6678_A09
66.3	mk6676_A09
67.1	mk17791
72.5	mk6622_A09
73.6	mk6491_A09 mk6493_A09
73.7	mk8248
74.0	mk11964
74.3	mk6524_A09
74.4	mk12622 mk6525_A09
74.8	mk6516_A09 mk6526_A09
75.1	mk19227
75.3	mk6499_A09
75.5	mk6494_A09
75.7	mk6502_A09
76.0	mk20065
76.1	mk20062 mk6508_A09
76.2	mk12438
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76.4	mk20194
76.5	mk12014
76.7	mk6505_A09
76.9	mk14981 mk6510_A09
77.2	mk6513_A09
77.4	mk6512_A09
77.5	mk14980
77.7	mk6529_A09
78.1	mk6527_A09
78.4	mk1899 mk31
78.5	mk2439
78.8	mk19748
78.9	mk1820 mk6514_A09
79.0	mk6498_A09 mk6497_A09
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79.7	mk6517_A09
79.9	mk18838
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80.2	mk6523_A09
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80.9	mk6533_A09
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81.3	mk6532_A09
81.6	mk6530_A09
82.4	mk6496_A09
83.1	mk6511_A09
84.0	mk6504_A09
85.0	mk6515_A09
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87.0	mk6509_A09
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93.1	mk6535_A09
93.3	mk6495_A09
109.8	mk6485_A09 mk6486_A09
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134.9	mk6488_A09 mk6487_A09
135.6	mk6459_A09
137.0	mk6412_A09 mk6411_A09
138.4	mk6406_A09

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20.5	mk7621_A10	100.7
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21.8	mk7629_A10	101.3
24.0	mk7634_A10 mk7633_A10	101.7
24.0	mk7631_A10	101.8
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26.4	mk7615_A10 mk7608_A10	102.3
26.5	mk7612_A10 mk7611_A10	102.5
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26.8	mk7628_A10 mk7607_A10	102.8
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27.1	mk7627_A10	104.5
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29.2	mk7581_A10 mk7578_A10	106.8
29.7	mk7595_A10 mk7594_A10	109.2
31.6	mk7606_A10	115.3
41.9	mk7543_A10	116.2
42.5	mk7535_A10 mk7536_A10	119.9
52.7	mk7537_A10 mk7534_A10	120.4
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52.8	mk7522_A10	123.2
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54.4	mk7516_A10	127.4
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56.7	mk7519_A10	129.1
57.6	mk7517_A10	129.2
58.7	mk7513_A10	129.6
58.7	mk7792 mk7793	129.8
58.7	mk7794	129.9
59.5	mk18875	130.2
59.5	mk18876	130.4
60.3	mk7511_A10	130.8
62.0	mk7512_A10	132.5
72.3	mk7485_A10	133.0
73.3	MulMa205-m_A10	130.9
78.0	MulMa193_A10	131.3
78.1	MulMa201-m_A10 MulMa541	131.5
78.1	MulMa198-m_A10 MulMa199-m_A10	131.5
78.1	MulMa543	131.7
78.7	MulMa191_A10	133.6
78.8	MulMa192_A10	133.8
79.7	MulMa641-m	134.0
80.2	MulMa197-m_A10	134.0
80.2	MulMa644 MulMa643-m	134.3
80.8	MulMa194-m_A10 MulMa195_A10	134.8
80.9	MulMa196_A10	135.6
81.0	MulMa632	135.9
81.1	MulMa200_A10	136.1
81.3	MulMa635-m	136.3
81.4	MulMa636-m	136.7
81.4	MulMa635	137.2
81.8	MulMa544	137.2
82.1	MulMa633-m MulMa634	138.0
82.2	MulMa638-m	138.0
82.5	MulMa204_A10	138.7
83.0	MulMa547-m	140.4
83.4	MulMa642-m	141.0
83.5	MulMa651-m	142.6
83.7	MulMa550-m	143.0
83.8	MulMa640-m	143.6
84.4	MulMa548-m MulMa549-m	144.2
84.9	MulMa202-m_A10	143.0
85.0	MulMa203-m_A10	143.0
85.2	MulMa639	143.6
85.3	MulMa546-m	144.4
85.4	MulMa545-m	144.5
85.8	MulMa629-m MulMa630	144.5
85.8	MulMa631-m	147.4
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89.0	mk19308 mk7454_A10	148.4
89.5	mk19470	154.1
89.8	mk19307	155.2
90.3	mk7461_A10	157.2
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90.6	mk7452_A10 mk7442_A10	165.2
90.9	mk7445_A10 mk7477_A10	165.4
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91.2	mk7469_A10	165.9
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91.8	mk7444_A10	166.2
92.4	mk7457_A10	166.5
92.8	mk19547	167.0
93.0	mk19102	167.4
93.4	mk7460_A10 mk7459_A10	167.5
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94.7	mk7473_A10 mk7472_A10	168.0
94.7	mk19549	168.2
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97.2	mk7471_A10	171.7
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97.7	mk7451_A10	177.1
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98.0	mk7453_A10 mk5099	185.7
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98.7	mk19364	193.3
98.9	mk7474_A10	193.5
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mk19548	102.5
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mk7437_A10	104.5
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MulMa189-m_A10	116.2
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mk7238_A10	147.4
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mk19385	148.4
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MulMa186-m_A10	157.2
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mk6995_A10	170.3
mk11114	170.9
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mk11967	171.3
mk11966 mk11965	171.7
mk6991_A10	174.6
mk8765 mk8764	177.1
mk8763	185.2
mk6986_A10	185.7
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mk6983_A10	193.3
mk6972_A10 mk6969_A10	193.5
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mk6961_A10	

