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Monocots_AGJ_0011312
   Monocots_AEO_0035690
   Monocots_ACG_0036590
  Monocots_AHE_0008409
  Monocots AFA 0015944
  Monocots_AGW_0004132
  Monocots_ABP_0062728
  Monocots_AEX_0024942
  Monocots_ACX_0045092
  Monocots_ACC_0033671
   Monocots_ABQ_0024721
  Monocots_AIT_0007246
  Monocots_AAH_0021429
  Monocots AGD 0010020
  Monocots_ADO_0008217
                                            OGs_100065_T1_53_after
  Monocots_AFT_0007220
  Monocots_AIS_0014609
                                                          -Eudicots AKL 0013578
  Monocots_AIR_0006098
                                                                -Eudicots AKR 0014610
                                                -Eudicots_AKD_0027128
  Monocots_AEB_0011512
  Monocots_AEY_0005761
                                                      Monocots_AGJ_0011312
  Monocots AHF 0018744
                                                      Monocots_AEO_0035690
  Monocots AFD 0014223
                                                      -Monocots ACG 0036590
  Monocots_AGK_0028143
                                                      Monocots_AHE_0008409
  Monocots AAO 0003171
                                                      -Monocots_AFA_0015944
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  Monocots_ACP_0021040
                                                      Monocots_ABP_0062728
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                                                     FMonocots_ACC_0033671
  Monocots_AIJ_0007262
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  Monocots_ABF_0040251
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  Monocots_AEQ_0026255
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  -Monocots_AHJ_0012856
                                                      Monocots_ADO_0008217
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  Monocots_AKE_0018408
                                                    Monocots_AIS_0014609
  -Eudicots_AKF_0009237
                                                     -Monocots_AIR_0006098
  basal angiosperms_AEV_0008135
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                                                     Monocots_AEY_0005761
  basal angiosperms_ADD_0013975
  FEudicots AKL 0013578
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                                                     -Monocots_AFD_0014223
  -Eudicots_AKR_0014610
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  -Eudicots_AKP_0000972
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  FMonocots_ACT_0017012
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  Monocots_AKO_0016009
  Monocots_AKN_0021141
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                                                       -Monocots AHJ 0012856
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  Outgroup_ADK_0023971
                                                   Monocots_AKE_0018408
  -basal angiosperms_AKM_0028348
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  Magnoliids_AIC_0041437
                                                    -Magnoliids_AAU_0005923
  Magnoliids AAU 0005923
                                                               -basal angiosperms_AAL_0008549
   -Eudicots_AAS_0023098
                                                                    Outgroup ADK 0023971
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3. 22354
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OGs_100065_T1_53_before