

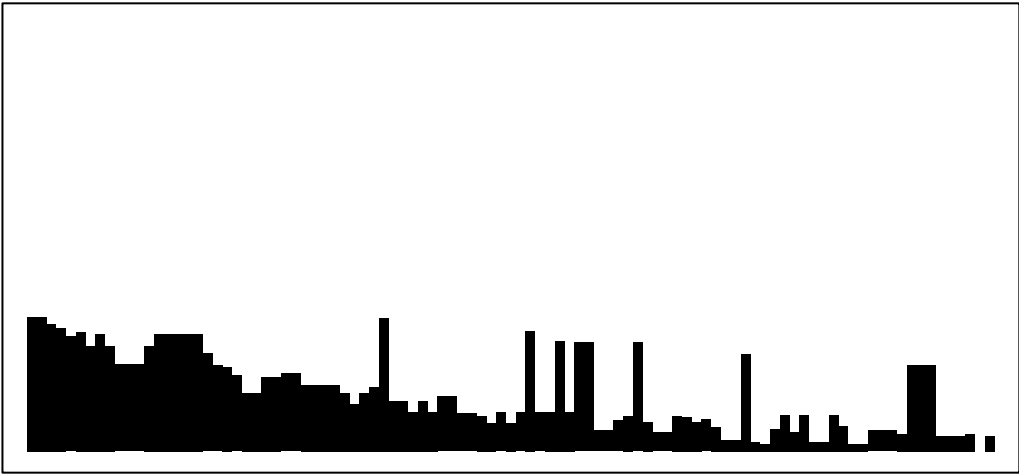
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Rhodoplanes sp. Z2–YC6860

Hyphomicrobiaceae

Rhizobiales

86.3



Rhodoplanes sp. Z2–YC6860, complete genome	CP007440	86.3	96.9	6.33607e–66	Rhizobiales	Hyphomicrobiaceae	Rhodoplanes sp. Z2–YC6860
Rhodopseudomonas palustris HaA2, complete genome	CP000250	86.3	96.9	6.33607e–66	Rhizobiales	Bradyrhizobiaceae	Rhodopseudomonas palustris HaA2
Variibacter gotjawalensis DNA, complete genome	AP014946	85.97	97.79	2.21151e–65	Rhizobiales	Bradyrhizobiaceae	Variibacter gotjawalensis
Bradyrhizobium diazoefficiens DNA, complete genome	AP014685	85.78	96.46	9.40356e–64	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium diazoefficiens
Bradyrhizobium sp. G22 genome assembly, chromosome	LN907826	85.39	96.9	3.28217e–63	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium sp.
Rhodopseudomonas palustris BisB18, complete genome	CP000301	85.58	95.13	3.9985e–62	Rhizobiales	Bradyrhizobiaceae	Rhodopseudomonas palustris BisB18
Bradyrhizobium sp. BF49 genome assembly, chromosom	LN901633	84.93	96.9	1.39561e–61	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium sp.
