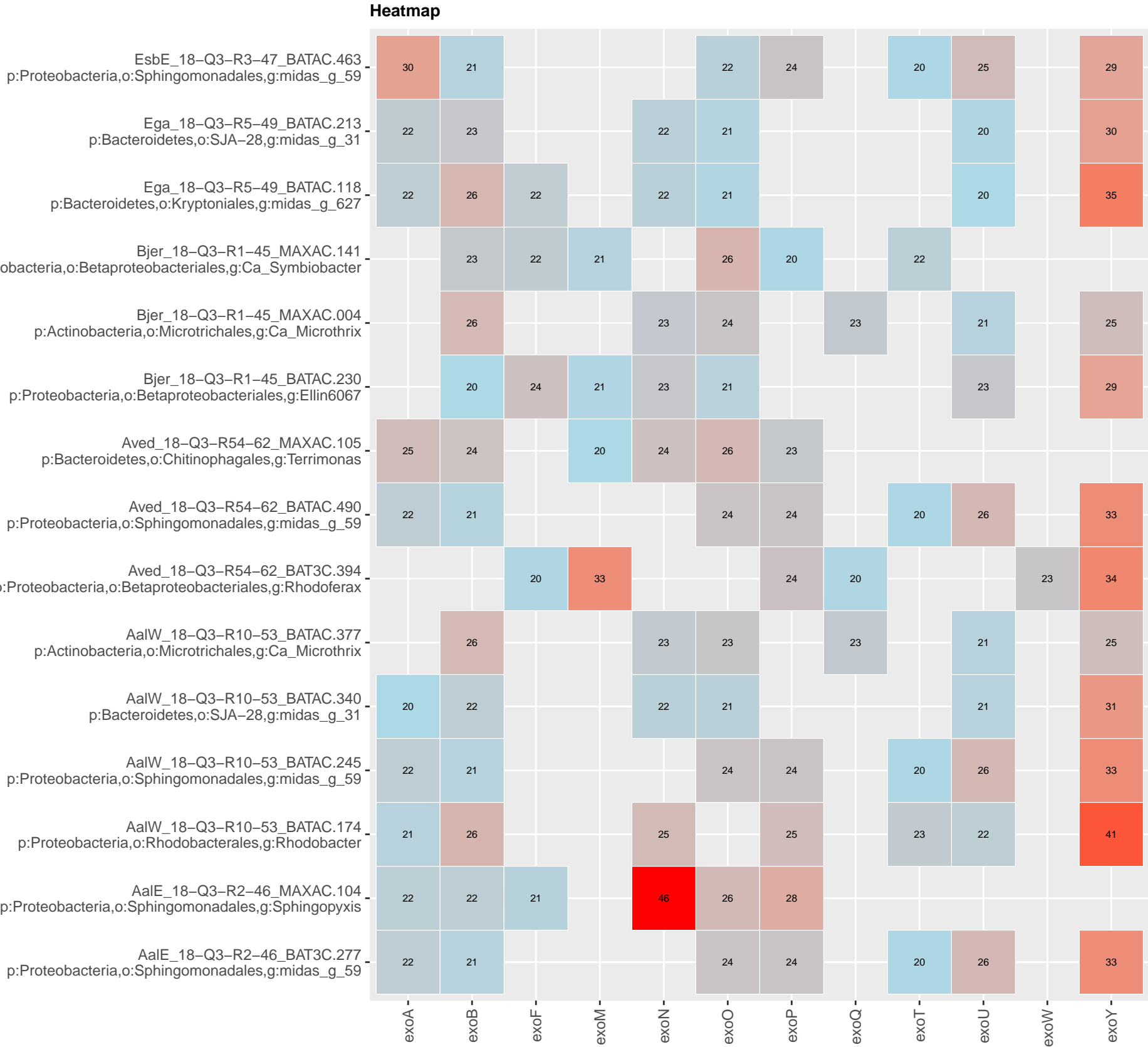
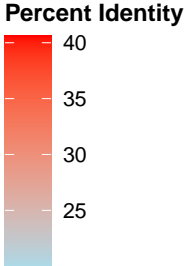
