Tree scale: $1 \vdash$ OmcS-like tree BM506 sp002868945 PKTX01000004.1 149 - Desulfofervidus auxilii NZ CP013015.1 1699 B60-G16 sp003647275 QMMN01000033.1 27 Thermodesulfatator atlanticus NZ ATXH01000008.1 79 Thermodesulfatator autotrophicus NZ LSFI01000021.1 38 BMS3Abin13 sp002897615 BDTX01000022.1 29 B23-G16 sp003647435 RLB88510.1 XYD12-FULL-50-9 sp001799225 MGTA01000181.1 18 JABXJX01 sp013375375 NVL90088.1 UBA3076 sp003194495 PQXE01000022.1 29 DG-60 sp001304365 LJNA01000034.1 2 Seep-SRB1g sp. AB 1215 Bin 34 MBW2644910.1 Thrichloromonas sp001825565 MHXM01000037.1 1 QYQD01 sp007280345 QYQD01000006.1 16 HotSeep1 B50 IEOPGEAI 01871 FWG172 EthSRB1 EOKBJDCF 00132 Seep-SRB1a sp CR9063A Ga0402054 bin3 1202 Seep-SRB1a sp CR9063C Ga0402062 bin2 642 Seep-SRB1a sp. 8 str. AB 03 Bin 172 MBW2740277.1 Seep-SRB1a sp SM7059A Ga0402080 bin2 1793 Seep-SRB1a sp. 1 str. 013792055 MBA3017003.1 FWG171 EthSRB1 DHEMDEKC 00275 Seep-SRB1a sp. 9 str. Meg22 46 Bin 236 MBW1744893.1 Seep-SRB1a sp. 3 str. 014237365 MBC2718332.1 Desulfurivibrio alkaliphilus NC 014216.1 403 Seep-SRB1a sp. 1 str. 013792055 MBA3018895.1 Seep-SRB1g sp. AB 1215 Bin 34 MBW2645947.1 B60-G16 sp003647275 RLB81298.1 B60-G16 sp003647275 QMMN01000042.1 13 JABXJX01 sp013375375 NVL90176.1 JABXJX01 sp013375375 NVL90177.1 Seep-SRB2 sp. 8 str. Meg22 46 Bin 87 MBW1670219.1 Seep-SRB2 sp. 8 str. Meg22 810 Bin 10 MBW1719427.1 Seep-SRB2 sp. 8 str. Meg22 1012 Bin 335 MBW2080373.1 SURF-16 sp003605035 QZKJ01000102.1 9 DB1 sp001914235 MQUF01000003.1 320 Malonomonas rubra NZ FQZT01000001.1 508 UBA10518 sp003604995 QZJD01000099.1 12 BMS3Abin13 sp002897615 BDTX01000025.1 57 BM506 sp002868945 PKTX01000032.1 6 - UBA2262 sp002841785 PHAW01000033.1 12 UBA2262 sp002347095 DDWZ01000015.1 15 UBA2262 sp002841785 PHAW01000123.1 3 UBA2262 sp002347095 DDWZ01000011.1 146 Seep-SRB1a sp. 1 str. 013792055 MBA3019442.1 FWG155 Desulfofervidaceae OLHCEBFO 00110 FWG170 HotSeep1 BEFNOMPG 00035 FWG156 DesulfofervidalesDG60 GNPDEHDO 01262 HotSeep1 E50 CAD7772344.1 HotSeep1 AMM40456.1 Seep-SRB2 sp. 1 str. Meg22 1214 Bin 80 MBW1966293.1 Seep-SRB2 sp. 8 str. Meg22 810 Bin 10 MBW1718507.1 Seep-SRB2 sp. 8 str. Meg22 46 Bin 87 MBW1670313.1 [†]Seep-SRB2 sp. 8 str. Meg22 1012 Bin 335 MBW2080122.1 B60-G16 sp003647275 RLB81583.1 NA091.008 bin6 HotSeep1 GLOGJPLJ 00696 Seep-SRB2 sp. 1 str. G37 PXF54082.1 Thermodesulfobacterium hydrogeniphilum NZ JQKW01000006.1 218 Thermodesulfobacterium hydrogeniphilum NZ JQKW01000006.1 229 SURF-16 sp003605035 QZKJ01000086.1 34 DB1 sp001914235 MQUF01000012.1 37 Thermodesulfatator indicus NC 015681.1 1799 Thermodesulfatator atlanticus NZ ATXH01000008.18 Thermodesulfatator atlanticus NZ ATXH01000008.1 17 Thermodesulfatator indicus NC 015681.1 1808 Thermodesulfatator autotrophicus NZ LSEI01000021 1 12 FWG155 Desulfofervidaceae OLHCEBFO 00965 Seep-SRB2 sp. 8 str. Meg22 810 Bin 10 MBW1718519.1 Seep-SRB2 sp. 8 str. Meg22 1618 Bin 149 MBW1937372.1 ^{[9}Seep-SRB2 sp. 8 str. Meg22 46 Bin 87 MBW1670752.1 Desulfuromonas sp001751155 MAXR01000068.1 4 Desulfuromonas sp002869685 PKUE01000040.1 30 Desulfuromonas acetoxidans NZ AAEW02000005.1 125 BM509 sp002868865 PKUC01000004.1 3 Geoalkalibacter A subterraneus NZ CP010311.1 2680 Malonomonas rubra A QKAP01000018.1 3 Thrichloromonas sp001825565 MHXM01000112.1 3 Thrichloromonas sp002423365 DIVU01000151.1 10 Thrichloromonas acetexigens NZ FOJJ01000034.1 114 Dissulfurirhabdus thermomarina ASM1297923v1 WP 163297691.1 BMS3Abin13 sp002897615 BDTX01000022.1 11 BM509 sp002868865 PKUC01000027.1 2 Desulfuromonas sp002869685 PKUE01000040.1 34 Desulfuromonas acetoxidans NZ AAEW02000005.1 129 BM506 sp002868945 PKTX01000006.1 54 Malonomonas rubra NZ FQZT01000001.1 340 Geoalkalibacter A subterraneus NZ CP010311.1 2685 Malonomonas rubra A QKAP01000146.1 2 Desulfurivibrio alkaliphilus NC 014216.1 761 UBA2262 sp002841785 PHAW01000123.1 4 - UBA2262 sp002347095 DDWZ01000011.1 145 UBA10518 sp003604995 QZJD01000004.1 13 YD12-FULL-57-12 sp001799275 MGTE01000010.1 6 YD12-FULL-57-12 sp001799275 MGTE01000010.1 16 Desulfurivibrio alkaliphilus NC 014216.1 752 UBA5123 sp002414225 DHYV01000011.1 59 DB1 sp001914235 MQUF01000012.1 46 SURF-16 sp003605035 QZKJ01000086.1 25 SURF-16 sp003249165 QKJV01000034.1 2 Dissulfurirhabdus thermomarina ASM1297923v1 WP 163297681.1 Seep-SRB2 sp. 4 str. E20 PXF57827.1 Seep-SRB2 sp. 3 str. 002367355 DFBQ01000012.1 29 BM506 sp002868945 PKTX01000006.1 64 UBA2262 sp002841785 PHAW01000014.1 8 UBA2262 sp002347095 DDWZ01000011.1 156 Thermodesulfatator autotrophicus NZ LSFI01000021.1 29 UBA5123 sp002414225 DHYV01000024.1 191 Thrichloromonas sp001825565 MHXM01000026.1 20 XYD12-FULL-50-9 sp001799225 MGTA01000201.1 3 XYD12-FULL-50-9 sp001799225 MGTA01000189.1 5 UBA5123 sp002415465 DHYT01000103.1 9 UBA5123 sp002414225 DHYV01000057.1 8 FWG170 HotSeep1 BEFNOMPG 00962 BM506 sp002868945 PKTX01000017.1 16 BM506 sp002868945 PKTX01000082.1 8 SURF-16 sp003605035 QZKJ01000053.1 30 DB1 sp001914235 MQUF01000011.1 43 Desulfuromonas sp002869685 PKUE01000055.1 2 Desulfuromonas acetoxidans NZ AAEW02000015.1 16 Dissulfurirhabdus thermomarina ASM1297923v1 WP 163298398.1 Dissulfurirhabdus thermomarina ASM1297923v1 WP 169755672.1 Dissulfurirhabdus thermomarina ASM1297923v1 WP 163297690.1 HotSeep1 B50 IEOPGEAI 01870 UBA5123 sp002414225 DHYV01000024.1 263 Desulfuromonas sp002869685 PKUE01000017.1 13 Desulfuromonas acetoxidans NZ AAEW02000002.1 101 SURF-16 sp003605035 QZKJ01000089.1 9 Thrichloromonas sp002423365 DIVU01000151.1 7 Thrichloromonas acetexigens NZ FOJJ01000034.1 118 Geoalkalibacter A subterraneus NZ CP010311.1 2683 Geoalkalibacter A subterraneus NZ CP010311.1 2684 Malonomonas rubra A QKAP01000146.1 1 Malonomonas rubra NZ FQZT01000001.1 338 Malonomonas rubra NZ FQZT01000001.1 529 YD12-FULL-57-12 sp001799275 MGTE01000089.1 18 Desulfurivibrio alkaliphilus NC 014216.1 393 ATBO01 sp000472285 NZ KI421412.1 