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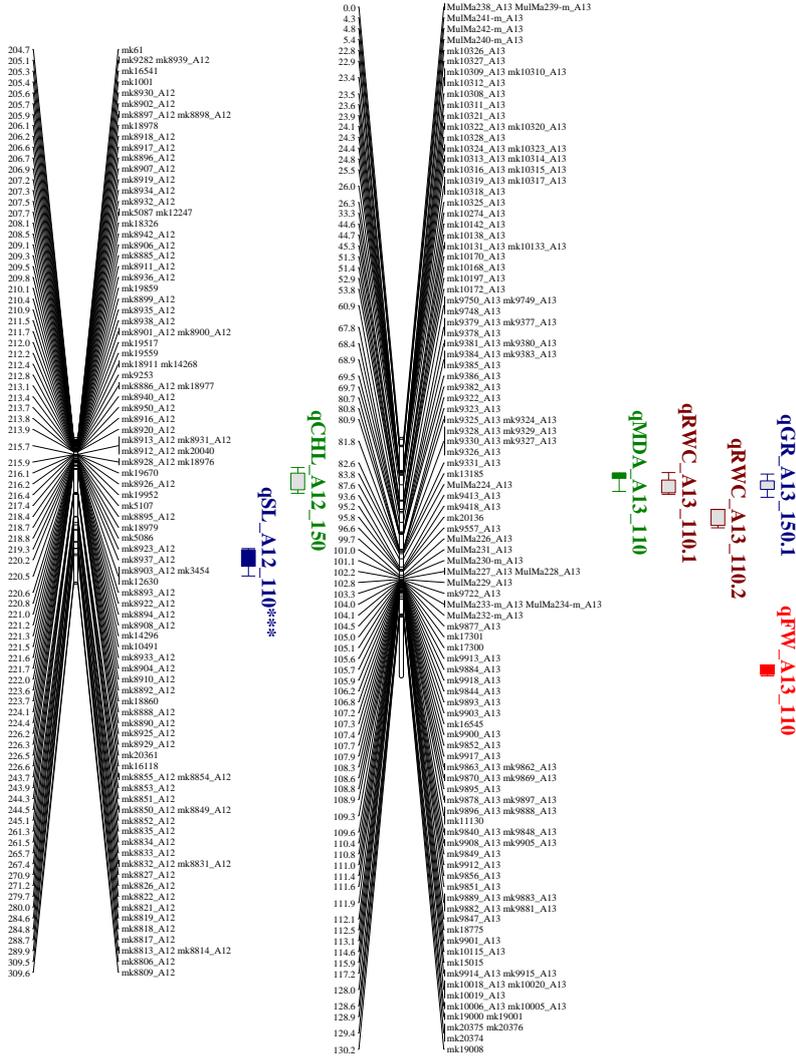
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qDLW\_A10\_150.2



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A13\_1(c13)



A13\_2(c13)

D01\_1(c15)

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 131.3 mk9996\_A13  
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 132.6 mk10049\_A13  
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 137.3 mk19007 mk10039\_A13  
 137.4 mk10007\_A13 mk10035\_A13  
 137.6 mk18994 mk18995  
 138.1 mk10021\_A13  
 138.2 mk10022\_A13  
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 142.3 mk10056\_A13  
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 202.9 mk9266  
 203.6 mk9267

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qRWC\_A13\_110.4

qRWC\_A13\_110.5

qGR\_A13\_150.2



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 4.7 MulMa272\_D01  
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 6.4 mk12276  
 7.1 mk10849\_D01  
 7.2 mk10850\_D01 mk10848\_D01  
 7.4 mk10851\_D01  
 8.4 MulMa273-m\_D01  
 9.4 mk10854\_D01  
 10.2 mk10852\_D01 mk10853\_D01  
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 73.7 MulMa276\_D01

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qDLW\_D01\_110

qFW\_D01\_110.3\*\*\*

qFW\_D01\_110.2\*\*\*

qFW\_D01\_110.1\*\*\*

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D02\_1(c14)

