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| **S1 Table.** List of genes in the 100-kb candidate region between genetic markers GM635 and GM645. |  |
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| **Gene** | **Annotation** |
| AT4G10190 | F-box and associated interaction domains-containing protein |
| AT4G10200 | TTF-type zinc finger protein with HAT dimerisation domain |
| AT4G10201 | Pseudogene of AT3G21130 |
| AT4G10210 | Protein of Unknown Function (DUF239) |
| AT4G10220 | Protein of Unknown Function (DUF239) |
| AT4G10230 | Unknown protein |
| AT4G10240 | B-BOX DOMAIN PROTEIN 23 |
| AT4G10250 | Columbia endomembrane-localized small heat shock protein |
| AT4G10260 | pfkB-like carbohydrate kinase family protein |
| AT4G10265 | Wound-responsive family protein |
| AT4G10270 | Wound-responsive family protein |
| AT4G10280 | RmlC-like cupins superfamily protein |
| AT4G10290 | RmlC-like cupins superfamily protein |
| AT4G10300 | RmlC-like cupins superfamily protein |
| AT4G10310 | A sodium transporter (HKT1) expressed in xylem parenchyma cells |
| AT4G10320 | tRNA synthetase class I (I, L, M and V) family protein |
| AT4G10330 | Glycine-rich protein |
| AT4G10340 | Photosystem II encoding the light-harvesting chlorophyll a/b binding protein |
| AT4G10345 | Encodes a microRNA of unknown function |
| AT4G10350 | Encode a transcription factor |
| AT4G10360 | TRAM, LAG1 and CLN8 (TLC) lipid-sensing domain containing protein |
| AT4G10370 | Cysteine/Histidine-rich C1 domain family protein |
| AT4G10380 |  NOD26-LIKE INTRINSIC PROTEIN 5;1, Boric acid channel. |
| AT4G10390 | Protein kinase superfamily protein |
| AT4G10400 | F-box/RNI-like/FBD-like domains-containing protein |
| AT4G10410 | Leucine-rich repeat (LRR) family protein |

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