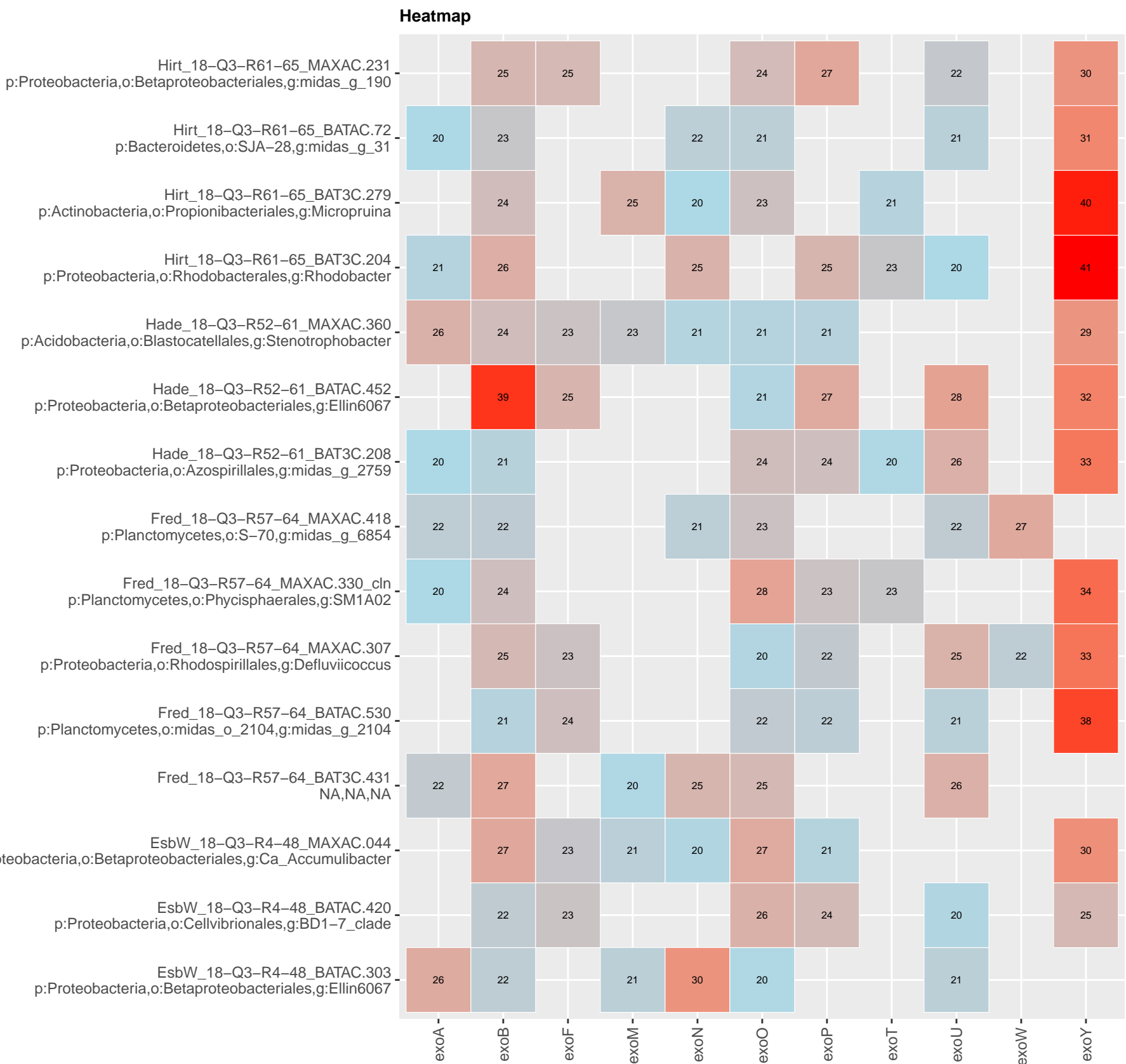
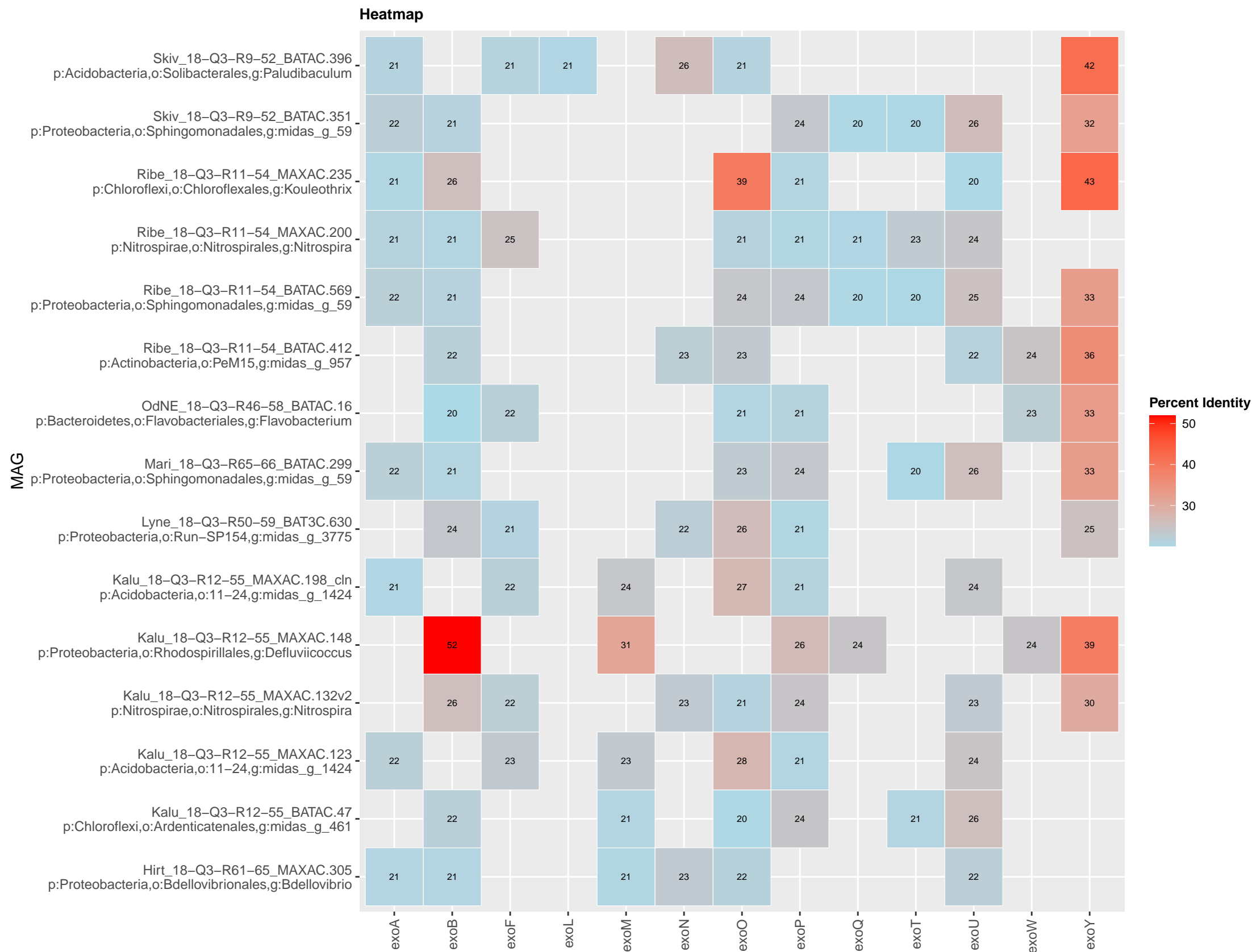