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 114.8 nk10815\_D01  
 114.9 nk10814\_D01  
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 117.0 nk10781\_D01  
 117.7 nk10799\_D01 nk10800\_D01  
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 119.0 nk10828\_D01  
 119.8 nk10771\_D01 nk10772\_D01  
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 122.7 nk10677\_D01  
 122.9 nk10682\_D01  
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 123.7 nk10660\_D01  
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 125.7 nk10696\_D01  
 125.8 nk10701\_D01  
 126.2 nk10700\_D01 nk10699\_D01  
 127.1 nk10686\_D01 nk10687\_D01  
 127.9 nk10665\_D01 nk10664\_D01  
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 128.7 nk10688\_D01  
 128.8 nk10684\_D01 nk10685\_D01  
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 128.9 nk10695\_D01  
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 129.5 nk10676\_D01  
 130.0 nk10679\_D01  
 131.5 nk1007  
 134.3 nk10656\_D01  
 134.5 nk10654\_D01 nk10655\_D01  
 136.0 nk10653\_D01  
 137.4 MulMa265-m\_D01  
 137.5 MulMa260\_D01 MulMa261-m\_D01  
 138.2 MulMa264\_D01  
 138.3 MulMa262\_D01  
 144.1 nk10652\_D01

0.0 MulMa355\_D02  
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 5.9 nk11800\_D02  
 5.9 nk11802\_D02  
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 19.5 MulMa345-m\_D02  
 19.9 MulMa342-m\_D02 MulMa341-m\_D02  
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 24.8 MulMa353-m\_D02 MulMa354\_D02  
 25.8 MulMa349\_D02  
 25.8 MulMa350-m\_D02 MulMa348-m\_D02  
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 39.1 nk11779\_D02  
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 42.1 nk11773\_D02 nk11771\_D02  
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 46.7 nk11731\_D02  
 46.7 nk11732\_D02  
 46.8 nk11733\_D02 nk11754\_D02  
 47.6 nk11744\_D02 nk11745\_D02  
 48.1 nk11728\_D02  
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 67.9 nk11710\_D02  
 72.2 nk11640\_D02 nk11643\_D02  
 72.3 nk11642\_D02 nk11641\_D02  
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 77.3 nk11531\_D02  
 77.6 nk11527\_D02  
 78.2 nk11528\_D02  
 78.2 nk11529\_D02  
 83.7 MulMa327\_D02  
 84.1 MulMa321-m\_D02 MulMa319\_D02  
 84.1 MulMa320\_D02  
 84.4 MulMa326-m\_D02  
 85.4 MulMa334-m\_D02  
 85.6 MulMa329-m\_D02 MulMa331\_D02  
 85.6 MulMa330-m\_D02 MulMa336-m\_D02  
 85.7 MulMa333-m\_D02  
 86.0 MulMa339\_D02 MulMa338-m\_D02  
 86.4 MulMa337-m\_D02  
 86.4 MulMa328-m\_D02  
 86.5 MulMa340-m\_D02  
 86.6 MulMa332\_D02 MulMa335\_D02  
 86.6 MulMa318\_D02 MulMa325\_D02  
 87.6 MulMa323-m\_D02 MulMa322\_D02  
 87.7 MulMa324\_D02  
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 94.8 nk11621\_D02 nk11620\_D02  
 94.9 nk11618\_D02  
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 99.3 nk11652\_D02 nk11651\_D02  
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 101.2 nk11653\_D02  
 101.3 nk11646\_D02  
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 104.3 nk11636\_D02  
 104.6 nk11634\_D02  
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 106.6 nk11638\_D02  
 110.2 nk11624\_D02  
 110.8 nk11617\_D02  
 110.8 nk11616\_D02  
 111.0 nk11615\_D02  
 111.4 nk11622\_D02  
 112.3 nk11614\_D02  
 115.6 nk11602\_D02  
 115.9 nk11603\_D02  
 116.8 nk11595\_D02  
 117.8 nk11606\_D02 nk11607\_D02  
 119.1 nk11569\_D02  
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 119.5 nk11588\_D02 nk11590\_D02  
 119.5 nk11592\_D02 nk11591\_D02  
 119.7 nk11579\_D02  
 119.9 nk11572\_D02  
 120.2 nk11587\_D02  
 120.6 nk11605\_D02

qSLW\_D01\_150.2\*\*\*  
 qFW\_D01\_150.2\*\*\*  
 qSLW\_D01\_110\*\*\*

qSLW\_D02\_150.1  
 qSLW\_D02\_150.2  
 qFW\_D02\_150.1  
 qFW\_D02\_150.2  
 qFW\_D02\_150.3  
 qRWC\_D02\_150.1  
 qRWC\_D02\_150.2

D03(c-17)

