

**Table S1.** Annotations of candidate genes in the regions associated with resistance to seed coat mottle on chromosome 17 identified by QTL

Gene name	Chromosome location	Description
Glyma.17g091000	7090658..7095786	Aldehyde dehydrogenase family 2 member B7
Glyma.17g091100	7104761..7108078	Spermidine/Spermine synthase
Glyma.17g091200	7108545..7111325	-
Glyma.17g091300	7117558..7118753	Ribonuclease-III-like
Glyma.17g091400	7121485..7123304	NHL Repeat-containing protein
Glyma.17g091500	7123547..7128908	RNA-Dependent RNA polymerase 2
Glyma.17g091600	7129703..7131752	Ring-H2 Finger protein ATL46
Glyma.17g091700	7137498..7144510	Ubiquitin-conjugating enzyme E2
Glyma.17g091800	7148687..7151222	EamA-like transporter family
Glyma.17g091900	7153824..7156521	EamA-like transporter family
Glyma.17g092000	7156656..7162229	Serine protease family S1C HTRA-Related
Glyma.17g092100	7165302..7169295	RAC-like GTP-binding protein ARAC10-Related
Glyma.17g092200	7171264..7177804	BAH and TFIIS domain-containing protein
Glyma.17g092300	7188216..7194856	Nucleobase-ascorbate transporter 5-Related
Glyma.17g092400	7196180..7200287	Spermidine/Spermine synthase SF28
Glyma.17g092500	7216269..7218031	-
Glyma.17g238900	39439398..39442109	Transcription factor MYC/MYB N-terminal
Glyma.17g239000	39449685..39454670	Cysteine protease family C1-related

The predicted genes are based on the reference genome GlymaWm82.a2.v1 (<https://jgi.doe.gov/>)