Supplementary Table 1.

| category | species | proteins |
| --- | --- | --- |
| Dicots | *Arabidopsis thaliana* | GCF\_000001735.4 |
| *Solanum lycopersicum* | GCF\_000188115.4 |
| *Eucalyptus grandis* | GCF\_016545825.1 |
| *Medicago truncatula* | GCF\_003473485.1 |
| *Populus trichocarpa* | GCF\_000002775.4 |
| *Citrus sinensis* | GCF\_000317415.1 |
| *Theobroma cacao* | GCF\_000208745.1 |
| *Brassica oleracea* | GCF\_000695525.1 |
| *Aquilegia coerulea* | GCA\_002738505.1 |
| Monocots | *Oryza sativa* | GCF\_001433935.1 |
| *Zea mays* | GCF\_902167145.1 |
| *Setaria italica* | GCF\_000263155.2 |
| *Ananas comosus* | GCF\_001540865.1 |
| *Musa acuminata* | GCF\_000313855.2 |
| *Oropetium thomaeum* | Othomaeum\_386\_v1.0 |
| *Zostera marina* | GCA\_001185155.1 |
| Basal Angiosperm | *Amborella trichopoda* | GCF\_000471905.2 |
| Mosses | *Physcomitrella patens* | GCF\_000002425.4 |
| *Sphagnum fallax* | GCA\_021442195.1 |
| Marchantiophyta | *Marchantia polymorpha* | GCA\_003032435.1 |
| Metazoans | *Homo sapiens* | GCF\_000001405.39 |
| *Xenopus tropicalis* | GCF\_000004195.4 |
| *Danio rerio* | GCF\_000002035.6 |
| *Ciona savignyi* | Ciona\_savignyi.CSAV2.0 |
| *Strongylocentrotus purpuratus* | GCF\_000002235.5 |
| *Drosophila melanogaster* | GCF\_000001215.4 |
| *Caenorhabditis elegans* | GCF\_000002985.6 |
| *Lottia gigantea* | GCF\_000327385.1 |
| *Dictyostelium discoideum* | GCF\_000004695.1 |
| *Apis mellifera* | GCF\_003254395.2 |
| *Ciona intestinalis* | GCF\_000224145.3 |
| *Daphnia pulex* | GCF\_021134715.1 |
| *Takifugu rubripes* | GCF\_901000725.2 |
| *Gallus gallus* | GCF\_016699485.2 |
| *Naegleria gruberi* | GCF\_000004985.1 |
| *Phytophthora sojae* | GCF\_000149755.1 |
| Fungi | *Nadsonia fulvescens* | GCA\_001661315.1 |
| *Schizosaccharomyces pombe* | GCF\_000002945.1 |
| *Aspergillus niger* | GCF\_000002855.3 |