

Table S2 DEGs in KEGG enrichment in 'Plant hormone signal transduction', 'Starch and sucrose metabolism', 'MAPK signaling pathway'.

| Grafting combination | KEGG description | Gene ID | Gene description |
|----------------------|--|--|--|
| F-I-S Vs I-F-R | MAPK signaling pathway - plant | LOC103424105 | ethylene receptor 2-like [<i>Malus domestica</i> (apple)] |
| | Starch and sucrose metabolism | LOC103436283 | basic form of pathogenesis-related protein 1-like [<i>Malus domestica</i> (apple)] |
| | | LOC103438567 | probable trehalose-phosphate phosphatase D [<i>Malus domestica</i> (apple)] |
| | F-I-R Vs I-I-R | Plant hormone signal transduction | LOC103453816 |
| LOC103424105 | | | ethylene receptor 2-like [<i>Malus domestica</i> (apple)] |
| I-F-S Vs I-I-S | MAPK signaling pathway - plant | LOC103445717 | auxin-induced protein AUX28 [<i>Malus domestica</i> (apple)] |
| | | LOC103436283 | basic form of pathogenesis-related protein 1-like [<i>Malus domestica</i> (apple)] |
| | Plant hormone signal transduction | LOC103404780 | transcription factor MYC2-like [<i>Malus domestica</i> (apple)] |
| | | LOC103412151 | serine/threonine-protein kinase OXI1-like [<i>Malus domestica</i> (apple)] |
| | Starch and sucrose metabolism | LOC103444275 | auxin-responsive protein SAUR32-like [<i>Malus domestica</i> (apple)] |
| | | LOC103404780 | transcription factor MYC2-like [<i>Malus domestica</i> (apple)] |
| | | LOC103436283 | basic form of pathogenesis-related protein 1-like [<i>Malus domestica</i> (apple)] |
| | | LOC103436302 | pathogenesis-related protein 1-like [<i>Malus domestica</i> (apple)] |
| | | LOC103434045 | pathogenesis-related protein 1-like [<i>Malus domestica</i> (apple)] |
| | | LOC103436283 | basic form of pathogenesis-related protein 1-like [<i>Malus domestica</i> (apple)] |
| | | LOC103434165 | auxin-responsive protein IAA3-like [<i>Malus domestica</i> (apple)] |
| | | LOC103436302 | pathogenesis-related protein 1-like [<i>Malus domestica</i> (apple)] |
| | | LOC103445478 | probable xyloglucan endotransglucosylase/hydrolase protein 23 [<i>Malus domestica</i> (apple)] |
| | | LOC103432477 | gibberellin receptor GID1B-like [<i>Malus domestica</i> (apple)] |
| LOC103410576 | | auxin-responsive protein IAA1-like [<i>Malus domestica</i> (apple)] | |
| LOC103434045 | | pathogenesis-related protein 1-like [<i>Malus domestica</i> (apple)] | |
| LOC103400901 | sucrose synthase [<i>Malus domestica</i> (apple)] | | |
| LOC103450387 | hexokinase-2, chloroplastic [<i>Malus domestica</i> (apple)] | | |
| LOC103444250 | sucrose synthase 5 [<i>Malus domestica</i> (apple)] | | |
| LOC103431945 | alpha,alpha-trehalose-phosphate synthase [UDP-forming] 1-like [<i>Malus domestica</i> (apple)] | | |
| LOC103436320 | beta-glucosidase 12-like [<i>Malus domestica</i> (apple)] | | |
| LOC103444513 | probable sucrose-phosphate synthase 4 [<i>Malus domestica</i> (apple)] | | |
| LOC103440507 | glucose-6-phosphate isomerase, cytosolic 2B-like [<i>Malus domestica</i> (apple)] | | |