MAG



MAG





Heatmap

MAG

Viby_18-Q3-R106-67_MAXAC.089
p:Proteobacteria,o:Myxococcales,g:Anaeromyxobacter

Viby_18-Q3-R106-67_BAT3C.52
p:Actinobacteria,o:Microtrichales,g:Ca_Microthrix

Viby_18-Q3-R106-67_BAT3C.260
p:Acidobacteria,o:Holophagales,g:midas_g_201

Vibo_18-Q3-R45-57_MAXAC.177
p:Bacteroidetes,o:Chitinophagales,g:Terrimonas

Vibo_18-Q3-R45-57_BATAC.199
p:Proteobacteria,o:Betaproteobacteriales,g:Propionivibrio

Skiv_18-Q3-R9-52_MAXAC.174
p:Chloroflexi,o:Anaerolineales,g:Ca_Villigracilis

exoA

exoB

exoF

exoM

exoN

exoO

exoP

exoQ

exoU

exoY

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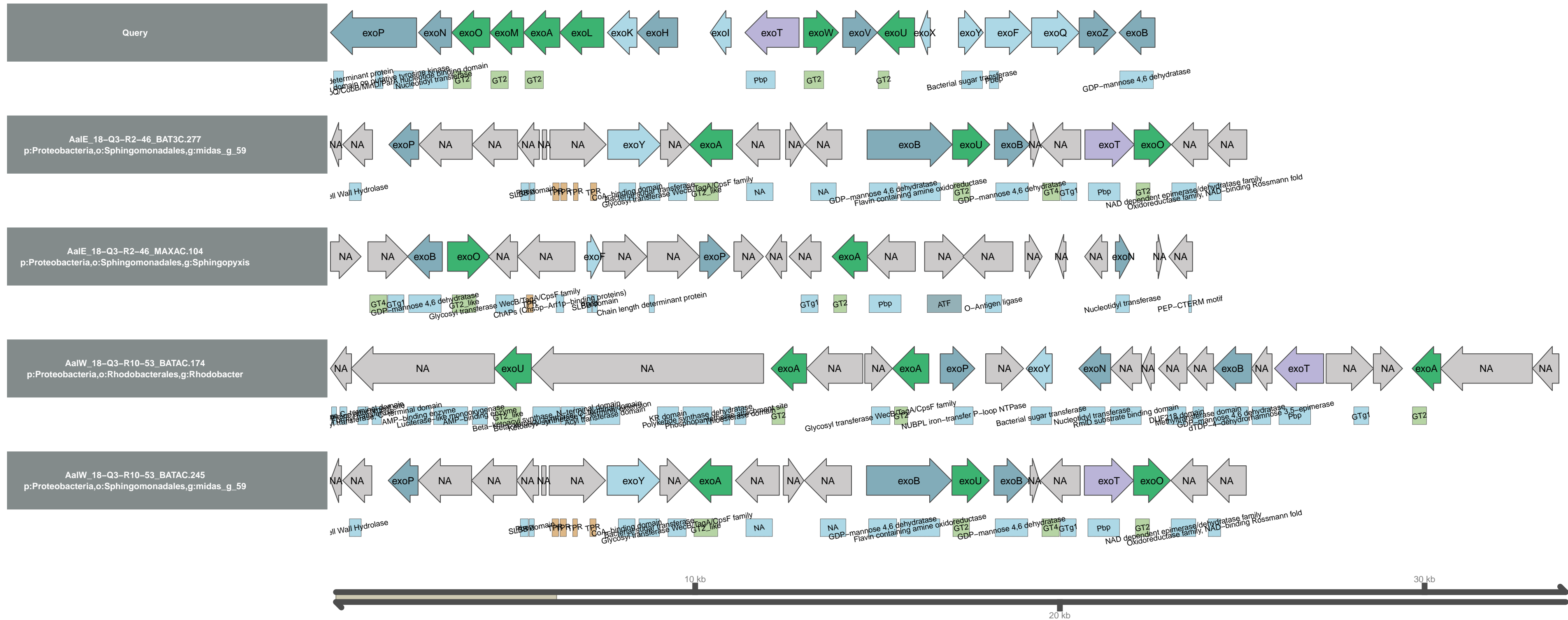
Percent Identity