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9.2 mki2032\_D03  
9.6 mki2033\_D03  
10.7 mki2034\_D03  
13.7 mki2036\_D03  
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22.6 mki2041\_D03  
37.6 mki2042\_D03  
38.5 mki2044\_D03  
39.3 mki2046\_D03 mki2045\_D03  
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44.6 mki2048\_D03  
44.7 mki2049\_D03  
45.2 mki2050\_D03  
45.7 mki2051\_D03  
46.0 mki2055\_D03 mki2052\_D03  
47.2 mki2054\_D03 mki2056\_D03  
47.3 mki2047\_D03  
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49.2 mki2057\_D03  
49.7 mki2058\_D03  
54.7 mki2059\_D03  
57.2 mki2063\_D03  
57.9 mki2060\_D03 mki2062\_D03  
mki2061\_D03  
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65.9 mki2064\_D03  
71.0 mki2068\_D03  
73.0 mki2070\_D03  
73.8 mki2069\_D03  
76.0 mki2073\_D03  
76.8 mki5018  
77.5 mki5021  
77.7 mki2079\_D03  
77.9 mki2074\_D03  
78.0 mki2071\_D03  
78.5 mki67  
78.7 mki5091  
79.0 mki5024  
79.3 mki2072\_D03  
79.4 mki5017  
79.6 mki5022  
79.7 mki5023  
79.8 mki5020  
80.1 mki5026  
80.3 mki5025  
81.2 mki2083\_D03  
81.7 mki2078\_D03  
81.9 mki2081\_D03  
82.6 mki2075\_D03 mki2076\_D03  
83.1 mki19502  
83.5 mki5027  
84.0 mki2080\_D03  
84.4 mki2082\_D03  
85.3 mki2084\_D03  
86.4 mki2087\_D03 mki2088\_D03  
mki2089\_D03  
87.2 mki2090\_D03  
87.3 mki2085\_D03  
87.5 mki2086\_D03  
87.6 mki2095\_D03  
87.8 mki2094\_D03  
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mki2093\_D03  
90.1 mki2097\_D03 mki2096\_D03  
94.5 mki2127\_D03 mki2129\_D03  
94.6 mki2126\_D03  
95.1 mki2125\_D03  
95.4 mki2121\_D03 mki2120\_D03  
95.4 mki2119\_D03  
95.7 mki2123\_D03  
96.0 mki2122\_D03  
96.1 mki2124\_D03  
99.2 mki2128\_D03  
102.0 mki2115\_D03  
103.2 mki2108\_D03  
103.9 mki2107\_D03  
105.0 mki2098\_D03  
105.8 mki2109\_D03  
106.5 mki2111\_D03  
106.7 mki2110\_D03  
107.6 mki2112\_D03  
108.6 mki2118\_D03  
109.6 mki2113\_D03  
109.7 mki2114\_D03  
110.0 mki2116\_D03 mki2117\_D03  
113.5 mki2130\_D03  
113.7 mki2131\_D03  
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114.8 mki2135\_D03  
115.0 mki2136\_D03  
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116.3 mki2138\_D03  
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134.6 mki2159\_D03  
135.0 mki2160\_D03  
141.7 mki2152\_D03 mki2155\_D03  
142.2 mki2154\_D03  
143.6 mki2156\_D03  
143.8 mki2153\_D03  
145.3 mki2158\_D03  
150.2 mki2161\_D03  
153.4 mki2169\_D03  
153.8 mki2170\_D03  
154.5 mki2163\_D03  
154.6 mki2165\_D03 mki2164\_D03  
154.7 mki2162\_D03 mki2166\_D03  
156.3 mki2098 mki2097  
156.8 mki2168\_D03  
157.2 mki2167\_D03  
157.6 mki2171\_D03  
161.1 mki19256  
170.6 mki2186\_D03

qFW\_D03\_ck\*\*\*

qLFW\_D03\_ck.1

qLFW\_D03\_ck.2

qLFW\_D03\_ck.3

qSLW\_D03\_ck.1\*\*\*

qSLW\_D03\_ck.2\*\*\*

qSLW\_D03\_ck.3\*\*\*

qDLW\_D03\_ck.1\*\*\*

qDLW\_D03\_ck.2\*\*\*

qDLW\_D03\_ck.3\*\*\*

qFW\_D03\_110.1\*\*\*

qFW\_D03\_110.2\*\*\*

qSLW\_D03\_110\*\*\*

qDLW\_D03\_110\*\*\*

qMDA\_D03\_150.1

qMDA\_D03\_150.2

qFW\_D03\_150.1\*\*\*

qFW\_D03\_150.2\*\*\*

qSLW\_D03\_150\*\*\*

D02\_2(c14)

D02\_3(c14)

