G2825\_GTRGAMMA\_ML\_tree Papi\_Tibetia\_himalaica\_1023149 Papi\_Tibetia\_himalaica\_1023150 8<u>6</u> Papi\_Tibetia\_himalaica\_1023152 6<u>4</u> -Papi\_Tibetia\_himalaica\_1023155 ·Papi\_Tibetia\_himalaica\_1023154 Papi\_Tibetia\_himalaica\_1023153 60 9<u>5</u> Papi\_Tibetia\_himalaica\_1023151 Papi\_Colutea\_arborescens\_1034821 Papi\_Colutea\_arborescens\_1034820 97 9<u>6</u> Papi\_Astragalus\_lentiginosus\_1007881 Papi\_v.faba\_CSFL\_reftransV2\_0024019 Papi\_Psat4g036360.1 Papi\_Medtr4g115530.3 ·Papi\_Tp57577\_TGAC\_v2\_mRNA7886 9<u>5</u> Papi\_Glycyrrhiza\_uralensis\_1016427 Papi\_Glycyrrhiza\_uralensis\_1016428 Papi\_Wisteriopsis\_reticulata\_1024730 Papi\_Lj0g3v0342139.3 9<u>4</u> Papi\_Lj0g3v0342139.1 Papi\_Lj0g3v0342139.2 Papi\_Hippocrepis\_comosa\_1036866 Papi\_Hippocrepis\_comosa\_1036867 Papi\_Apios.68384 46 ·Papi\_Apios.68390 49 Papi\_Apios.68394 9<u>5</u> Papi\_Apios.68386 Papi\_Cajanus\_020237198.1 Papi\_Cajanus\_020237197.1 Papi\_Glyma.17G110100.1 Papi\_Otholobium\_arborescens\_1018834 Papi\_Phvul.003G169800.1 7<u>0</u> Papi\_Spatholobus\_suberectus\_1021477 9<u>5</u> Papi\_Spatholobus\_suberectus\_1021474 ·Papi\_Canavalia\_gladiata\_1001324 98 Papi\_Aganope\_thyrsiflora\_1029785 Papi\_Aganope\_thyrsiflora\_1038602 Papi\_Austrosteenisia\_blackii\_1005328 Papi\_Austrosteenisia\_blackii\_1016664 Papi\_Hypocalyptus\_sophoroides\_1020193 Papi\_Hypocalyptus\_sophoroides\_1020192 Papi\_Bolusanthus\_speciosus\_1013845 Papi\_Bolusanthus\_speciosus\_1013846 85 7<u>1</u> Papi\_Genista\_sagittalis\_1011730 Papi\_Genista\_sagittalis\_1011731 Papi\_Myroxylon\_toluiferum\_1027473 Papi\_Myroxylon\_toluiferum\_1027471 Papi\_Myroxylon\_toluiferum\_1027475 Papi\_Myroxylon\_toluiferum\_1027474 94 Papi\_Cladrastis\_platycarpa\_1007229 Papi\_Cladrastis\_platycarpa\_1007227 -Papi\_Cladrastis\_platycarpa\_1007228 Papi\_Araip.51VIE.1 Papi\_Aradu.YH2KM.1 -Papi\_Marina\_parryi\_1028294 9<u>6</u> Papi\_Marina\_parryi\_1028290 96 5<u>0</u> -Papi\_Marina\_parryi\_1028295 -Papi\_Marina\_parryi\_1028289 Papi\_Marina\_parryi\_1028293 Papi\_Marina\_parryi\_1028291 Papi\_Lup006989.1 -Caes\_Umtiza\_listeriana\_1019724 9<u>8</u> Caes\_Umtiza\_listeriana\_1019722 Caes\_Umtiza\_listeriana\_1019723 Caes\_Umtiza\_listeriana\_1019721 9<u>2</u> Caes\_Umtiza\_listeriana\_1019720 