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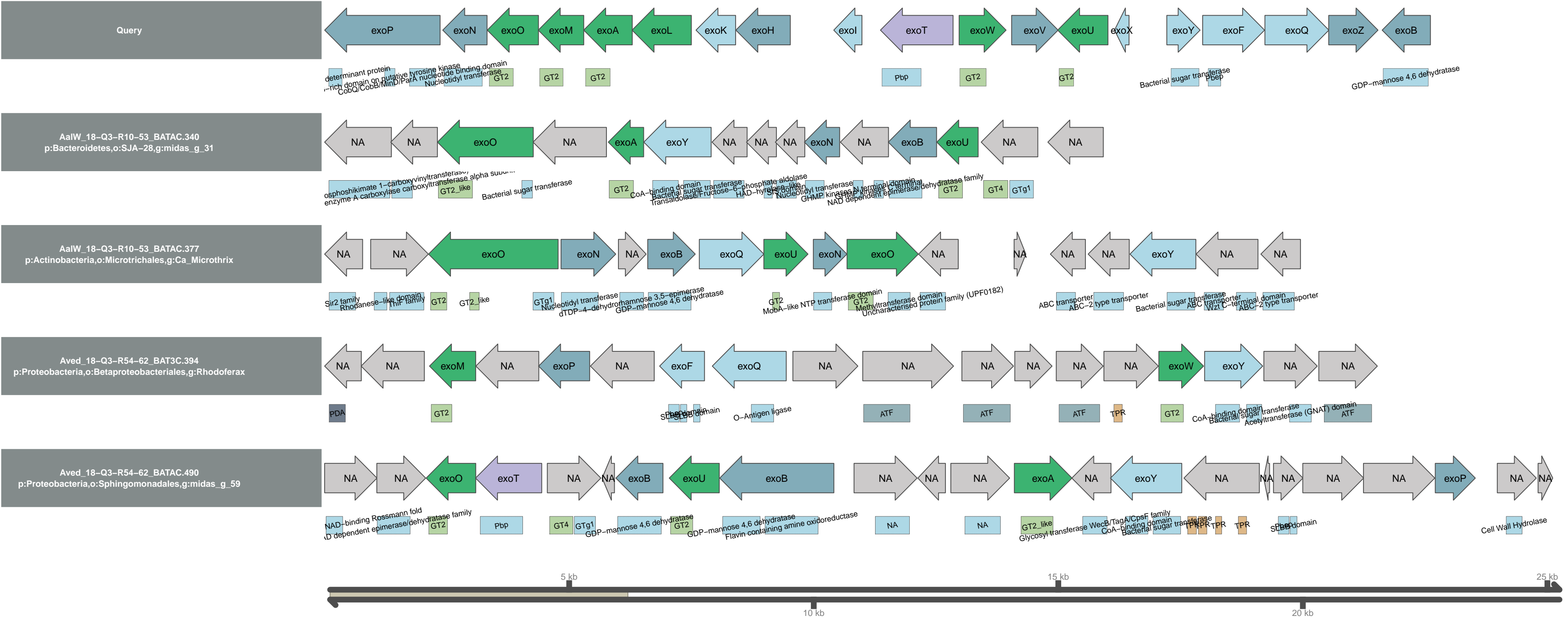
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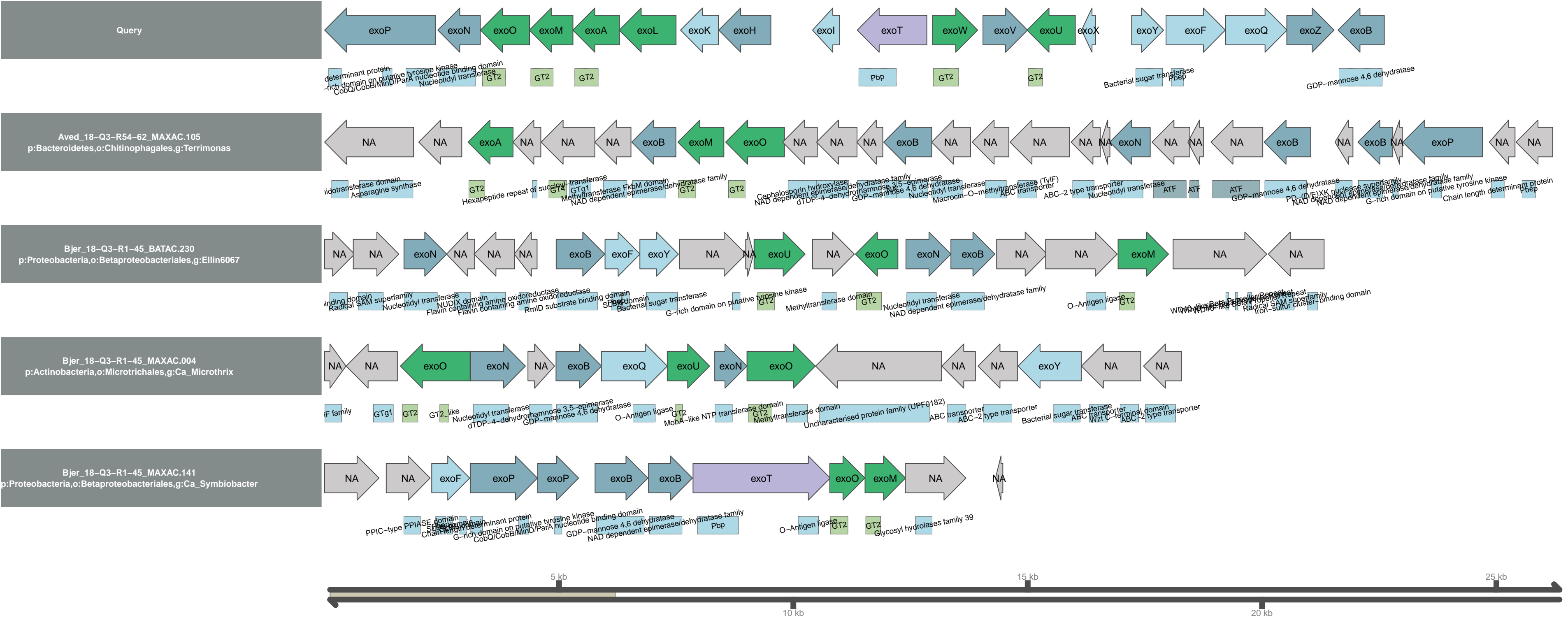
Operon Structure



