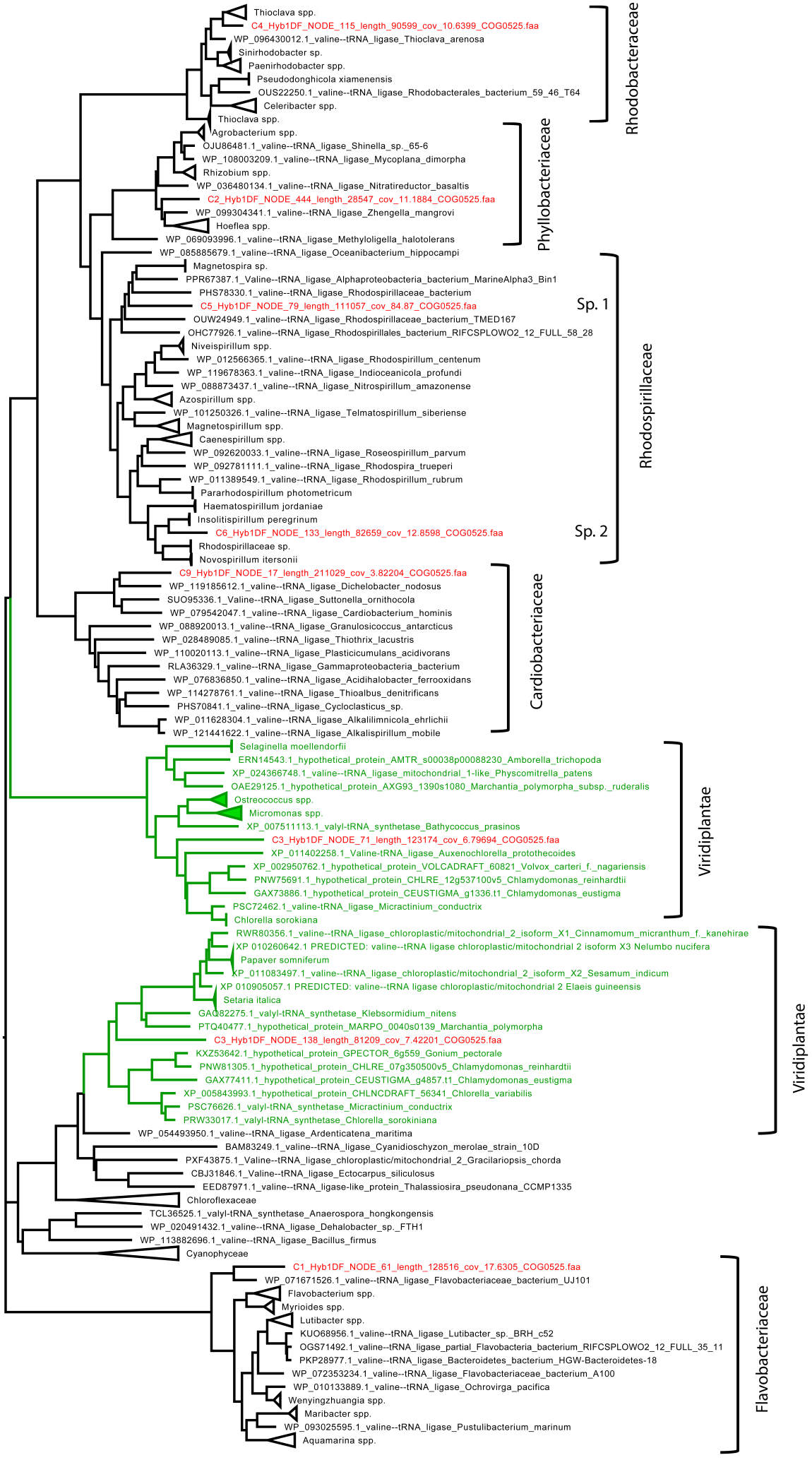
Thioclava spp.
C4_Hyb1DF_NODE_115_length_90599_cov_10.6399_COG0525.faa
WP_096430012.1_valine--tRNA_ligase_Thioclava_arenosa
Sinirhodobacter sp.
Paenirhodobacter spp.