Bradyrhizobium diazoefficiens USDA 110, complete g	CP011360	85.51	94.69	1.39561e–61	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium diazoefficiens USDA 110
Bradyrhizobium sp. CCGE–LA001, complete genome	CP013949	84.93	96.9	1.39561e–61	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium sp. CCGE–LA001
Sphingopyxis macrogoltabida strain EY–1, complete	CP012700	84.07	100	1.39561e–61	Sphingomonadales	Sphingomonadaceae	Sphingopyxis macrogoltabida
Sphingomonas taxi strain ATCC 55669, complete geno	CP009571	84.07	100	1.39561e–61	Sphingomonadales	Sphingomonadaceae	Sphingomonas taxi
Sphingomonas sp. NX–3 cytochrome c oxidase subunit	KF999931	84.07	100	1.39561e–61	Sphingomonadales	Sphingomonadaceae	Sphingomonas sp. NX–3
Rhodopseudomonas palustris BisB5, complete genome	CP000283	84.93	96.9	1.39561e–61	Rhizobiales	Bradyrhizobiaceae	Rhodopseudomonas palustris BisB5
Bradyrhizobium japonicum USDA 110 DNA, complete ge	BA000040	85.51	94.69	1.39561e–61	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium diazoefficiens USDA 110
Bradyrhizobium japonicum putative epoxide hydrolas	U33883	85.51	94.69	1.39561e–61	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium japonicum
Bradyrhizobium japonicum coxB, coxA, coxE, coxF, c	AJ242592	85.51	94.69	1.39561e–61	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium japonicum
B.japonicum coxA gene for cytochrome aa(3) subunit	X54318	85.51	94.69	1.39561e–61	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium japonicum
B.japonicum coxA gene for subunit I of cytochrome	X54800	85.51	94.69	1.39561e–61	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium japonicum
Bradyrhizobium sp. S23321 DNA, complete genome	AP012279	84.58	94.69	7.22945e–59	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium sp. S23321
Bradyrhizobium sp. ORS278,complete sequence	CU234118	84.02	96.9	7.22945e–59	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium sp. ORS 278
Rhodopseudomonas palustris BisA53, complete genome	CP000463	83.94	96.46	2.52333e–58	Rhizobiales	Bradyrhizobiaceae	Rhodopseudomonas palustris BisA53
Bradyrhizobium oligotrophicum S58 DNA, complete ge	AP012603	83.56	96.9	8.80727e–58	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium oligotrophicum S58
Uncultured zooplankton clone 22_277 cytochrome c o	KC732316	82.74	100	3.07404e–57			zooplankton environmental sample
Sphingomonas sp. MM–1, complete genome	CP004036	82.74	100	3.07404e–57	Sphingomonadales	Sphingomonadaceae	Sphingomonas sp. MM–1
Rhodopseudomonas palustris DX–1, complete genome	CP002418	83.49	96.46	3.07404e–57	Rhizobiales	Bradyrhizobiaceae	Rhodopseudomonas palustris DX–1
N.winogradskyi DNA for coxA, coxB and coxC genes	X89566	83.49	96.46	3.07404e–57	Rhizobiales	Bradyrhizobiaceae	Nitrobacter winogradskyi
Bradyrhizobium japonicum strain E109, complete gen	CP010313	83.64	94.69	3.74495e–56	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium japonicum
Bradyrhizobium japonicum USDA 6 DNA, complete geno	AP012206	83.64	94.69	3.74495e–56	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium japonicum USDA 6
Oligotropha carboxidovorans OM5, complete genome	CP002826	83.11	96.9	3.74495e–56	Rhizobiales	Bradyrhizobiaceae	Oligotropha carboxidovorans OM5
