**Table S6. Gene Ontology enrichment analysis for differentially expressed genes downregulated in LGS compared to LNS**

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| --- | --- | --- | --- |
| Ontology | Term | Gene number | FDR |
| Biological process | response to abscisic acid | 16 | 0.0341  |
| fruit ripening | 4 | 0.0341  |
| ethylene biosynthetic process | 4 | 0.0341  |
| recognition of pollen | 8 | 0.0341  |
| response to aluminum ion | 3 | 0.0341  |
| defense response | 23 | 0.0341  |
| oxidation-reduction process | 28 | 0.0430  |
| Cellular component | plasmodesma | 25 | 0.0139  |
| plant-type vacuole | 6 | 0.0178  |
| Molecular function | xenobiotic transmembrane transporting ATPase activity | 6 | 0.0005  |
| ADP binding | 15 | 0.0005  |
| ATPase activity, coupled to transmembrane movement of substances | 9 | 0.0072  |