Caes\_Umtiza\_listeriana\_1019718 Caes\_Gleditsia\_japonica\_1000712 67 97 Caes\_Gleditsia\_japonica\_1000713 Caes\_Ceratonia\_siliqua\_1014882 9<u>2</u> Caes\_Ceratonia\_siliqua\_1014883 Caes\_Ceratonia\_siliqua\_1014884 5<u>6</u> ·Dial\_Poeppigia\_procera\_Ge\_1007063 93 Cerc\_Bauhpu.DN26191\_c0\_g2\_i1 46 Dial\_Poeppigia\_procera\_Ge\_1010379 Deta\_Colophospermum\_mopane\_1035572 Deta\_Brachystegia\_spiciformis\_1027106 Cerc\_Bauhpu.DN4522 Cerc\_Adenolobus\_garipensis\_1009169 Cerc\_Cheniella\_corymbosa\_1011074 Cerc\_Cergi.GAOK01063977.1 Cerc\_Cerca759S04614frag\_CERCA Papi\_Otholobium\_arborescens\_1009910 Papi\_Otholobium\_arborescens\_1009909 Papi\_Cullen\_corylifolia\_1004914 Papi\_Cullen\_corylifolia\_1004913 -Papi\_Cullen\_corylifolia\_1004912 97 -Papi\_Otholobium\_arborescens\_1028765 9<u>6</u> Papi\_Otholobium\_arborescens\_1042158 Papi\_Glyma.17G110300.1 ·Papi\_Otholobium\_arborescens\_1028758 91 Papi\_Otholobium\_arborescens\_1028756 Papi\_Otholobium\_arborescens\_1028757 7<u>6</u> 90 Papi\_Glyma.13G161100.3 Papi\_Phvul.003G169700.1 Papi\_Spatholobus\_suberectus\_1029152 Papi\_Cajanus\_020237206.1 93 Papi\_Cajanus\_020237205.1 9<u>9</u> 94 Papi\_Cajanus\_020237207.1 Papi\_Apios.57638 Papi\_Apios.57637 Papi\_Aganope\_thyrsiflora\_1006367 └-Papi\_Aganope\_thyrsiflora\_1006368 98 -Papi\_Austrosteenisia\_blackii\_1016662 Papi\_Austrosteenisia\_blackii\_1016663 -Papi\_Otholobium\_arborescens\_1028764 8<u>0</u> -Papi\_Otholobium\_arborescens\_1028763 -Papi\_Otholobium\_arborescens\_1028759 Papi\_Otholobium\_arborescens\_1028761 Papi\_Otholobium\_arborescens\_1028760 Papi\_Glyma.17G110200.1 -Papi\_Glyma.13G161200.1 Papi\_Apios.89779 Papi\_Apios.89783 8<u>7</u> Papi\_Apios.89782 97 84 Papi\_Apios.89780 Papi\_Cajanus\_020237208.1 Papi\_Canavalia\_gladiata\_1019667 7<u>9</u> 9<u>0</u> Papi\_Canavalia\_gladiata\_1019668 Papi\_Marina\_parryi\_1003247 Papi\_Marina\_parryi\_1028297 99 Papi\_Castanospermum\_australe\_1054206 -Papi\_Castanospermum\_australe\_1053853 Papi\_Castanospermum\_australe\_1002105 Papi\_Lj4g3v1893080.1 Papi\_Lj4g3v1893080.2 98 9<u>7</u> Papi\_Lj4g3v1893080.3 -Papi\_Lj0g3v0081769.1 Papi\_Tp57577\_TGAC\_v2\_mRNA7885 Papi\_Medtr4g115540.1 Papi\_Psat0s679g0040.1 85 9<u>6</u> ·Dial\_Poeppigia\_procera\_Ge\_1002370 Papi\_Glyma.13G161400.1 