Supplementary file 1. *TPS* genes were used to construct evolutionary tree.

|  |  |  |  |
| --- | --- | --- | --- |
| Species | Gene names | Gene ID | Database |
| *Arabidopsis thaliana* | *AtTPS1* | *At1g78580* | TAIR |
|  | *AtTPS2* | *At1g16980* |  |
|  | *AtTPS3* | *At1g17000* |  |
|  | *AtTPS4* | *At4g27550* |  |
|  | *AtTPS5* | *At4g17770* |  |
|  | *AtTPS6* | *At1g68020* |  |
|  | *AtTPS7* | *At1g06410* |  |
| *Glycine max**Oryza sativa**Cucumis sativus* | *AtTPS8**AtTPS9**AtTPS10**AtTPS11**GmTPS1**GmTPS2**GmTPS3**GmTPS4**GmTPS5**GmTPS6**GmTPS7**GmTPS8**GmTPS9**GmTPS10**GmTPS11**GmTPS12**GmTPS13**GmTPS14**GmTPS15**GmTPS16**GmTPS17**GmTPS18**GmTPS19**GmTPS20**OsTPS1**OsTPS2**OsTPS3**OsTPS4**OsTPS5**OsTPS6**OsTPS7**OsTPS8**OsTPS9**OsTPS10**OsTPS11**CsTPS1**CsTPS2**CsTPS3**CsTPS4**CsTPS5**CsTPS6**CsTPS7* | *At1g70290* *At1g23870* *At1g60140* *At2g18700* *Glyma15g2748**Glyma12g36280**Glyma08g12760**Glyma05g29651**Glyma20g25540**Glyma07g26980**Glyma12g15500**Glyma01g03870**Glyma02g03820**Glyma18g18590**Glyma17g07530**Glyma02g09480**Glyma04g35190**Glyma05g02020**Glyma06g19590**Glyma06g42820**Glyma08g39870**Glyma10g41680**Glyma13g01420**Glyma13g33970**LOC\_Os05g44210**LOC\_Os01g54560**LOC\_Os01g53000**LOC\_Os03g12360**LOC\_Os02g54820**LOC\_Os05g44100**LOC\_Os08g31980**LOC\_Os08g34580**LOC\_Os09g25890**LOC\_Os09g23350**LOC\_Os09g20990**Csa\_1G005560**Csa\_1G467060**Csa\_3G009420**Csa\_4G622880**Csa\_5G602180**Csa\_6G520240**Csa\_7G049190* | PhytozomeRice Genome Annotation ProjectEnsemblPlants |