120.7 mk11604\_D02  
 121.3 mk11594\_D02  
 121.9 mk11608\_D02  
 123.5 mk11554\_D02  
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 124.2 mk11553\_D02  
 124.4 mk11544\_D02  
 125.5 mk11573\_D02  
 125.9 mk11583\_D02 mk11581\_D02  
 126.0 mk11578\_D02 mk11584\_D02  
 126.1 mk11585\_D02 mk11582\_D02  
 126.7 mk11577\_D02  
 126.8 mk11586\_D02  
 127.7 mk11600\_D02 mk11598\_D02  
 126.7 mk11599\_D02  
 126.8 mk11601\_D02  
 127.7 mk11597\_D02 mk11596\_D02  
 135.2 mk11525\_D02  
 136.7 mk11522\_D02  
 139.7 mk11527\_D02  
 142.9 mk11485\_D02  
 146.4 mk11373\_D02  
 146.9 mk11375\_D02  
 147.2 mk11333\_D02  
 147.7 mk11404\_D02  
 147.8 mk11399\_D02  
 147.9 mk11353\_D02 mk11354\_D02  
 148.0 mk11398\_D02  
 148.2 mk11351\_D02  
 148.3 mk11377\_D02 mk11352\_D02  
 148.4 mk11417\_D02  
 148.5 mk11349\_D02  
 148.7 mk11406\_D02  
 148.8 mk11332\_D02  
 148.9 mk11407\_D02  
 149.0 mk11359\_D02  
 149.2 mk11328\_D02  
 149.5 mk11410\_D02  
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 150.5 mk11336\_D02  
 150.7 mk11456\_D02  
 151.1 mk11340\_D02  
 151.2 mk11348\_D02  
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 151.6 mk11346\_D02  
 151.8 mk11357\_D02 mk11356\_D02  
 152.2 mk11425\_D02  
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 153.5 mk11412\_D02 mk11411\_D02  
 153.7 mk11409\_D02  
 154.5 mk11394\_D02 mk11392\_D02  
 153.9 mk11393\_D02  
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 154.7 mk11329\_D02  
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 155.4 mk11390\_D02  
 155.5 mk11405\_D02  
 155.7 mk11369\_D02 mk11370\_D02  
 156.4 mk11368\_D02  
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 156.9 mk11427\_D02  
 157.3 mk11362\_D02  
 158.0 mk11420\_D02  
 158.1 mk11421\_D02  
 159.4 mk11408\_D02  
 160.6 mk11396\_D02 mk11395\_D02  
 160.8 mk11339\_D02  
 161.0 mk11371\_D02 mk11347\_D02  
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 161.5 mk11337\_D02  
 162.0 mk11456\_D02  
 163.2 mk11451\_D02 mk11450\_D02  
 163.9 mk11397\_D02  
 164.5 mk11335\_D02 mk11334\_D02  
 164.8 mk11429\_D02  
 164.9 mk11418\_D02 mk11419\_D02  
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 165.5 mk11376\_D02  
 166.5 mk11453\_D02 mk11454\_D02  
 167.4 mk11455\_D02  
 167.7 mk11469\_D02 mk11459\_D02  
 168.0 mk11512\_D02 mk11511\_D02  
 168.3 mk11504\_D02  
 169.2 mk11433\_D02 mk11372\_D02  
 169.4 mk11379\_D02  
 169.6 mk11439\_D02 mk11440\_D02  
 169.7 mk11438\_D02 mk11386\_D02  
 169.9 mk11385\_D02 mk11366\_D02  
 170.0 mk11387\_D02  
 170.1 mk11378\_D02 mk11385\_D02  
 170.2 mk11384\_D02  
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 170.7 mk11360\_D02 mk11361\_D02  
 171.1 mk11360\_D02  
 171.6 mk9287 mk9285  
 172.0 mk11342\_D02 mk11365\_D02  
 172.2 mk11344\_D02 mk11343\_D02  
 172.7 mk11442\_D02 mk11443\_D02  
 172.8 mk11441\_D02  
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 173.4 mk11413\_D02  
 173.5 mk11414\_D02  
 173.7 mk11401\_D02 mk11424\_D02  
 174.0 mk11389\_D02  
 174.2 mk11338\_D02  
 174.5 mk11400\_D02

