

Phylogenetic tree showing relationships between various TCP3 and TCP4 proteins. The tree is rooted on the left and branches out to the right. Proteins are labeled with their accession numbers and names. Some labels are in blue, some in red, and some in green. The tree shows several distinct clusters of related proteins.

Key clusters and proteins include:

- Top cluster (Cycloidea-like proteins):** AAG45501 *Populus trichocarpa* teosinte-branched-like protein, AAD45359 *Linaria vulgaris* AAP03349 *Nuttallanthus canadensis* AAP03350 *Linaria vulgaris* cycloidea-like protein/CYCLOIDEA-like protein /CYCLOIDEA-like protein, AAP03345 *Asarina procumbens* CYCLOIDEA-like protein, AAP03344 *Maurandya antirrhiniflora* CYCLOIDEA-like protein, AAP03343 *Lophospermum* sp. 91/97 CYCLOIDEA-like protein, AAP03346 *Cymbalaria muralis* CYCLOIDEA-like protein, AAP03342 *Kickxia spuria* CYCLOIDEA-like protein, AAP46508 *Antirrhinum cornutum* AAP46509 *Antirrhinum coulterianum* AAP46510 *Antirrhinum multiflorum* AAP46511 *Antirrhinum nuttallianum* AAP46514 *Antirrhinum virga* AAP46515 *Antirrhinum vexilllocalyculatum* AAP46516 *Mohavea confertiflora* AAP84100, AAP03348 *Chaenorhinum villosum* CYCLOIDEA-like protein, AAF07225 *Antirrhinum graniticum* AAF07226 AAP46501 *Antirrhinum multiflorum* AAP46512 *Antirrhinum ovatum* AAP46513 *Antirrhinum subcordatum* AAP84102 *Chaenorhinum organifolium* CAJ44128 *Misopates orontium* cyc1A protein/cyc1A protein /CYCLOIDEA-li, AAP03337 *Linaria vulgaris* DICHOTOMA-like protein, AAP03338 *Chaenorhinum villosum* DICHOTOMA-like protein, AAP03339 *Asarina procumbens* AAP03340 *Lophospermum* sp. 91/97 DICHOTOMA-like protein /DICHOTOMA-like protein, AAP46527 *Antirrhinum cornutum* DICHOTOMA-like protein, AAF07265 *Antirrhinum majus* subsp. *cirrigherum* AAF07266 AAF07267 *Digitalis purpurea* AAF07268 *Antirrhinum graniticum* AAF07269 AAF07270 *Misopates orontium* AAF07271 AAP46526 *Mohavea confertiflora* AAP46529 *Antirrhinum multiflorum* AAP46531 *Antirr*, AAP46528 *Antirrhinum coulterianum* DICHOTOMA-like protein, AAP46530 *Antirrhinum nuttallianum* AAP84105 DICHOTOMA-like protein/DICHOTOMA-like, AAP46522 *Antirrhinum ovatum* DICHOTOMA-like protein, AAP46524 *Antirrhinum virga* DICHOTOMA-like protein, AAP46525 *Antirrhinum vexilllocalyculatum* DICHOTOMA-like protein, AAP84104 *Misopates orontium* DICHOTOMA-like, AAP46523 *Antirrhinum subcordatum* DICHOTOMA-like protein, AAP03341 *Misopates orontium* DICHOTOMA-like protein, AAF07263 *Misopates orontium* AAF07264 AAP46517 *Antirrhinum cornutum* AAP46518 *Antirrhinum coulterianum* AAP46519 *Antirrhinum leptaleum* AAP46520 *Antirrhinum multiflorum* AAP46521 *Antirrhinum nuttallianum* cyc3 protein/cyc3 protein /DICHOTOMA-like
- AT1G53230 = NP_564624 AAC24010 AAF69550 AAM20529 AAN15585 TCP3; transcription factor/TCP3 /F12M16.13 /putative flower development protein cycloidea /putative flower development protein cycloidea**
- NP_916166 *Oryza sativa* (japonica cultivar-group) BAB92954 P0503C12.19/transcription factor PCF7**
- AAO43102 *Antirrhinum majus* mutant cinnata**
- AAG43412 *Lycopersicon esculentum* cycloidea**
- AT2G31070 = NP_565712 AAC63845 AAL24427 AAN65081 transcription factor/expressed protein /Unknown protein /Unknown protein**
- NP_913318 *Oryza sativa* (japonica cultivar-group) BAB92952 BAD73155 putative TCP3/transcription factor PCF5 /transcription factor PCF5**
- CAD19990 *Lupinus albus* TCP1 protein**
- AT3G15030 = NP_850589 NP_188121 BAA97066 AAM19816 AAN31111 TCP4; transcription factor/TCP4; transcription factor /unnamed protein product /AT3g15030/K15M2_17 /At3g15030/K15M2_17**
- Smo_TCP3_6_3 Smo_TCP3_38_1**
- NP_916237 *Oryza sativa* (japonica cultivar-group) BAB92377 P0512C01.32/putative transcription factor**
- XP_475704 *Oryza sativa* (japonica cultivar-group) AAV59297 putative TCP transcription factor/putative TCP transcription factor**
- AT5G08070 = NP_196424 CAB93708 transcription factor/putative helix-loop-helix DNA binding protein**
- AT5G60970 = NP_200905 BAB10646 transcription factor/unnamed protein product**
- AT3G02150 = NP_850501 NP_566164 AAF02122 AAF14823 BAA88760 AAM62743 AAN71993 AAP68278 PTF1 (PLASTID TRANSCRIPTION FACTOR 1); transcription factor/PTF1 (PLASTID TRANSCRIPTION FACTOR 1); transcription factor /unknown protein /unknown protein /TFPD /un**
- XP_476577 *Oryza sativa* (japonica cultivar-group) BAC83480 transcription factor PCF8-like/transcription factor PCF8-like**
- BAC01119 *Oryza sativa* (japonica cultivar-group) ABA99859 transcription factor PCF8/transposon protein, putative, unclassified**
- CAD91129 *Solanum tuberosum* putative transcription factor**
- AT1G30210 = NP_564351 NP_849730 AAG50562 AAK59513 AAL15303 AAM44946 transcription factor/transcription factor /hypothetical protein /unknown protein /At1g30210/F12P21_11 /unknown protein**
- AT4G18390 = NP_567553 CAA16719 AAC26786 CAB78841 AAK56259 AAK56280 AAM26708 transcription factor/teosinte branched1 - like protein /putative basic helix-loop-helix DNA binding protein TCP2 /teosinte branched1-like protein /AT4g18390/F28J12_50 /AT4g1**
- XP_476664 *Oryza sativa* (japonica cultivar-group) BAC79520 BAD31918 putative transcription factor PCF6/putative transcription factor PCF6 /putative transcription factor PCF6**
- BAB92953 *Oryza sativa* (japonica cultivar-group) transcription factor PCF6**
- Smo_TCP3_3_1 Smo_TCP3_9_2**
- Smo_TCP3_12_1 Smo_TCP3_21_2**
- Ppa_TCP3_3_2**
- Ppa_TCP3_5_2**

Pa_TCP3_5_2