300 FWG155 Desulfofervidaceae OLHCEBFO 02029 Seep-SRB2 sp. 1 str. Meg22 1214 Bin 80 MBW1966921.1 FWG170 HotSeep1 BEFNOMPG 00005 HotSeep1 E37 CAD7779962.1 HotSeep1 B50 IEOPGEAI 00084 B60-G16 sp003647275 RLB81299.1 NA091.008 bin6 HotSeep1 GLOGJPLJ 00709 HotSeep1 E37 CAD7772977.1 - HotSeep1 B50 IEOPGEAI 00598 PHotSeep1 E50 CAD7771694.1 [™]HotSeep1 AMM40351.1 FWG155 Desulfofervidaceae OLHCEBFO 00111 NA091.008 bin6 HotSeep1 GLOGJPLJ 00695 HotSeep1 AMM39976.1 - HotSeep1 B50 IEOPGEAI 01187 FWG170 HotSeep1 BEFNOMPG 01027 HotSeep1 E37 CAD7770680.1 Seep-SRB1g sp. AB 1215 Bin 34 MBW2644913.1 JABXJX01 sp013375375 NVL90089.1 UBA6814 sp002452635 DKEU01000061.1 4 Desulfovibrio Q ferrophilus NZ AP017378.1 461 B60-G16 sp003647275 RLB80586.1 B60-G16 sp003647275 QMMN01000070.1 3 JABXJX01 sp013375375 NVL90093.1 Thermodesulfatator indicus NC 015681.1 1798 Seep-SRB2 sp. 8 str. Meg22 810 Bin 10 MBW1718506.1 Seep-SRB2 sp. 1 str. Meg22 1214 Bin 80 MBW1966292.1 Seep-SRB2 sp. 1 str. G37 PXF54081.1 FWG170 HotSeep1 BEFNOMPG 00034 FWG170 HotSeep1 BEFNOMPG 00960 Seep-SRB2 sp. 1 str. Meg22 1214 Bin 80 MBW1966866.1 Seep-SRB2 sp. 1 str. G37 PXF54099.1 HotSeep1 B50 IEOPGEAI 01873 - HotSeep1 E37 CAD7773764.1 HotSeep1 AMM40455.1 - HotSeep1 E50 CAD7772338.1 Seep-SRB1a sp. 3 str. 014237365 MBC2720289.1 FWG172 EthSRB1 EOKBJDCF 00460 Seep-SRB1g sp CR10073B Ga0402030 bin2 1062 Seep-SRB1g str. C00003106 OEU55753.1 Seep-SRB1g sp CR10073A Ga0402010 bin2 636 Eth-SRB1 sp019313565 MBW2569726.1 Eth-SRB1 sp019314185 MBW2662106.1 Seep-SRB1a sp. 8 str. AB 03 Bin 172 MBW2737807.1 Seep-SRB1a sp. 9 str. Meg22 46 Bin 236 MBW1745083.1 Seep-SRB1a sp. 9 str. Meg22 02 Bin 90 MBW2164566.1 Eth-SRB1 sp019313565 MBW2570538.1 Seep-SRB1a sp. 5 str. S7142MS3 Ga0402080 bin2 576 - Seep-SRB1a sp. 8 str. AB 03 Bin 172 MBW2742589.1 JABXJX01 sp013375375 NVL90081.1 FWG171 EthSRB1 DHEMDEKC 01188 FWG171 EthSRB1 DHEMDEKC 01187 Seep-SRB1a sp. 8 str. AB 03 Bin 172 MBW2738521.1 Seep-SRB1a sp. 5 str. 20074 SRB HOAHELHK 01073 Seep-SRB1a sp. 5 str. S7142MS3 Ga0402080 bin2 566 Seep-SRB1a sp. 5 str. S7142MS3 MBT9438435.1 Seep-SRB1a sp. 8 str. AB 03 Bin 172 MBW2739754.1 Seep-SRB1g sp CR10073B Ga0402030 bin2 1610 Seep-SRB1g sp CR10073A Ga0402010 bin2 1720 Seep-SRB1g str. C00003104 OEU59130.1 C00003106 sp001751015 MAXM01000079.1 6 Seep-SRB2 sp. 5 str. 003645605 RKX59500.1 Seep-SRB1a sp. 8 str. AB 03 Bin 172 MBW2737721.1 Seep-SRB1a sp. 8 str. AB 03 Bin 172 MBW2739713.1 Seep-SRB1a sp CR9063A Ga0402054 bin3 1846 Seep-SRB1a sp CR9063C Ga0402062 bin2 2242 Seep-SRB2 sp. 3 str. 002367355 DFBQ01000012.1 33 Seep-SRB2 sp. 3 str. 002367355 DFBQ01000209.1 13 Eth-SRB1 sp019313565 MBW2570105.1 Seep-SRB1a sp. 8 str. AB 03 Bin 172 MBW2738715.1 Seep-SRB1a sp. 6 str. 003647525 QMMZ01000050.1 3 Seep-SRB1a sp. 9 str. Meg22 46 Bin 236 MBW1746352.1 Seep-SRB1a sp CR9063A Ga0402054 bin3 2261 Seep-SRB1a sp CR9063B Ga0402057 bin2 1362 Seep-SRB1a sp CR9063C Ga0402062 bin2 2724