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174.6 mk11402\_D02  
 174.7 mk11331\_D02  
 174.9 mk11432\_D02 mk11431\_D02  
 175.8 mk11482\_D02 mk11483\_D02  
 175.9 mk11481\_D02  
 176.3 mk11498\_D02  
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 178.5 mk11497\_D02  
 179.0 mk11494\_D02  
 179.6 mk11452\_D02  
 180.7 mk11487\_D02 mk11495\_D02  
 181.6 mk11520\_D02 mk11519\_D02  
 181.8 mk11528\_D02  
 181.9 mk12652  
 183.1 mk11501\_D02  
 183.5 mk11505\_D02  
 183.7 mk11506\_D02  
 183.9 mk11496\_D02  
 184.7 mk11502\_D02 mk11503\_D02  
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 187.3 mk11516\_D02  
 188.0 mk11513\_D02  
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 189.1 mk11517\_D02 mk11515\_D02  
 189.1 mk18780  
 189.2 mk3464  
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 190.3 mk11445\_D02 mk11449\_D02  
 190.4 mk11446\_D02 mk11444\_D02  
 190.4 mk11458\_D02  
 190.9 mk11472\_D02 mk11471\_D02  
 190.9 mk11470\_D02  
 191.2 mk11466\_D02  
 191.5 mk11463\_D02  
 191.9 mk11467\_D02  
 192.0 mk11468\_D02  
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 193.7 mk11422\_D02  
 194.1 mk11358\_D02  
 194.4 mk11329\_D02  
 194.9 mk11364\_D02 mk11363\_D02  
 196.3 mk11400\_D02  
 196.5 mk11489\_D02  
 196.6 mk11491\_D02  
 197.1 mk11492\_D02  
 197.3 mk11499\_D02  
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 197.9 mk11500\_D02  
 198.2 mk11486\_D02  
 198.6 mk11484\_D02  
 199.1 mk11462\_D02  
 199.3 mk11464\_D02  
 199.7 mk11870 mk18871  
 202.4 mk11488\_D02  
 204.1 mk11525\_D02  
 208.7 MulMa315-m\_D02  
 209.1 MulMa312-m\_D02 MulMa313\_D02  
 209.5 MulMa314-m\_D02  
 218.7 MulMa303-m\_D02  
 218.8 MulMa304\_D02  
 219.0 MulMa311\_D02  
 219.3 MulMa305\_D02 MulMa310\_D02  
 219.4 MulMa307-m\_D02 MulMa309-m\_D02  
 220.6 MulMa308\_D02 MulMa306-m\_D02  
 221.1 MulMa301\_D02 MulMa302\_D02  
 221.4 MulMa297-m\_D02  
 221.5 MulMa298-m\_D02 MulMa300\_D02  
 225.0 MulMa299\_D02  
 225.4 mk11950 mk119500  
 233.1 mk11949  
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 234.5 mk11280\_D02  
 234.7 mk11277\_D02  
 234.8 mk11279\_D02  
 234.9 mk11278\_D02  
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 236.0 mk11276\_D02 mk11273\_D02  
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 239.1 mk11284\_D02  
 240.2 mk11286\_D02  
 244.1 mk11285\_D02  
 248.5 MulMa295\_D02  
 250.7 mk11287\_D02  
 265.2 mk11261\_D02 mk11262\_D02  
 266.7 MulMa294\_D02 MulMa293\_D02  
 267.7 mk11260\_D02  
 271.7 mk11257\_D02  
 273.4 mk11252\_D02  
 274.9 mk11250\_D02 mk11251\_D02  
 285.7 mk11212\_D02  
 294.7 MulMa289\_D02 MulMa288\_D02  
 295.2 MulMa290\_D02 MulMa291-m\_D02  
 296.0 MulMa292-m\_D02  
 305.8 MulMa286\_D02 MulMa287-m\_D02  
 306.5 mk11164\_D02 mk11165\_D02  
 312.0 MulMa285\_D02  
 312.0 MulMa280\_D02  
 312.6 MulMa281\_D02  
 313.3 MulMa283\_D02 MulMa284\_D02  
 313.3 MulMa282-m\_D02

qEC\_D02\_150

D04(c22)

D05\_1(c19)

D05\_2(c19)

0.0 MulMa449-m\_D04  
 4.7 MulMa451\_D04  
 5.0 MulMa450\_D04  
 8.3 MulMa448\_D04  
 9.1 mk12595\_D04  
 9.8 MulMa442\_D04 MulMa441\_D04  
 9.9 MulMa440-m\_D04  
 9.9 MulMa443\_D04  
 10.7 MulMa439\_D04 MulMa438-m\_D04  
 10.9 MulMa437\_D04  
 10.9 MulMa447-m\_D04 MulMa445-m\_D04  
 11.4 MulMa446\_D04 MulMa444\_D04  
 16.9 mk12592\_D04 mk12591\_D04  
 29.7 MulMa436-m\_D04  
 49.9 MulMa434-m\_D04  
 50.0 MulMa435-m\_D04  
 50.3 MulMa433-m\_D04  
 54.8 MulMa409\_D04  
 55.3 MulMa408\_D04  
 55.6 MulMa406\_D04  
 55.8 MulMa407\_D04  
 57.7 MulMa377\_D04  
 57.9 MulMa378\_D04  
 58.9 mk12472\_D04  
 59.3 MulMa374-m\_D04  
 60.7 MulMa387\_D04  
 62.0 MulMa375-m\_D04  
 62.1 MulMa376-m\_D04  
 63.3 MulMa384\_D04 MulMa382\_D04  
 63.4 MulMa381\_D04 MulMa385-m\_D04  
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 mk12344\_D04

qEC\_D04\_ck

qCHL\_D04\_150.1

qCHL\_D04\_150.2

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 9.2 mk13119\_D05  
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 89.1 mk12908\_D05  
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qSL\_D05\_ck.1