Oligotropha carboxidovorans OM4, complete genome	CP002821	83.11	96.9	3.74495e–56	Rhizobiales	Bradyrhizobiaceae	Oligotropha carboxidovorans OM4
Oligotropha carboxidovorans OM5 strain OM5, comple	CP001196	83.11	96.9	3.74495e–56	Rhizobiales	Bradyrhizobiaceae	Oligotropha carboxidovorans OM5
Bradyrhizobium sp. BTAi1, complete genome	CP000494	83.11	96.9	3.74495e–56	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium sp. BTAi1
Mesorhizobium loti NZP2037, complete genome	CP016079	82.73	97.35	1.30712e–55	Rhizobiales	Phyllobacteriaceae	Mesorhizobium loti NZP2037
Citromicrobium sp. JL477, complete genome	CP011344	82.22	99.56	1.30712e–55	Sphingomonadales	Sphingomonadaceae	Citromicrobium sp. JL477
Mesorhizobium huakuii 7653R genome	CP006581	82.73	97.35	1.30712e–55	Rhizobiales	Phyllobacteriaceae	Mesorhizobium huakuii 7653R
Nitrobacter winogradskyi Nb–255, complete genome	CP000115	83.03	96.46	1.30712e–55	Rhizobiales	Bradyrhizobiaceae	Nitrobacter winogradskyi Nb–255
Bradyrhizobium japonicum SEMIA 5079 genome	CP007569	86.24	83.63	4.56228e–55	Rhizobiales	Bradyrhizobiaceae	Bradyrhizobium japonicum SEMIA 5079
Sphingopyxis granuli strain TFA, complete genome	CP012199	82.35	97.79	1.59239e–54	Sphingomonadales	Sphingomonadaceae	Sphingopyxis granuli
Polymorphum gilvum SL003B–26A1, complete genome	CP002568	82.35	97.79	1.59239e–54			Polymorphum gilvum SL003B–26A1
Methylobacterium nodulans ORS 2060, complete genom	CP001349	81.86	100	1.59239e–54	Rhizobiales	Methylobacteriaceae	Methylobacterium nodulans ORS 2060
Parvibaculum lavamentivorans DS–1, complete genome	CP000774	82.35	97.79	1.59239e–54	Rhizobiales	Rhodobiaceae	Parvibaculum lavamentivorans DS–1
Sphingomonas wittichii RW1, complete genome	CP000699	81.86	100	1.59239e–54	Sphingomonadales	Sphingomonadaceae	Sphingomonas wittichii RW1
Nitrobacter hamburgensis X14, complete genome	CP000319	82.57	96.46	1.59239e–54	Rhizobiales	Bradyrhizobiaceae	Nitrobacter hamburgensis X14
Rhodopseudomonas palustris CGA009 complete genome;	BX572595	82.57	96.46	1.59239e–54	Rhizobiales	Bradyrhizobiaceae	Rhodopseudomonas palustris CGA009
Sphingopyxis fribergensis strain Kp5.2, complete g	CP009122	81.78	99.56	5.558e–54	Sphingomonadales	Sphingomonadaceae	Sphingopyxis fribergensis
Methylobacterium sp. 4–46, complete genome	CP000943	81.78	99.56	5.558e–54	Rhizobiales	Methylobacteriaceae	Methylobacterium sp. 4–46
Croceicoccus naphthovorans strain PQ–2, complete g	CP011770	81.66	99.56	6.77102e–53	Sphingomonadales	Erythrobacteraceae	Croceicoccus naphthovorans
Sphingomonas sp. WHSC–8, complete genome	CP010836	81.33	99.56	6.77102e–53	Sphingomonadales	Sphingomonadaceae	Sphingomonas hengshuiensis
PREDICTED: Pantholops hodgsonii cytochrome c oxida	XM_005977034	81.82	97.35	6.77102e–53			Pantholops hodgsonii
PREDICTED: Pantholops hodgsonii cytochrome c oxida	XM_005971211	81.33	99.56	6.77102e–53			Pantholops hodgsonii
Mesorhizobium australicum WSM2073, complete genome	CP003358	81.82	97.35	6.77102e–53	Rhizobiales	Phyllobacteriaceae	Mesorhizobium australicum WSM2073
Rhizobium leguminosarum bv. trifolii WSM2304, comp	CP001191	85.64	83.19	6.77102e–53	Rhizobiales	Rhizobiaceae	Rhizobium leguminosarum bv. trifolii WSM2304
Mesorhizobium loti MAFF303099 DNA, complete genome	BA000012	81.82	97.35	6.77102e–53	Rhizobiales	Phyllobacteriaceae	Mesorhizobium loti MAFF303099