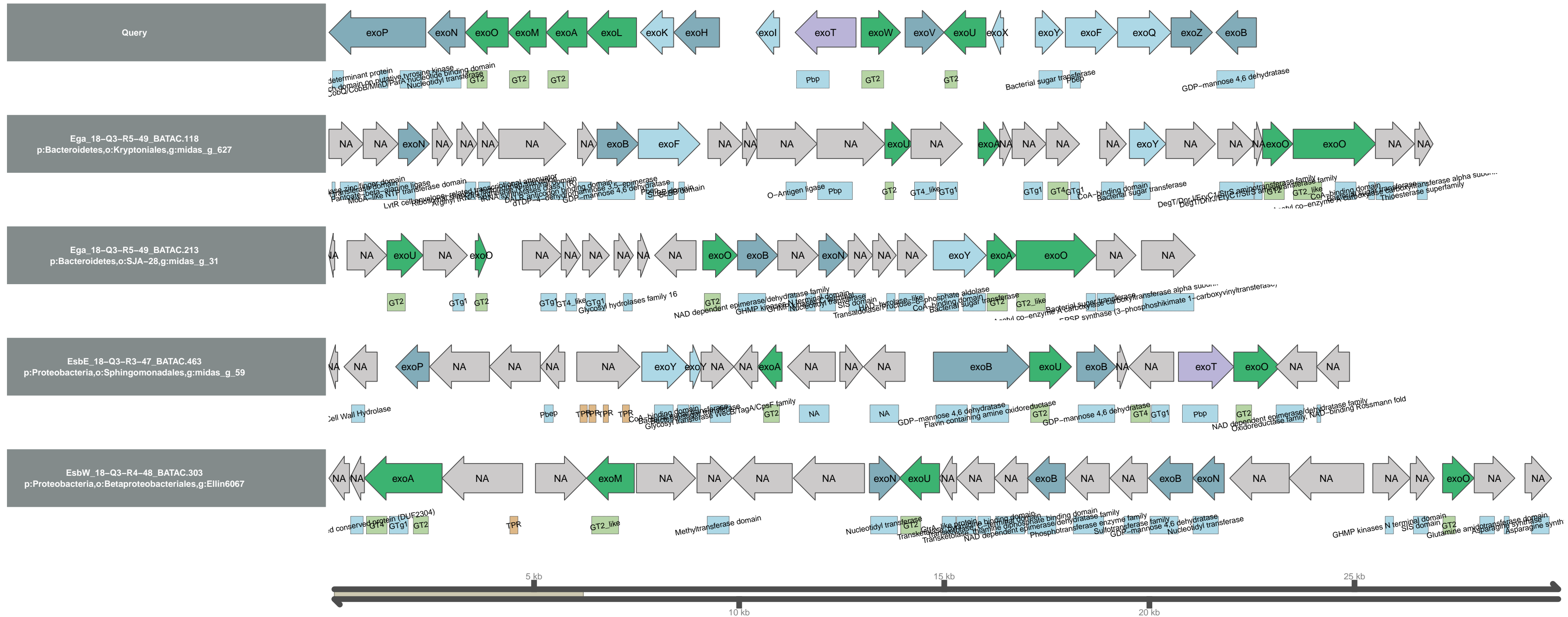
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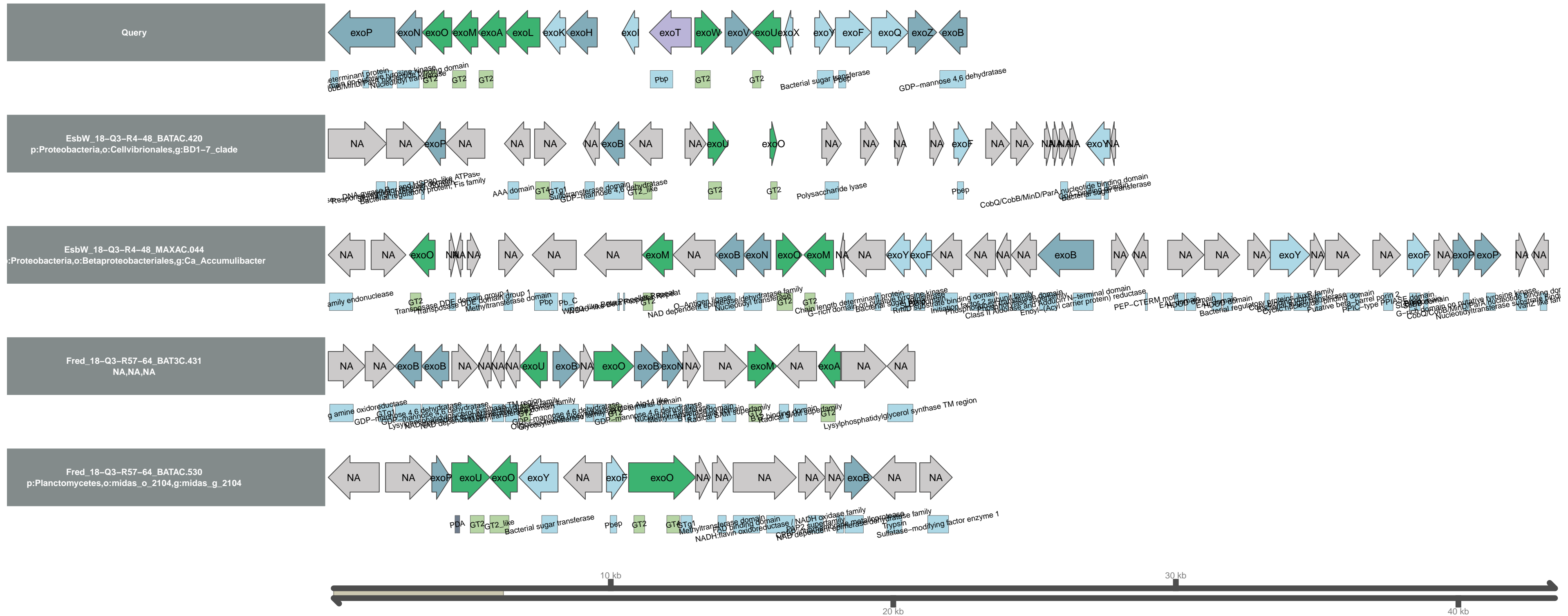
Operon Structure



Operon Structure

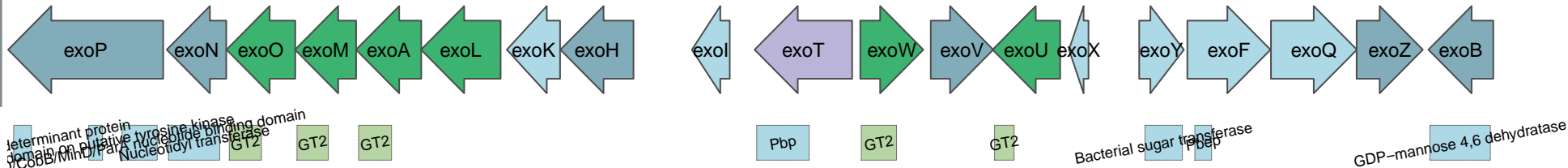


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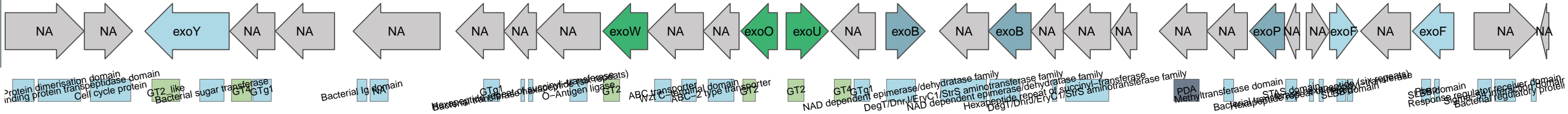


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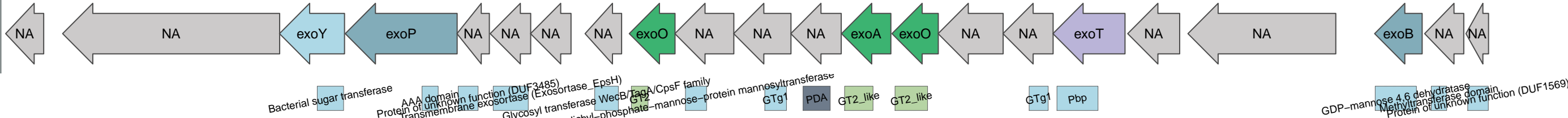
Query



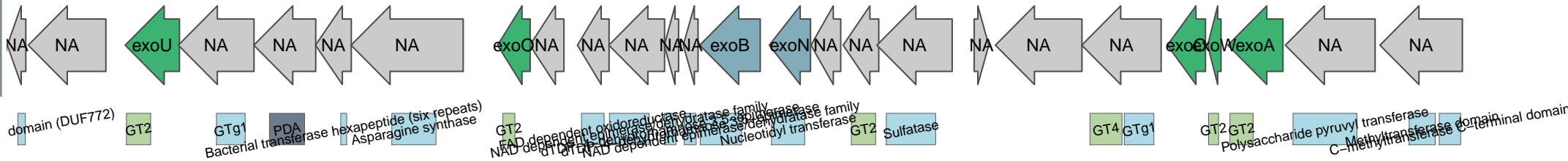
Fred_18-Q3-R57-64_MAXAC.307
p:Proteobacteria,o:Rhodospirillales,g:DeFluviicoccus