Pseudodonghicola xiamenensis
OUS22250.1_valine--tRNA_ligase_Rhodobacterales_bacterium_59_46_T64
Celeribacter spp.
Thioclava spp.
Rhodobacteraceae
Agrobacterium spp.
OJU86481.1_valine--tRNA_ligase_Shinella_sp._65-6
WP_108003209.1_valine--tRNA_ligase_Mycoplana_dimorpha
Rhizobium spp.
WP_036480134.1_valine--tRNA_ligase_Nitratireductor_basaltis
C2_Hyb1DF_NODE_444_length_28547_cov_11.1884_COG0525.faa
WP_099304341.1_valine--tRNA_ligase_Zhengella_mangrovi
Hoeflea spp.
WP_069093996.1_valine--tRNA_ligase_Methyloligella_halotolerans
Phyllobacteriaceae
WP_085885679.1_valine--tRNA_ligase_Oceanibacterium_hippocampi
Magnetospira sp.
PPR67387.1_Valine--tRNA_ligase_Alphaproteobacteria_bacterium_MarineAlpha3_Bin1
PHS78330.1_valine--tRNA_ligase_Rhodospirillaceae_bacterium
C5_Hyb1DF_NODE_79_length_111057_cov_84.87_COG0525.faa
Sp. 1
OUW24949.1_valine--tRNA_ligase_Rhodospirillaceae_bacterium_TMED167
OHC77926.1_valine--tRNA_ligase_Rhodospirillales_bacterium_RIFCSPLOWO2_12_FULL_58_28
Niveispirillum spp.
WP_012566365.1_valine--tRNA_ligase_Rhodospirillum_centenum
WP_119678363.1_valine--tRNA_ligase_Indioceanicola_profundi
WP_088873437.1_valine--tRNA_ligase_Nitrospirillum_amazonense
Azospirillum spp.
WP_101250326.1_valine--tRNA_ligase_Telmatospirillum_siberiense
Magnetospirillum spp.
Caenespirillum spp.
WP_092620033.1_valine--tRNA_ligase_Roseospirillum_parvum
WP_092781111.1_valine--tRNA_ligase_Rhodospira_trueperi
WP_011389549.1_valine--tRNA_ligase_Rhodospirillum_rubrum
Pararhodospirillum photometricum
Haematospirillum jordaniae
Insolitispirillum peregrinum
C6_Hyb1DF_NODE_133_length_82659_cov_12.8598_COG0525.faa
Sp. 2
Rhodospirillaceae sp.
Novospirillum itersonii
Rhodospirillaceae
C9_Hyb1DF_NODE_17_length_211029_cov_3.82204_COG0525.faa
WP_119185612.1_valine--tRNA_ligase_Dichelobacter_nodosus
SUO95336.1_Valine--tRNA_ligase_Suttonella_ornithocola
WP_079542047.1_valine--tRNA_ligase_Cardiobacterium_hominis
WP_088920013.1_valine--tRNA_ligase_Granulosicoccus_antarcticus
WP_028489085.1_valine--tRNA_ligase_Thiothrix_lacustris
WP_110020113.1_valine--tRNA_ligase_Plasticicumulans_acidivorans
RLA36329.1_valine--tRNA_ligase_Gammaproteobacteria_bacterium
WP_076836850.1_valine--tRNA_ligase_Acidihalobacter_ferrooxidans
WP_114278761.1_valine--tRNA_ligase_Thioalbus_denitrificans
PHS70841.1_valine--tRNA_ligase_Cycloclasticus_sp.
WP_011628304.1_valine--tRNA_ligase_Alkalilimnicola_ehrlichii
WP_121441622.1_valine--tRNA_ligase_Alkalispirillum_mobile
Cardiobacteriaceae
Selaginella moellendorfii
ERN14543.1_hypothetical_protein_AMTR_s00038p00088230_Amborella_trichopoda
XP_024366748.1_valine--tRNA_ligase_mitochondrial_1-like_Physcomitrella_patens
OAE29125.1_hypothetical_protein_AXG93_1390s1080_Marchantia_polymorpha_subsp._ruderalis
Ostreococcus spp.
Micromonas spp.
