

Supplementary material for the article entitled ‘Mapping of QTL for resistance to the Mediterranean corn borer attack using the intermated B73 × Mo17 (IBM) population of maize’

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Table S1 Genes annotated, based on transcript evidence and mapping of putative rice homologs, in contigs 382 and 383 (<http://www.plantgdb.org/ZmGDB/DisplayGeneAnn.php>).

BAC GI	Rice homolog	Description	Arabidopsis homolog
213973012	LOC_Os10g42420.1	ADP-ribosylation factor GTPase-activating protein 3	AT4G17890
211905002	LOC_Os10g42230.1	AT-hook protein 1	AT2G33620
210060656	LOC_Os10g42190.1	protein lap4	AT4G35470
209977531	LOC_Os10g42240.2	carbohydrate kinase-like protein	AT4G27600
209956408	LOC_Os10g41510.1	calcineurin B-like protein 9	AT5G47100
198386375	LOC_Os10g41534.2	ICE-like protease p20 domain containing protein	AT1G02170
198386375	LOC_Os10g41520.1	casein kinase II subunit beta-4	AT2G44680
198386375	LOC_Os07g31280.1	casein kinase II subunit beta-4	AT4G17640
194440791	LOC_Os10g42420.1	ADP-ribosylation factor GTPase-activating protein 3	AT4G17890
194440791	LOC_Os10g42439.1	GRV2	AT2G26890
194440791	LOC_Os10g42430.1	transcription factor MYC7E	AT1G32640
194440786	LOC_Os10g42430.1	transcription factor MYC7E	AT1G32640
194440786	LOC_Os10g42439.1	GRV2	AT2G26890
190341226	LOC_Os08g18044.1	tetraspanin family protein	AT1G32400
190341226	LOC_Os10g42100.1	pyruvate kinase isozyme G, chloroplast precursor	AT1G32440
190341226	LOC_Os03g56220.1	expressed protein	AT1G10020
190341226	LOC_Os10g42090.1	expressed protein	AT3G60150
190341226	LOC_Os10g42110.1	ATP binding protein	AT5G46570
187233517	LOC_Os10g41749.1	crcB-like protein	AT2G41705
187233517	LOC_Os09g15500.1	peroxidase 57 precursor	AT5G17820
168986563	LOC_Os10g42280.1	cyclase/dehydrase family protein	AT5G46790
168986563	LOC_Os10g42320.1	nonsense-mediated mRNA decay protein 3	AT2G03820
164698664	LOC_Os10g41560.1	expressed protein	AT4G17120
164698664	LOC_Os10g41550.1	beta-amylase	AT4G17090
160858370	LOC_Os05g35274.1	RNA recognition motif-containing protein	AT4G10110
149275364	LOC_Os10g41460.1	expressed protein	AT2G44730
124053574	LOC_Os10g42410.1	expressed protein	AT1G32700
213973117	LOC_Os10g40700.1	beta-expansin 1a precursor	AT1G65680

