OGs\_100003\_T1\_48\_before Monocots\_AEO\_0046917 Monocots\_ACG\_0018580 Monocots\_AHE\_0001369 Monocots\_AFA\_0022186 OGs 100003 T1 48 after Monocots AGW 0022925 Monocots ABP 0048323 Monocots AEO 0046917 Monocots ACG 0018580 Monocots ABQ 0017017 Monocots ACC 0038329 -Monocots AHE 0001369 Monocots\_ACX\_0028535 -Monocots\_AFA\_0022186 -Monocots\_AIT\_0025317 —Monocots\_AGW\_0022925 Monocots\_ADO\_0018825 -Monocots\_ABP\_0048323 Monocots\_AAH\_0026700 -Monocots\_ABQ\_0017017 Monocots\_AGD\_0026700 \_Monocots\_ACC\_0038329 Monocots AIR 0023004 Monocots\_ACX\_0028535 Monocots AIS 0002430 -Monocots ADO 0018825 Monocots AFT 0001765 Monocots\_AAH\_0026700 Monocots\_AEY\_0013148 Monocots\_AGD\_0026700 Monocots\_AHF\_0027881 -Monocots\_AIR\_0023004 \_Monocots\_AIS\_0002430 Monocots\_AFD\_0024217 -Monocots AFT 0001765 Monocots AGK 0004667 -Monocots\_AEY\_0013148 Monocots ADV 0017093 Monocots\_AKN\_0010637 -Monocots AHF 0027881 Monocots AKO 0008003 -Monocots AFD 0024217 Monocots\_AAO\_0012228 Monocots\_AGK\_0004667 -Monocots\_AAN\_0003278 -Monocots\_ADV\_0017093 Monocots\_AFF\_0034979 rMonocots\_AKN\_0010637 Monocots AKO 0008003 Monocots ABF 0040245 -Monocots AAO 0012228 Monocots AEQ 0000575 -Monocots AFF 0034979 Monocots AIH 0093301 Monocots\_ADJ\_0007231 -Monocots ABF 0040245 Monocots\_ACP\_0016789 -Monocots AIH 0093301 Monocots AIJ 0020838 -Monocots ADJ 0007231 -Monocots\_AAV\_0011170 -Monocots\_ACP\_0016789 Monocots\_ACT\_0016045 -Monocots\_AIJ\_0020838 Monocots\_ACU\_0018241 -Monocots\_AAV\_0011170 Monocots\_AAB\_0007453 Monocots\_ACT\_0016045 <sup>L</sup>Monocots\_ACU\_0018241 -Monocots AHH 0014522 -Eudicots AKF 0016349 -Monocots AAB 0007453 Monocots\_AHJ\_0019181 Eudicots\_AKD\_0008750 -Monocots AHH 0014522 \_Monocots\_AAE\_0001235 Monocots\_AAE\_0001235 LMonocots AKE 0014261 Monocots AKE 0014261 -Monocots AHJ 0019181 Magnoliids\_AEH\_0020460 -Magnoliids\_AEH\_0020460 Magnoliids AID 0008886 -Magnoliids AID 0008886 basal angiosperms AEV 0017062 —basal angiosperms AEV 0017062 -basal angiosperms\_ADD\_0037730 basal angiosperms ADD 0037730 basal angiosperms AAL 0008629 -basal angiosperms AAL 0008629 basal angiosperms\_AKM\_0028334 -basal angiosperms\_AKM\_0028334 2.87053 0.22238