qSL\_D05\_ck.2

qMDA\_D05\_150

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 122.3 mk12870\_D05  
 122.5 mk12869\_D05  
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 124.3 mk12867\_D05  
 127.2 mk12866\_D05  
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 144.7 MulMa463-m\_D05  
 148.8 mk12861\_D05  
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 153.4 mk12822\_D05 mk12823\_D05  
 154.1 mk12827\_D05 mk12820\_D05  
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 164.5 mk12834\_D05  
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 179.0 mk12799\_D05  
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 192.3 mk12785\_D05  
 193.3 mk12792\_D05  
 193.9 mk8783  
 193.9 mk12786\_D05  
 195.7 mk8784  
 195.7 mk12778\_D05  
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 201.9 mk10496  
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 210.7 mk12761\_D05  
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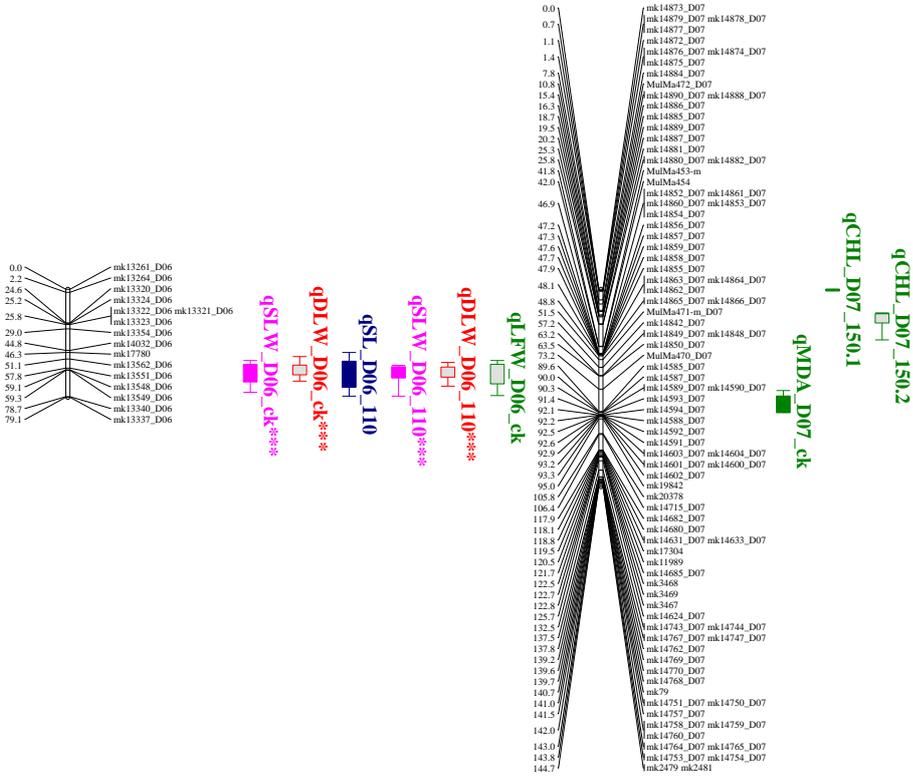
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qSL\_D05\_ck.4

qSL\_D05\_ck.5

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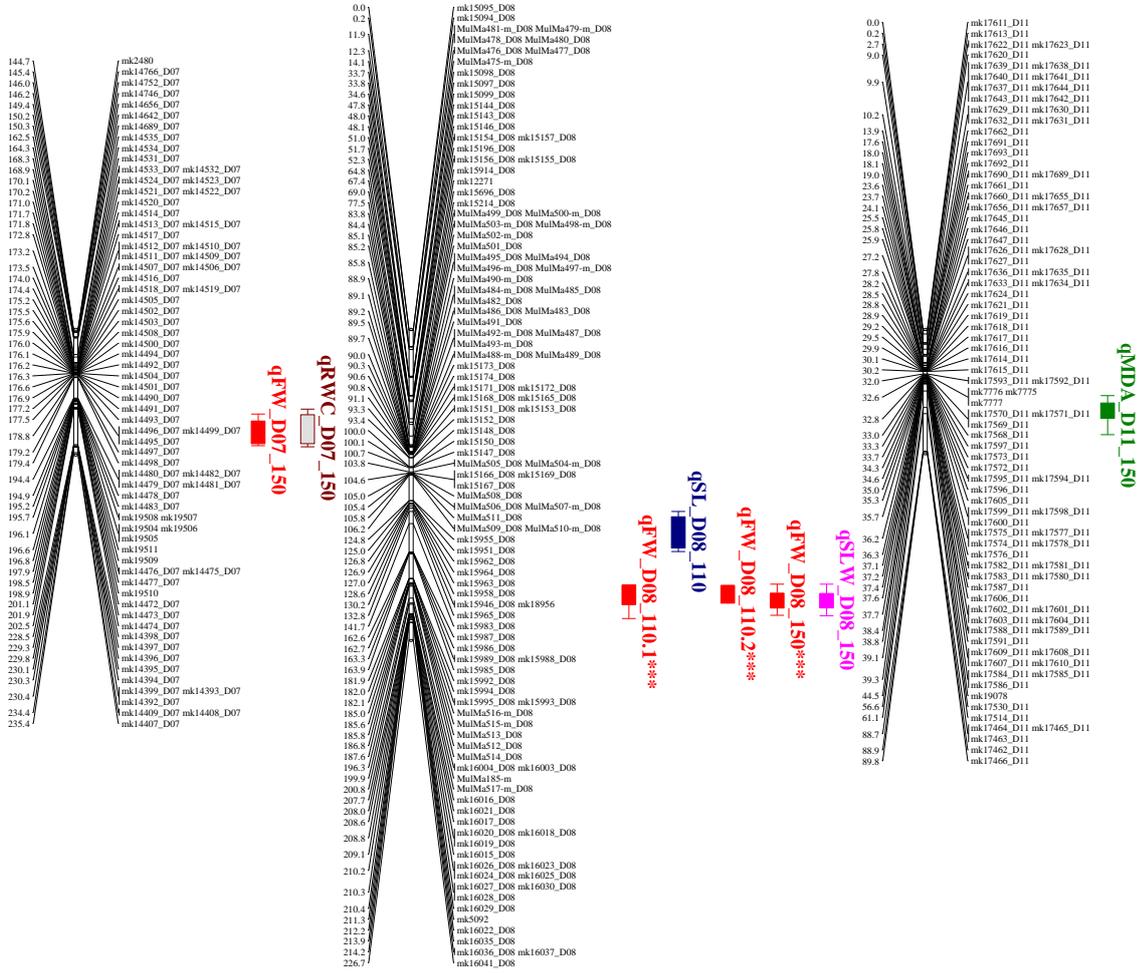
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D07\_2(c16)