XP_007511113.1_valyl-tRNA_synthetase_Bathycoccus_prasinos
C3_Hyb1DF_NODE_71_length_123174_cov_6.79694_COG0525.faa
XP_011402258.1_Valine-tRNA_ligase_Auxenochlorella_protothecoides
XP_002950762.1_hypothetical_protein_VOLCADRAFT_60821_Volvox_carteri_f._nagariensis
PNW75691.1_hypothetical_protein_CHLRE_12g537100v5_Chlamydomonas_reinhardtii
GAX73886.1_hypothetical_protein_CEUSTIGMA_g1336.t1_Chlamydomonas_eustigma
PSC72462.1_valine-tRNA_ligase_Micractinium_conductrix
Chlorella sorokiana
Viridiplantae
RWR80356.1_valine--tRNA_ligase_chloroplastic/mitochondrial_2_isoform_X1_Cinnamomum_micranthum_f._kanehirae
XP 010260642.1 PREDICTED: valine--tRNA ligase chloroplastic/mitochondrial 2 isoform X3 Nelumbo nucifera
Papaver somniferum
XP_011083497.1_valine--tRNA_ligase_chloroplastic/mitochondrial_2_isoform_X2_Sesamum_indicum
XP 010905057.1 PREDICTED: valine--tRNA ligase chloroplastic/mitochondrial 2 Elaeis guineensis
Setaria italica
GAQ82275.1_valyl-tRNA_synthetase_Klebsormidium_nitens
PTQ40477.1_hypothetical_protein_MARPO_0040s0139_Marchantia_polymorpha
C3_Hyb1DF_NODE_138_length_81209_cov_7.42201_COG0525.faa
KXZ53642.1_hypothetical_protein_GPECTOR_6g559_Gonium_pectorale
PNW81305.1_hypothetical_protein_CHLRE_07g350500v5_Chlamydomonas_reinhardtii
GAX77411.1_hypothetical_protein_CEUSTIGMA_g4857.t1_Chlamydomonas_eustigma
XP_005843993.1_hypothetical_protein_CHLNCDRAFT_56341_Chlorella_variabilis
PSC76626.1_valyl-tRNA_synthetase_Micractinium_conductrix
PRW33017.1_valyl-tRNA_synthetase_Chlorella_sorokiniana
Viridiplantae
WP_054493950.1_valine--tRNA_ligase_Ardenticatena_maritima
BAM83249.1_valine--tRNA_ligase_Cyanidioschyzon_merolae_strain_10D
PXF43875.1_Valine--tRNA_ligase_chloroplastic/mitochondrial_2_Gracilariopsis_chorda
CBJ31846.1_Valine--tRNA_ligase_Ectocarpus_siliculosus
EED87971.1_valine--tRNA_ligase-like_protein_Thalassiosira_pseudonana_CCMP1335
Chloroflexaceae
TCL36525.1_valyl-tRNA_synthetase_Anaerospora_hongkongensis
WP_020491432.1_valine--tRNA_ligase_Dehalobacter_sp._FTH1
WP_113882696.1_valine--tRNA_ligase_Bacillus_firmus
Cyanophyceae
C1_Hyb1DF_NODE_61_length_128516_cov_17.6305_COG0525.faa
WP_071671526.1_valine--tRNA_ligase_Flavobacteriaceae_bacterium_UJ101
Flavobacterium spp.
Myrioides spp.
Lutibacter spp.
KUO68956.1_valine--tRNA_ligase_Lutibacter_sp._BRH_c52
OGS71492.1_valine--tRNA_ligase_partial_Flavobacteria_bacterium_RIFCSPLOWO2_12_FULL_35_11
PKP28977.1_valine--tRNA_ligase_Bacteroidetes_bacterium_HGW-Bacteroidetes-18
WP_072353234.1_valine--tRNA_ligase_Flavobacteriaceae_bacterium_A100
WP_010133889.1_valine--tRNA_ligase_Ochrovirga_pacifica
Wenyingzhuangia spp.
Maribacter spp.
WP_093025595.1_valine--tRNA_ligase_Pustulibacterium_marinum
Aquamarina spp.
Flavobacteriaceae
0.2