

Table S5. Candidate genes in the QTL region on chromosome 5

Position	Chromosome	Ref	Alt	Effect	Type	Gene ID	Ortholog in Arabidopsis	Description
41807338	Chr05	T	G	Nonsynonymous	SNP	<i>Glyma.05G243400</i>	AT1G18070.2	Translation elongation factor EF1A/initiation factor IF2gamma family protein
41799525	Chr05	T	C	Upstream	SNP	<i>Glyma.05G243300</i>	AT1G18060.1	-
41855575	Chr05	A	G	Upstream	SNP	<i>Glyma.05G244100</i>	AT1G18100.1	PEBP (phosphatidylethanolamine-binding protein) family protein
41864477	Chr05	G	C	Upstream	SNP	<i>Glyma.05G244200</i>	AT3G18050.1	-
41836669	Chr05	T	-	Upstream	InDel	<i>Glyma.05G243800</i>	AT3G18130.1	receptor for activated C kinase 1C
41850737	Chr05	-	TTTT	Upstream	InDel	<i>Glyma.05G244000</i>	-	-
41855657	Chr05	CA	-	Upstream	InDel	<i>Glyma.05G244100</i>	AT1G18100.1	PEBP (phosphatidylethanolamine-binding protein) family protein