D08(c24)

D11(c21)



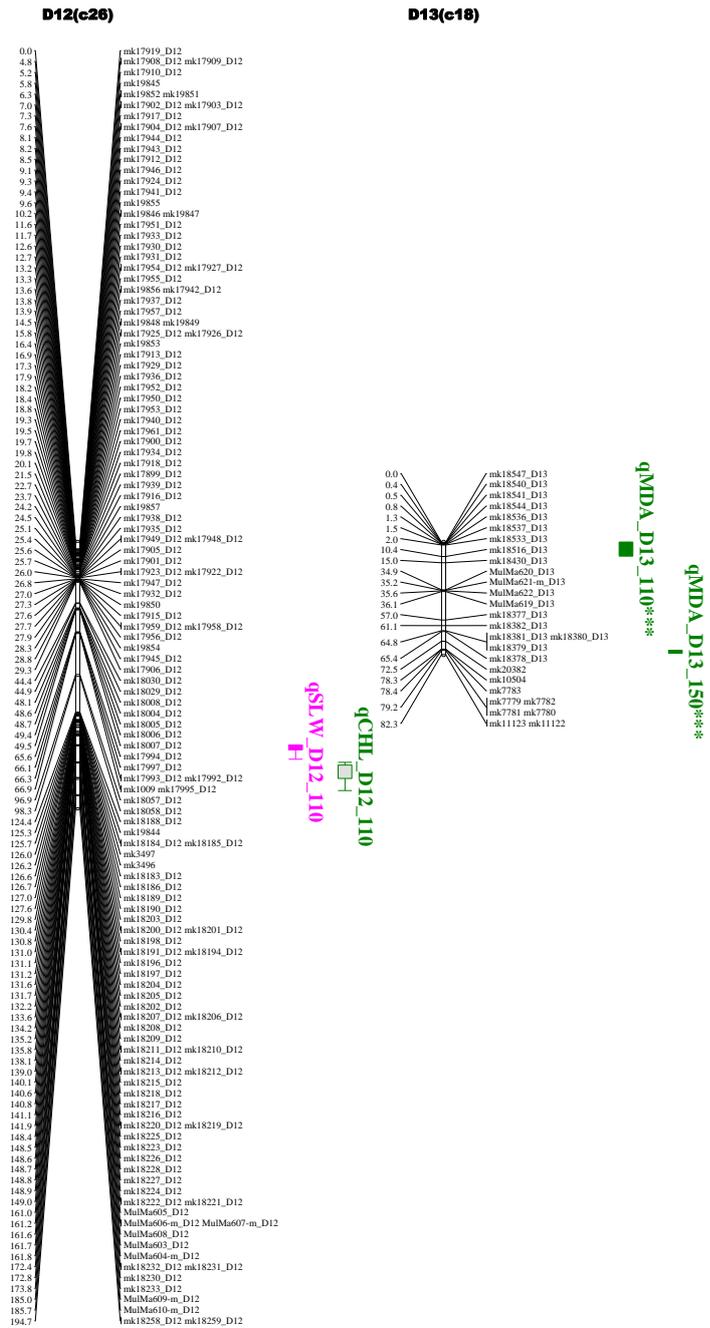


Figure S2: Total QTLs (66) found in this study, asterisk means consistent QTLs