```
OGs_100172_T1_60_before
      Fudicots_AGG_0028475
      Eudicots AKI 0036005
       -Ceratophyllales AIA 0017375
      Eudicots AKH 0028275
      Eudicots_AKK_0023422
      Eudicots AIN 0025593
      Eudicots AEG 0021088
      Chloranthales ABV 0010489
     Chloranthales ABU 0005436
      -Magnoliids AEH 0038300
      basal angiosperms AKM 0020053
     -Eudicots_ABE_0020536
     Eudicots_AIO_0022972
     Eudicots_ACY_0031478
     Eudicots AZA 0026181
     FEudicots AAS 0021327
     Eudicots AKA 0027888
     Eudicots ADL 0008631
     Eudicots AKC 0018434
     Eudicots_AKB_0018792
     Eudicots_AKJ_0134541
     Eudicots_AKG_0030296
     Eudicots AKQ 0011016
     Eudicots ADN 0009105
     -Eudicots AHC 0026290
     Magnoliids AAU 0015014
     Magnoliids AIC 0038328
     Eudicots AKF 0015857
     Eudicots AKD 0010879
     -Eudicots_AKL_0016029
     Monocots AKE 0013479
     Monocots AAE 0012909
          -Monocots AKO 0001479
     Monocots AKN 0000585
         -Monocots_AAO_0009029
      -Monocots AAN 0006300
                              -Monocots_AEQ_0000375
         -Monocots AAV 0005302
     Monocots AGJ 0005474
     Monocots ABP 0025518
     Monocots AGW 0006005
     -Monocots ACP 0019735
     Monocots_AIJ_0020308
    Monocots_ACG_0000485
    Monocots_AEY_0015500
    Monocots_AEB_0006271
    Monocots_AHF_0022377
    Monocots AIS 0007616
    Monocots AFT 0015616
             Monocots_AHE_0034016
             Monocots_AEO_0015866
      Monocots AFA 0032135
      Monocots AIT 0048400
 Monocots AAH 0026449
 Monocots AGD 0032773
 Monocots_ADO_0002859
3.62767
```

```
OGs 100172 T1 60 after
    Monocots AAH 0026449
   Monocots_AGD_0032773
   Monocots_ADO_0002859
Magnoliids AAU 0015014
Magnoliids_AIC_0038328
 Eudicots AKH 0028275
\[\textbf{Eudicots_AKK_0023422}\]
-Eudicots_AGG_0028475
 Eudicots_AKI_0036005
Eudicots AIN 0025593
Eudicots AEG 0021088
rbasal angiosperms_AKM_0020053
Chloranthales ABV 0010489
 Chloranthales_ABU_0005436
1.60492
```

Monocots AHE 0034016 Monocots_AEO_0015866

Monocots_AFA_0032135

-Monocots AIT 0048400