

Table S1. Details of 13 annotated genes locating between markers T001855631m and sc21_3420 flanking the QTL *qSBR18.1* on the soybean chromosome 18 controlling resistance to soybean rust disease caused by *Phakopsora pachyrhizi* detected in 108 RILs derived from a cross between Sukhothai 2 and Chiang Mai 5.

| Gene | Position on chromosome 18 | Protein |
|------------------------|---------------------------|--|
| <i>Glyma.18G225400</i> | 51639851..51640752 | BON1-ASSOCIATED PROTEIN 1-RELATED |
| <i>Glyma.18G225500</i> | 51640929..51645812 | RING FINGER DOMAIN-CONTAINING protein |
| <i>Glyma.18G225600</i> | 51649274..51650627 | PENTATRICOPEPTIDE (PPR) REPEAT-CONTAINING PROTEIN |
| <i>Glyma.18G225700</i> | 51651369..51656265 | GLYCOGEN SYNTHASE KINASE-3 ALPHA // SHAGGY-RELATED PROTEIN KINASE BETA-RELATED |
| <i>Glyma.18G225800</i> | 51673815..51680882 | homeobox-leucine zipper protein (HD-ZIP) |
| <i>Glyma.18G225850</i> | 51703421..51708090 | RNA-binding protein |
| <i>Glyma.18G225900</i> | 51705916..51712814 | METHYLTRANSFERASE // METHYLTRANSFERASE PMT13-RELATED |
| <i>Glyma.18G226200</i> | 51733771..51741540 | METHYLTRANSFERASE |
| <i>Glyma.18G226250</i> | 51753139..51765121 | LEUCINE-RICH REPEAT-CONTAINING PROTEIN |
| <i>Glyma.18G226300</i> | 51765121..51782390 | LEUCINE-RICH REPEAT-CONTAINING PROTEIN |
| <i>Glyma.18G226400</i> | 51783146..51786175 | Protein of unknown function |
| <i>Glyma.18G226500</i> | 51789555..51832726 | LEUCINE-RICH REPEAT-CONTAINING PROTEIN |
| <i>Glyma.18G226551</i> | 51843008..51843128 | <i>No homologs were found for this gene</i> |