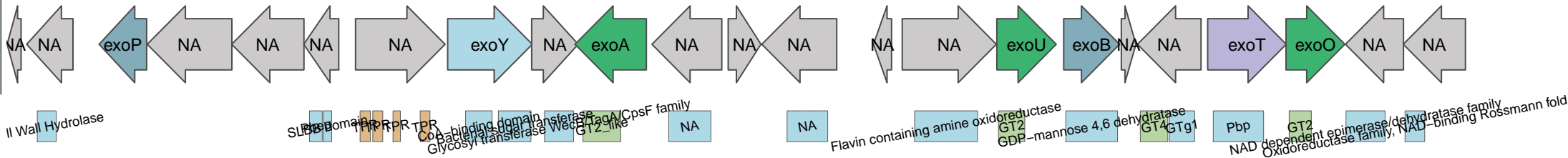
Fred_18-Q3-R57-64_MAXAC.330_cln
p:Planctomycetes,o:Phycisphaerales,g:SM1A02



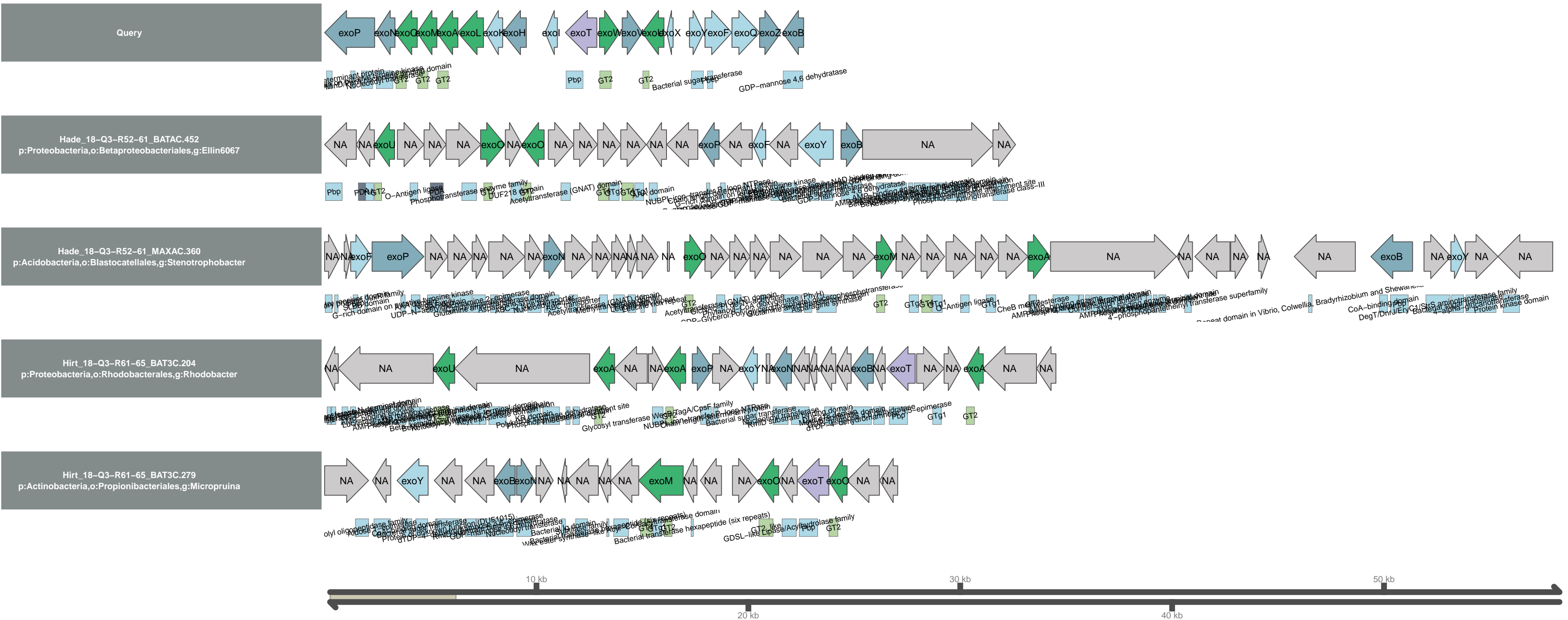
Fred_18-Q3-R57-64_MAXAC.418
p:Planctomycetes,o:S-70,g:midas_g_6854