5<u>8</u> Papi\_Glyma.17G110000.2 Papi\_Phvul.003G169900.1 Papi\_Cajanus\_029130887.1 4<u>8</u> Papi\_Cajanus\_020237178.2 7<u>6</u> Papi\_Apios.68385 -Papi\_Lj0g3v0200699.1 93 -Dial\_Poeppigia\_procera\_Ge\_1002645 -Papi\_Nissc524665S27551\_NISSC Papi\_Cytisus\_filipes\_1032359 Papi\_Bolusanthus\_speciosus\_1012075 Dial\_Poeppigia\_procera\_Ge\_1005252 Vita\_VIT\_211s0118g00170.1 Papi\_Glyma.13G161000.3 Papi\_Cullen\_corylifolia\_1042628 -Papi\_Glyma.17G110500.4 Papi\_Apios.178884 Papi\_Phvul.003G169600.1 Papi\_Vradi07g20590.1 Papi\_Cajanus\_029130885.1 9<u>9</u> Papi\_Cajanus\_020237193.1 —Papi\_Cajanus\_029130884.1 72 Papi\_Apios.8184 9<u>8</u> Papi\_Aganope\_thyrsiflora\_1034354 Papi\_Psat4g036400.1 Papi\_Medtr4g115460.1 Papi\_Ca\_06706 Papi\_Lup006991.1 9<u>5</u> Papi\_Lup006990.3 -Papi\_Aganope\_thyrsiflora\_1040235 9<u>6</u> -Papi\_Hypocalyptus\_sophoroides\_1059115 -Papi\_Hypocalyptus\_sophoroides\_1052332 -Papi\_Dipteryx\_odorata\_1048426 97 Papi\_Cladrastis\_platycarpa\_1002630 Papi\_Araip.Y0VZU.1 ·Papi\_Aradu.TN13P.1 Papi\_Nissc524665S27552\_NISSC ·Cerc\_Bauhpu.DN18807\_c0\_g1\_i4 Cerc\_Bauhpu.DN18807\_c0\_g1\_i3 Cerc\_Bauhpu.DN18807 Cerc\_Cheniella\_corymbosa\_1001042 Cerc\_Cheniella\_corymbosa\_1051285 Cerc\_Cheniella\_corymbosa\_1024360 Cerc\_Cheniella\_corymbosa\_1024359 ·Cerc\_Cheniella\_corymbosa\_1024361 8<u>6</u> ·Cerc\_Cheniella\_corymbosa\_1024362 -Caes\_Prosopis\_028922402.1 -Caes\_Prosopis\_028898122.1 Caes\_Prosopis\_028898121.1 9<u>6</u> Caes\_Mimpu10676S13431\_MIMPU Caes\_Mimpu1241S14690\_MIMPU Caes\_Senegalia\_rugata\_1046350 86 Caes\_Chafa522S23938\_CHAFA Caes\_Gleditsia\_japonica\_1029072 9<u>4</u> Caes\_Prosopis\_028904949.1 Caes\_Mimpu5119S25157\_MIMPU 90 Deta\_Colophospermum\_mopane\_1005629 Dial\_Poeppigia\_procera\_Ge\_1019626 Jugl\_Juglans\_regia\_1025026 9<u>5</u> Jugl\_Juglans\_regia\_1025027 95 Noth\_Nothofagus\_antarctica\_1027027 Jugl\_Juglans\_regia\_1008553 92 ·Cerc\_Bauhpu.DN26191\_c0\_g2\_i4 6<u>7</u> Caes\_Prosopis\_028943340.1 Caes\_Mimpu3814S23295\_MIMPU 7<u>7</u> ·Dial\_Poeppigia\_procera\_Ge\_1016573 8<u>5</u> Dial\_Poeppigia\_procera\_Ge\_1021816 Vita\_VIT\_204s0008g05720.1 94 Vita\_VIT\_211s0118g00020.1 Vita\_VIT\_211s0118g00060.1 92 Vita\_VIT\_211s0118g00030.1

Vita\_VIT\_211s0118g00070.1