Sphingobium baderi strain DE–13, complete genome	CP013264	81.86	99.56	2.36332e–52	Sphingomonadales	Sphingomonadaceae	Sphingobium baderi
Methylocystis sp. SC2 complete genome	HE956757	85.19	83.63	2.36332e–52	Sphingomonadales	Methylocystaceae	Methylocystis sp. SC2
Sphingopyxis alaskensis RB2256, complete genome	CP000356	81.86	99.56	2.36332e–52	Sphingomonadales	Sphingomonadaceae	Sphingopyxis alaskensis RB2256
Rhizobium phaseoli strain N831, complete genome	CP013563	85.11	83.19	8.2488e–52	Rhizobiales	Rhizobiaceae	Rhizobium phaseoli
Rhizobium phaseoli strain N931, complete genome	CP013552	85.11	83.19	8.2488e–52	Rhizobiales	Rhizobiaceae	Rhizobium phaseoli
Sphingobium sp. EP60837 chromosome 1, complete seq	CP015986	80.97	100	8.2488e–52	Sphingomonadales	Sphingomonadaceae	Sphingobium sp. EP60837
Methylobacterium aquaticum plasmid pMaq22A_1p DNA,	AP014705	80.97	100	8.2488e–52	Rhizobiales	Methylobacteriaceae	Methylobacterium aquaticum
Hyphomicrobium nitrativorans NL23, complete genome	CP006912	81.45	97.79	8.2488e–52	Rhizobiales	Hyphomicrobiaceae	Hyphomicrobium nitrativorans NL23
Mesorhizobium opportunistum WSM2075, complete geno	CP002279	81.65	96.46	8.2488e–52	Rhizobiales	Phyllobacteriaceae	Mesorhizobium opportunistum WSM2075
Rhizobium etli CIAT 652, complete genome	CP001074	85.11	83.19	8.2488e–52	Rhizobiales	Rhizobiaceae	Rhizobium etli CIAT 652
Caulobacter henricii strain CB4, complete genome	CP013002	81.36	97.35	2.87911e–51	Caulobacterales	Caulobacteraceae	Caulobacter henricii
Methylobacterium oryzae CBMB20, complete genome	CP003811	80.89	99.56	2.87911e–51	Rhizobiales	Methylobacteriaceae	Methylobacterium oryzae CBMB20
Sphingobium sp. SYK–6 DNA, complete genome	AP012222	80.89	99.56	2.87911e–51	Sphingomonadales	Sphingomonadaceae	Sphingobium sp. SYK–6
Hyphomicrobium sp. MC1 chromosome, complete genome	FQ859181	81.65	95.13	2.87911e–51	Rhizobiales	Hyphomicrobiaceae	Hyphomicrobium sp. MC1
Azospirillum sp. B510 DNA, complete genome	AP010946	81.61	97.35	2.87911e–51	Rhodospirillales	Rhodospirillaceae	Azospirillum sp. B510
Caulobacter sp. K31, complete genome	CP000927	81.36	97.35	2.87911e–51	Caulobacterales	Caulobacteraceae	Caulobacter sp. K31
Altererythrobacter epoxidivorans strain CGMCC 1.77	CP012669	81.5	99.56	1.00491e–50	Sphingomonadales	Erythrobacteraceae	Altererythrobacter epoxidivorans
Chelatococcus sp. CO–6, complete genome	CP012398	81.14	99.56	1.00491e–50	Rhizobiales	Beijerinckiaceae	Chelatococcus sp. CO–6
Sphingomonas sanxanigenens NX02, complete genome	CP006644	80.53	100	1.00491e–50	Sphingomonadales	Sphingomonadaceae	Sphingomonas sanxanigenens DSM 19645 = NX02
Methylobacterium radiotolerans JCM 2831, complete	CP001001	80.53	100	1.00491e–50	Rhizobiales	Methylobacteriaceae	Methylobacterium radiotolerans JCM 2831
Rhizobium leguminosarum strain Vaf10, complete gen	CP016286	84.57	83.19	3.50748e–50	Rhizobiales	Rhizobiaceae	Rhizobium leguminosarum
Porphyrobacter neustonensis strain DSM 9434, compl	CP016033	80.44	99.56	3.50748e–50	Sphingomonadales	Erythrobacteraceae	Porphyrobacter neustonensis
Methylobacterium populi DNA, complete genome	AP014809	80.35	100	3.50748e–50	Rhizobiales	Methylobacteriaceae	Methylobacterium populi
Sphingopyxis terrae NBRC 15098 strain 203–1, compl	CP013342	81.06	100	3.50748e–50	Sphingomonadales	Sphingomonadaceae	Sphingopyxis terrae NBRC 15098