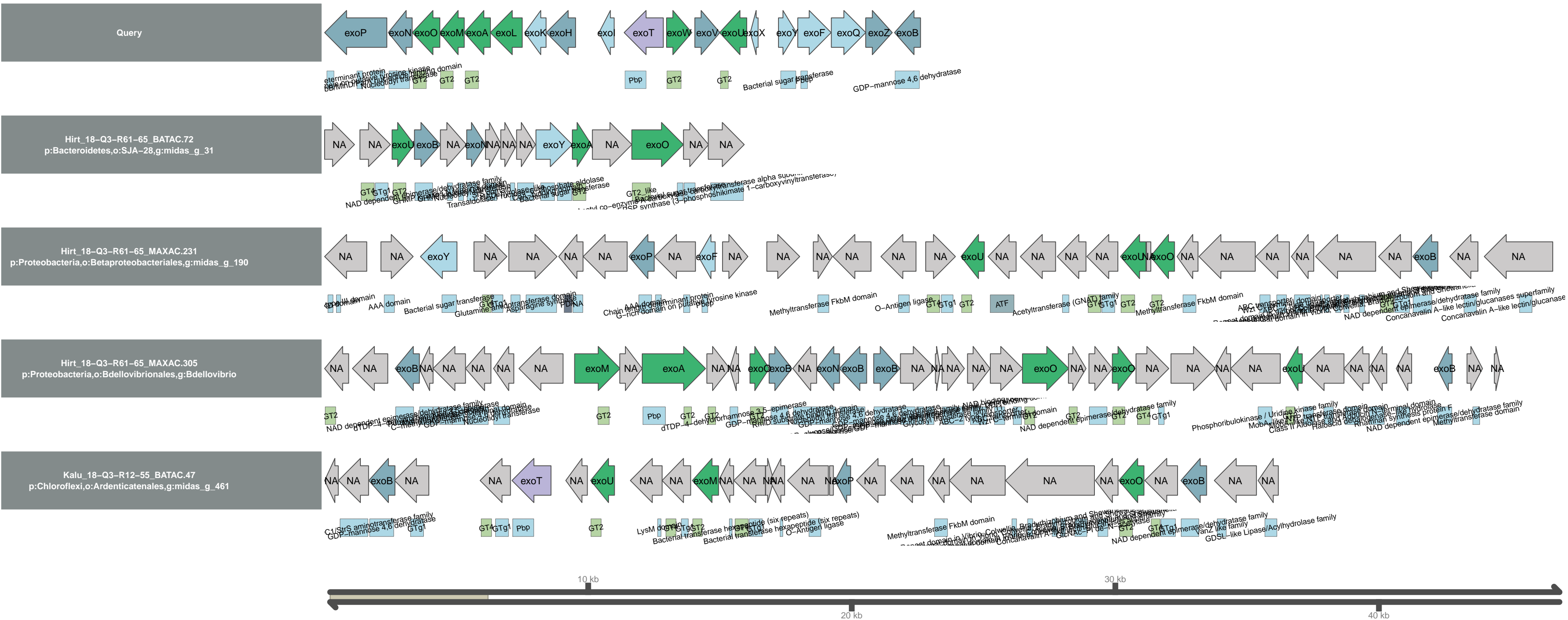
Hade_18-Q3-R52-61_BAT3C.208
p:Proteobacteria,o:Azospirillales,g:midas_g_2759



Operon Structure

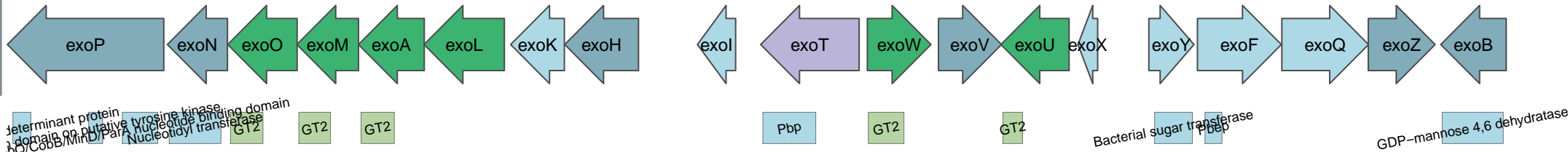


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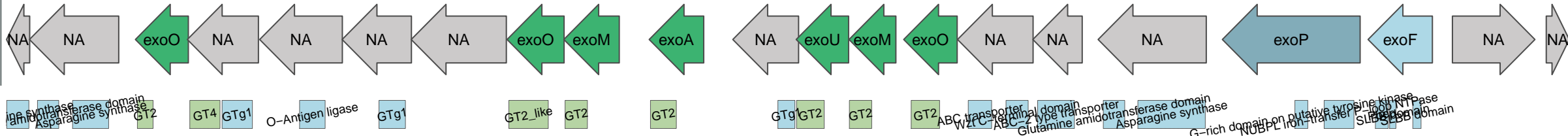


Operon Structure

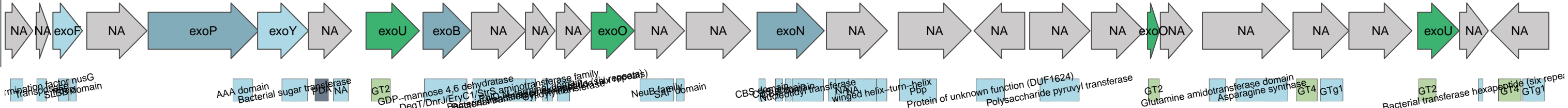
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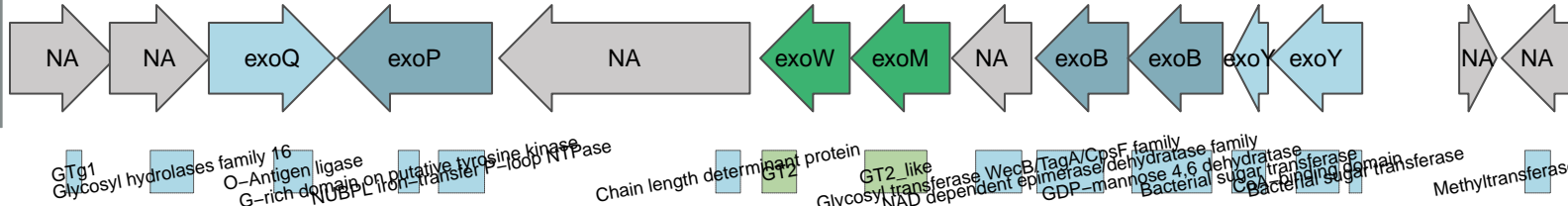
Kalu_18-Q3-R12-55_MAXAC.123
p:Acidobacteria,o:11-24,g:midas_g_1424



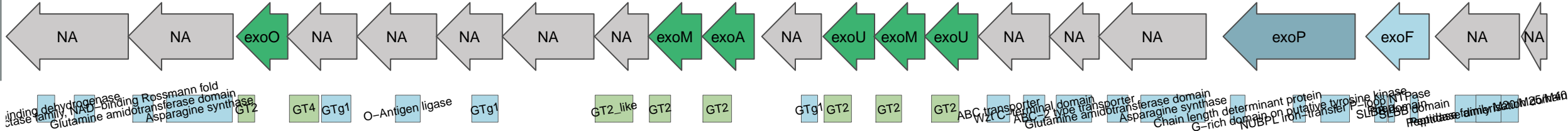
Kalu_18-Q3-R12-55_MAXAC.132v2
p:Nitrospirae,o:Nitrospirales,g:Nitrospira