213973117	LOC_Os10g40730.1	beta-expansin 1a precursor	AT1G65680
213973017	LOC_Os10g40720.1	beta-expansin 1a precursor	AT1G65680
213973017	LOC_Os10g40730.1	beta-expansin 1a precursor	AT1G65680
213973017	LOC_Os10g40720.1	beta-expansin 1a precursor	AT1G65680
213972941	LOC_Os03g27080.1	calmodulin-binding transcription activator 2	AT5G09410
209977582	LOC_Os10g40584.1	nucleic acid binding protein	AT1G62520
209977582	LOC_Os10g40590.1	oxysterol-binding protein 1	AT4G22540
209977582	LOC_Os10g40640.1	transferase, transferring glycosyl groups	AT2G35710
209956603	LOC_Os10g40584.1	nucleic acid binding protein	AT1G62520
209956603	LOC_Os10g40550.1	trehalose-phosphate phosphatase	AT4G22590
209955344	LOC_Os10g40640.1	transferase, transferring glycosyl groups,	AT2G35710
209955237	LOC_Os10g40090.1	beta-expansin 1a precursor	AT1G65680
209955117	LOC_Os03g27080.1	calmodulin-binding transcription activator 2	AT5G09410
198443019	LOC_Os03g26530.1	acyltransferase, putative	AT2G28630
196049519	LOC_Os11g38949.1	40S ribosomal protein S9	AT5G39850
196049519	LOC_Os11g38959.1	40S ribosomal protein S9	AT5G39850
196049519	LOC_Os03g05980.1	40S ribosomal protein S9	AT5G39850
196049519	LOC_Os03g26229.1	40S ribosomal protein S9	AT5G15200
196049519	LOC_Os03g26530.1	acyltransferase	AT2G28630
193885093	LOC_Os10g41290.1	protein kinase PVPK-1	AT2G44830
193885093	LOC_Os10g41270.1	triacylglycerol lipase like protein	AT4G16820
190341200	LOC_Os05g26926.1	chaperone protein dnaJ	AT2G22360
190341200	LOC_Os05g26902.1	chaperone protein dnaJ	AT2G22360
190341200	LOC_Os05g26914.1	chaperone protein dnaJ	AT2G22360
183227789	LOC_Os05g26914.1	chaperone protein dnaJ	AT2G22360
183227789	LOC_Os05g26926.1	chaperone protein dnaJ	AT2G22360
183227789	LOC_Os05g26902.1	chaperone protein dnaJ	AT2G22360
169636641	LOC_Os06g08860.1	UDP-glucuronic acid/UDP-N-acetylgalactosamine transporter	AT4G31600
169636641	LOC_Os10g41190.1	hexose carrier protein HEX6	AT5G61520
169636641	LOC_Os10g41200.1	ZmMybst1	AT5G47390
169404837	LOC_Os09g33800.1	arabinogalactan protein	AT5G11680
169404459	LOC_Os03g26200.1	ankyrin protein kinase-like	AT1G26850
169404459	LOC_Os11g38949.1	40S ribosomal protein S9	AT5G39850
169404459	LOC_Os11g38959.1	40S ribosomal protein S9	AT5G39850
169404459	LOC_Os03g05980.1	40S ribosomal protein S9	AT5G39850
169404459	LOC_Os03g26229.1	40S ribosomal protein S9	AT5G15200
169404459	LOC_Os03g26220.1	expressed protein	AT2G02880
168824087	LOC_Os03g25970.1	nucleic acid binding protein	AT5G15270
166235296	LOC_Os10g41360.1	ubiquitin-protein ligase	AT2G44900
164698652	LOC_Os09g33800.1	arabinogalactan protein	AT5G11680

164565790	LOC_Os03g26200.1	ankyrin protein kinase-like	AT1G26850
164565790	LOC_Os07g44330.2	protein kinase, mitochondrial precursor,	AT3G06483
162870535	LOC_Os10g40110.1	ATTOC132/TOC132	AT2G16640
162870535	LOC_Os10g40130.1	UDP-N-acetylmuramoylalanyl-D-glutamate-- 2,6-diaminopimelate ligase	AT1G63680
161789554	LOC_Os10g41310.1	bZIP-like protein	AT3G60320
157910197	LOC_Os06g03486.1	expressed protein	AT2G46390
154091159	LOC_Os03g25940.1	cystathionine beta-lyase	AT3G01120
154091159	LOC_Os03g25930.1	transmembrane emp24 domain-containing protein 10 precursor	AT1G26690
144226654	LOC_Os01g10290.1	autophagy-related protein 3	AT5G61500
144226654	LOC_Os10g41110.1	autophagy-related protein 3	AT5G61500
133755134	LOC_Os10g41240.2	protein-tyrosine phosphatase mitochondrial 1, mitochondrial precursor	AT2G35680
133755134	LOC_Os10g41440.1	nucleic acid binding protein	AT4G26000
126352929	LOC_Os07g44330.2	protein kinase, mitochondrial precursor,	AT3G06483
126352929	LOC_Os03g25980.3	polypyrimidine tract-binding protein homolog 1,	AT3G01150
126352929	LOC_Os10g21300.1	ATP-dependent Clp protease proteolytic subunit,	ATCG00670
126352929	LOC_Os06g39720.1	ATP-dependent Clp protease proteolytic subunit,	ATCG00670