Sphingopyxis macrogoltabida strain 203N, complete	CP013344	81.69	94.25	3.50748e–50	Sphingomonadales	Sphingomonadaceae	Sphingopyxis macrogoltabida
Aminobacter aminovorans strain KCTC 2477, complete	CP015005	80.91	97.35	3.50748e–50	Rhizobiales	Phyllobacteriaceae	Aminobacter aminovorans
Sphingopyxis macrogoltabida strain 203, complete g	CP009429	81.69	94.25	3.50748e–50	Sphingomonadales	Sphingomonadaceae	Sphingopyxis macrogoltabida
Sphingopyxis sp. 113P3, complete genome	CP009452	80.44	99.56	3.50748e–50	Sphingomonadales	Sphingomonadaceae	Sphingopyxis sp. 113P3
Altererythrobacter marenensis strain KCTC 22370, com	CP011805	80.44	99.56	3.50748e–50	Sphingomonadales	Erythrobacteraceae	Altererythrobacter marenensis
Sphingobium sp. YBL2, complete genome	CP010954	81.69	94.25	3.50748e–50	Sphingomonadales	Sphingomonadaceae	Sphingobium sp. YBL2
Mesorhizobium ciceri biovar biserrulae WSM1271, co	CP002447	81.19	96.46	3.50748e–50	Rhizobiales	Phyllobacteriaceae	Mesorhizobium ciceri biovar biserrulae WSM1271
Methylobacterium extorquens AM1, complete genome	CP001510	80.35	100	3.50748e–50	Rhizobiales	Methylobacteriaceae	Methylobacterium extorquens AM1
Methylobacterium extorquens PA1, complete genome	CP000908	80.35	100	3.50748e–50	Rhizobiales	Methylobacteriaceae	Methylobacterium extorquens PA1
Sphingorhabdus sp. M41, complete genome	CP014545	80.97	99.56	1.22423e–49	Sphingomonadales	Sphingomonadaceae	Sphingorhabdus sp. M41
Sphingobium sp. TKS chromosome 1, complete sequenc	CP005083	80.97	99.56	1.22423e–49	Sphingomonadales	Sphingomonadaceae	Sphingobium sp. TKS
Sphingobium sp. M1205 chromosome 1, complete sequ	CP005188	80.97	99.56	1.22423e–49	Sphingomonadales	Sphingomonadaceae	Sphingobium sp. M1205
R.leguminosarum coxA gene	X74341	80.82	96.9	1.22423e–49	Rhizobiales	Rhizobiaceae	Rhizobium leguminosarum
Rhizobium phaseoli strain N161, complete genome	CP013585	84.04	83.19	4.27298e–49	Rhizobiales	Rhizobiaceae	Rhizobium phaseoli
Rhizobium sp. N1314, complete genome	CP013511	84.04	83.19	4.27298e–49	Rhizobiales	Rhizobiaceae	Rhizobium sp. N1314
Rhizobium sp. N731, complete genome	CP013601	84.04	83.19	4.27298e–49	Rhizobiales	Rhizobiaceae	Rhizobium sp. N731
Mesorhizobium ciceri biovar biserrulae strain WSM1	CP015064	80.73	96.46	4.27298e–49	Rhizobiales	Phyllobacteriaceae	Mesorhizobium ciceri biovar biserrulae
Mesorhizobium ciceri strain CC1192, complete genom	CP015062	80.73	96.46	4.27298e–49	Rhizobiales	Phyllobacteriaceae	Mesorhizobium ciceri
Neorhizobium galegae, complete genome	HG938353	80.73	96.46	4.27298e–49	Rhizobiales	Rhizobiaceae	Neorhizobium galegae bv. orientalis str. HAMBI 540
Hyphomicrobium denitrificans ATCC 51888, complete	CP002083	80.82	95.58	4.27298e–49	Rhizobiales	Hyphomicrobiaceae	Hyphomicrobium denitrificans ATCC 51888
Methylobacterium extorquens DM4 str. DM4 chromosom	FP103042	79.91	100	4.27298e–49	Rhizobiales	Methylobacteriaceae	Methylobacterium extorquens DM4
Rhodopseudomonas palustris TIE–1, complete genome	CP001096	80.73	96.46	4.27298e–49	Rhizobiales	Bradyrhizobiaceae	Rhodopseudomonas palustris TIE–1
Methylobacterium populi BJ001, complete genome	CP001029	79.91	100	4.27298e–49	Rhizobiales	Methylobacteriaceae	Methylobacterium populi BJ001