```
OGs_100099_T1_68_before
                            Monocots_ACG_0025787
                            -Monocots_AEO_0000757
                            Monocots_AGJ_0008963
   Monocots_AHE_0020022
   -Monocots_AFA_0002900
   Monocots_AGW_0026196
   Monocots_ABP_0030968
   Monocots ACC 0006595
   Monocots_ACX_0041261
   <sup>L</sup>Monocots_AEX_0006706
   Monocots_AIT_0040818
   -Monocots_ABQ_0025971
   Monocots_AIS_0008845
   Monocots_AFT_0004283
                                                     OGs_100099_T1_68_after
   -Monocots AFD 0006155
                                                                                   Monocots_ACG_0025787
   「Monocots_ADO_0034544
                                                                                    -Monocots_AEO_0000757
   Monocots_AGD_0016218
                                                                                   Monocots_AGJ_0008963
   Monocots_AAH_0028921
                                                         Monocots_AHE_0020022
   -Monocots_AIR_0014797
                                                         -Monocots_AFA_0002900
   -Monocots_AEB_0002914
                                                         Monocots_AGW_0026196
  Monocots_AEY_0009039
                                                         Monocots_ABP_0030968
  Monocots_AHF_0006091
                                                         Monocots_AEX_0006706
  <sup>L</sup>Monocots_ADV_0011882
                                                         Monocots_ACX_0041261
           -Monocots_AAV_0000652
                                                         -Monocots_AIT_0040818
   -Monocots_ABF_0017318
                                                         Monocots_ABQ_0025971
  -Monocots_AFF_0006020
                                                         Monocots AIS 0008845
 -Monocots_AEQ_0027679
                                                         Monocots AFT 0004283
 Monocots_AIH_0034861
                                                         -Monocots_AFD_0006155
                            -Monocots_AAN_0020423
                                                         Monocots_ADO_0034544
     Monocots_AKN_0016319
                                                         Monocots_AGD_0016218
     Monocots AKO 0018337
                                                         Monocots_AAH_0028921
 Chloranthales_ABU_0001851
                                                         -Monocots AIR 0014797
 Chloranthales_ABV_0007437
                                                         -Monocots_AEB_0002914
                              -Monocots_AAO_0018676
                                                        Monocots_AEY_0009039
 [Monocots_AKE_0020673
                                                        -Monocots_AHF_0006091
 Monocots_AAE_0009319
                                                        Monocots_ADV_0011882
 Magnoliids ABX 0021760
                                                        Monocots_AFF_0006020
 Magnoliids_ABW_0025471
                                                         Monocots_ABF_0017318
    -Magnoliids ABS 0018542
                                                       <sup>L</sup>Monocots_AIH_0034861
   -Eudicots_AKF_0008305
                                                      Chloranthales_ABU_0001851
  -Eudicots_AKD_0008553
                                                       Magnoliids_ABX_0021760
  Eudicots_AKH_0014800
                                                       Magnoliids ABW 0025471
  <sup>L</sup>Eudicots_AKK_0002466
                                                         -Magnoliids_ABS_0018542
 Eudicots_ADL_0033098
                                                         -Eudicots_AKF_0008305
     -Eudicots AAS 0013909
                                                        Eudicots_AKD_0008553
  Eudicots_AKA_0009764
                                                       Eudicots_AKH_0014800
  Eudicots_AKC_0022247
                                                       Eudicots_AKK_0002466
  Eudicots_AKB_0038867
                                                       Eudicots_ADL_0033098
   -Eudicots_AKR_0002893
                                                       Eudicots_AKC_0022247
  LEudicots_AKL_0024074
                                                       Eudicots AKB 0038867
    -Eudicots AKQ 0023403
                                                       Eudicots AKA 0009764
  -Eudicots_ADN_0015374
                                                          -Eudicots_AKR_0002893
 Eudicots_AKI_0019898
                                                        -Eudicots_AKL_0024074
                                                         -Eudicots_AKQ_0023403
  -Eudicots_AKG_0001300
  -Eudicots_AHC_0019185
                                                         -Eudicots_ADN_0015374
                                                       Eudicots_AKI_0019898
 -Eudicots_AIO_0028131
 Eudicots_AIN_0004629
                                                       -Eudicots_AKG_0001300
  -Eudicots_AEG_0004275
                                                       -Eudicots_AHC_0019185
 -Eudicots_AZA_0011422
                                                       Eudicots_AIO_0028131
 -Eudicots_AAR_0006523
                                                      Fudicots_AIN_0004629
 Magnoliids AAU 0005998
                                                        -Eudicots_AEG_0004275
 <sup>L</sup>Magnoliids_AIC_0052961
                                                       -Eudicots_AZA_0011422
     -Ceratophyllales_AIA_0006953
                                                       -Eudicots AAR 0006523
basal angiosperms_AKM_0007562
                                                          -Ceratophyllales_AIA_0006953
  rbasal angiosperms_AEV_0022417
                                                        Fbasal angiosperms_AEV_0022417
  basal angiosperms_ADD_0007351
                                                        basal angiosperms ADD 0007351
    -Outgroup_ADK_0011871
                                                          -Outgroup_ADK_0011871
0.871829
                                                     0.805654
```