```
OGs_100107_T1_71_before
                       -Eudicots AKD 0017306
    Eudicots AEG 0007769
 LEudicots_AAS_0010594
 -Monocots_AIJ_0014065
 _Monocots_ADJ_0006461
Monocots_ACP_0024322
     -Monocots AHJ 0013054
                       -Eudicots AKL 0016069
  -Eudicots AKR 0000710
Monocots_AFF_0011241
Monocots_ABF_0031606
-Monocots_AHH_0012994
Eudicots AKC 0000582
Eudicots_AKB_0011978
                      -Eudicots AKA 0011535
Eudicots_AKP_0005881
Eudicots_AKJ_0008457
Eudicots_AHC_0014497
                   Monocots AHE 0037726
                   Monocots_ACG_0001133
Monocots_AEO_0014047
                  [Monocots_AFA_0031329
                  Monocots ABP 0024896
Monocots ACC 0003466
Monocots_AIT_0051725
Monocots_AFD_0002970
Monocots AGK 0040548
Monocots_AKN_0015838
                    -Monocots AKO 0009529
Monocots AAV 0005714
 -Monocots_AEQ_0015680
-Monocots_AAI_0008707
Ceratophyllales_AIA_0002562
                              [Eudicots_AKH_0010412
                              Eudicots AKK 0008679
              Eudicots ADL 0007287
                -Eudicots_AKF_0014913
               -Eudicots_AKQ_0011887
Monocots_ACT_0016674
Monocots_ACU_0007288
Monocots AAB 0007224
Monocots_AEY_0017141
Monocots_AHF_0021918
-Monocots_AEB_0005816
Monocots_AAH_0006156
Monocots_AGD_0032056
                                                    OGs_100107_T1_71_after
-Monocots_ADO_0000538
                                                    <sub>-</sub>basal angiosperms_AKM_0022771
Monocots_AIS_0005461
Monocots_AFT_0010077
Monocots_AIR_0040395
-basal angiosperms_AKM_0022771
                                                     Monocots_AEO_0014047
 —basal angiosperms_AAL_0006046
Magnoliids_AIB_0000192
-Eudicots_ACY_0023005
                                                     Monocots_ACC_0003466
Eudicots_AKG_0005252
                                                     Monocots_AIT_0051725
Eudicots_ADN_0035234
                                                     -Monocots_AFD_0002970
                 -Eudicots_AKI_0009275
                                                    Monocots_AGK_0040548
Eudicots_AGG_0021465
                                                     _Eudicots_AKP_0005881
                                                     Eudicots_AKJ_0008457
      -Magnoliids ABW 0019938
Monocots_AAN_0019402
                                                    Eudicots_AKC_0000582
      -Monocots_AAO_0002994
                  -Monocots_AGJ_0005781
                                                    Eudicots_AHC_0014497
Monocots_ACX_0013511
                                                     -Ceratophyllales_AIA_0002562
Monocots_AEX_0010106
                                                    <sup>l</sup>Magnoliids_AIB_0000192
1.15959
                                                    0.748007
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-basal angiosperms AAL 0006046

Eudicots_AKB_0011978

Monocots_AHE_0037726

Monocots_ACG_0001133

Monocots_AFA_0031329

Monocots_ABP_0024896