```
OGs_100066_T1_55_before
    Monocots_AGJ_0000322
    Monocots_AEO_0009308
    Monocots_ACG_0022842
    <sup>L</sup>Monocots_AHE_0018466
    -Monocots_AFA_0011856
    Monocots_AGW_0033169
    Monocots_ABP_0038116
   Monocots_ABQ_0002333
    Monocots_AIT_0058719
    Monocots_ACC_0022495
   Monocots_ACX_0040480
    Monocots_AEX_0020483
   Monocots_AEY_0033174
                                             OGs_100066_T1_55_after
   -Monocots_AEB_0013603
    -Monocots AHF 0000614
                                                          ─basal angiosperms AEV 0001551
    Monocots_AAH_0017338
                                                           basal angiosperms_ADD_0015973
    Monocots_ADO_0027270
                                                               Outgroup_ADK_0020664
   Monocots_AIR_0030876
                                                                 -Monocots_AGJ_0000322
   -Monocots_AGK_0014761
                                                                  1onocots_AEO_0009308
   Monocots_AFD_0013433
                                                                Monocots_ACG_0022842
   Monocots_ADV_0010777
                                                                 -Monocots AHE 0018466
  Monocots_AAO_0023542
                                                                -Monocots_AFA_0011856
                                                              rMonocots_AGW_0033169
                       -Monocots_AAN_0000669
     Monocots_AKN_0015097
                                                              Monocots_ABP_0038116
     Monocots_AKO_0013677
                                                               -Monocots_ABQ_0002333
    -Monocots AAV 0003443
                                                              -Monocots_AIT_0058719
    -Monocots_AHJ_0000314
                                                               -Monocots_ACC_0022495
  Monocots_ACT_0001724
                                                              Monocots_ACX_0040480
                                                               -Monocots_AEX_0020483
  Monocots_ACU_0001725
  Monocots_AKE_0005676
                                                               -Monocots_AEY_0033174
  Monocots AAE 0008462
                                                                Monocots AEB 0013603
    -Monocots_AHH_0007483
                                                                -Monocots AHF 0000614
                                                               -Monocots_AAH_0017338
   Chloranthales_ABU_0030210
   Chloranthales_ABV_0016386
                                                               -Monocots_ADO_0027270
   Magnoliids_ABX_0015391
                                                             -Monocots_AIR_0030876
   Magnoliids_ABW_0009831
                                                             Monocots_AGK_0014761
   Magnoliids_AIB_0002997
                                                            -Monocots_AFD_0013433
    -Magnoliids_ABS_0015509
                                                           -Monocots_ADV_0010777
 Magnoliids AID 0001065
                                                                    Monocots_AKN_0015097
 Magnoliids_AEH_0008299
                                                                     Monocots_AKO_0013677
 Ceratophyllales AIA 0015204
                                                        -Monocots_AAO_0023542
   -Eudicots_ABE_0009725
                                                                 -Monocots_AAV_0003443
Eudicots AIN 0001708
                                                                -Monocots AHJ 0000314
Eudicots AEG 0019580
                                                      -Monocots_ACT_0001724
                                                      Monocots_ACU_0001725
-Eudicots_AIO_0012857
-Monocots_AEQ_0010196
                                                         Chloranthales_ABU_0030210
                       -Monocots AIH 0066016
                                                         Chloranthales ABV 0016386
                                                         Magnoliids_AIB_0002997
-Monocots_AFF_0008679
  -basal angiosperms_AAL_0000715
                                                         Magnoliids_ABW_0009831
   -Outgroup_ADK_0020664
                                                                   -Magnoliids_ABS_0015509
  basal angiosperms_AEV_0001551
                                                   −Magnoliids_AID_0001065
  basal angiosperms_ADD_0015973
                                                   -Magnoliids_AEH_0008299
-Eudicots AAR 0005984
                                               Ceratophyllales_AIA_0015204
-Eudicots ACY 0004642
                                                    -Eudicots_AAR_0005984
basal angiosperms_AKM_0006555
                                                   Eudicots_ACY_0004642
0.783301
                                             0. 159283
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