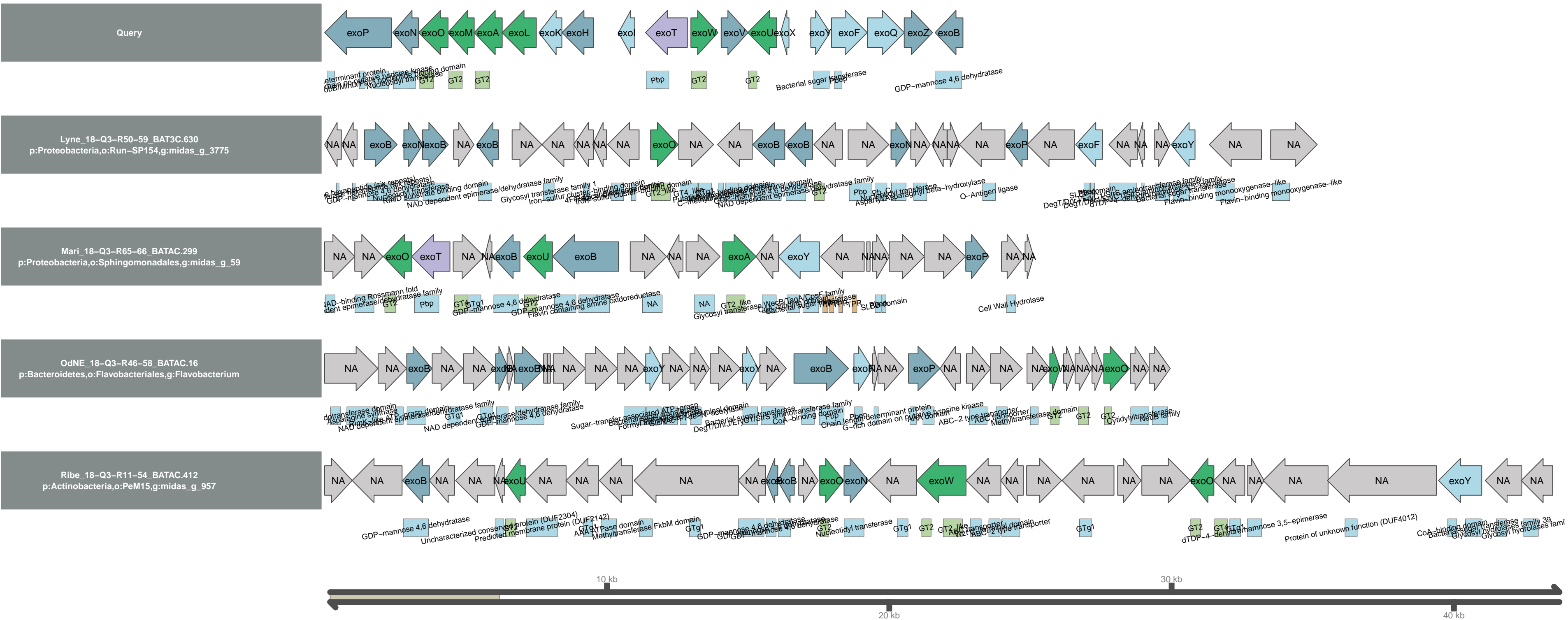
Kalu_18-Q3-R12-55_MAXAC.148
p:Proteobacteria,o:Rhodospirillales,g:Defluviicoccus



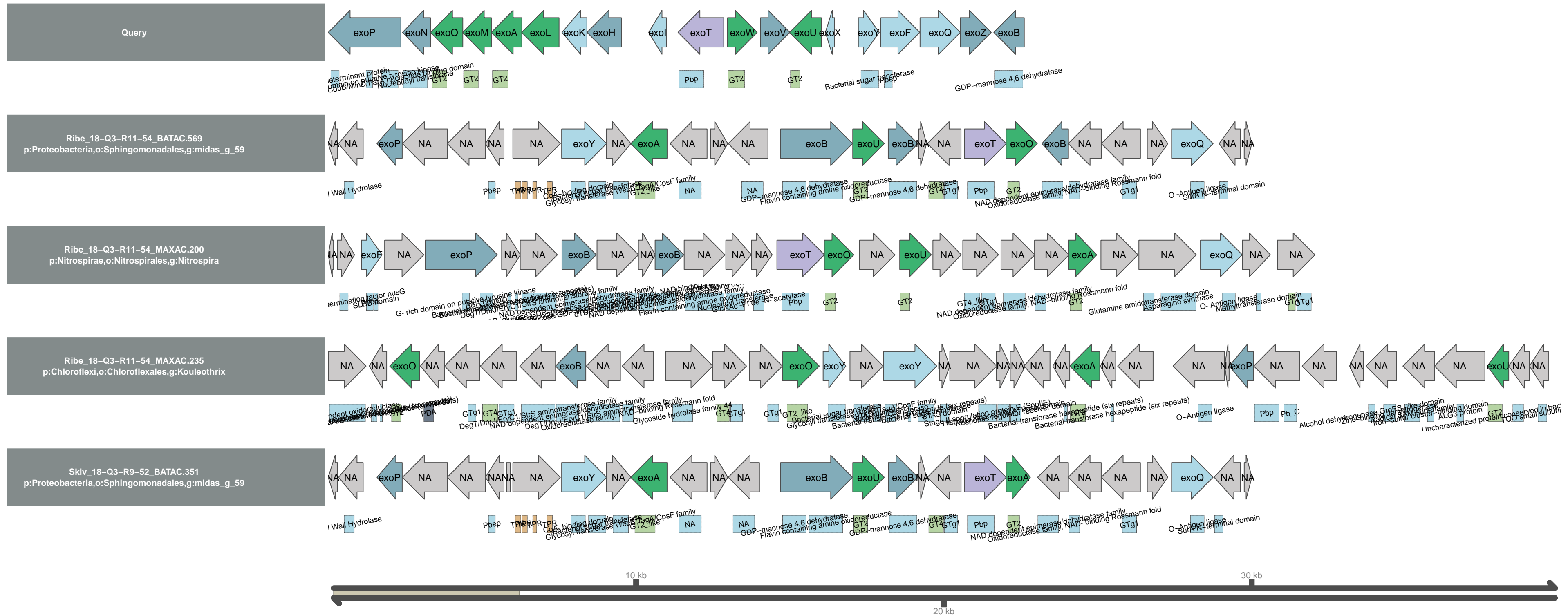
Kalu_18-Q3-R12-55_MAXAC.198_cln
p:Acidobacteria,o:11-24,g:midas_g_1424



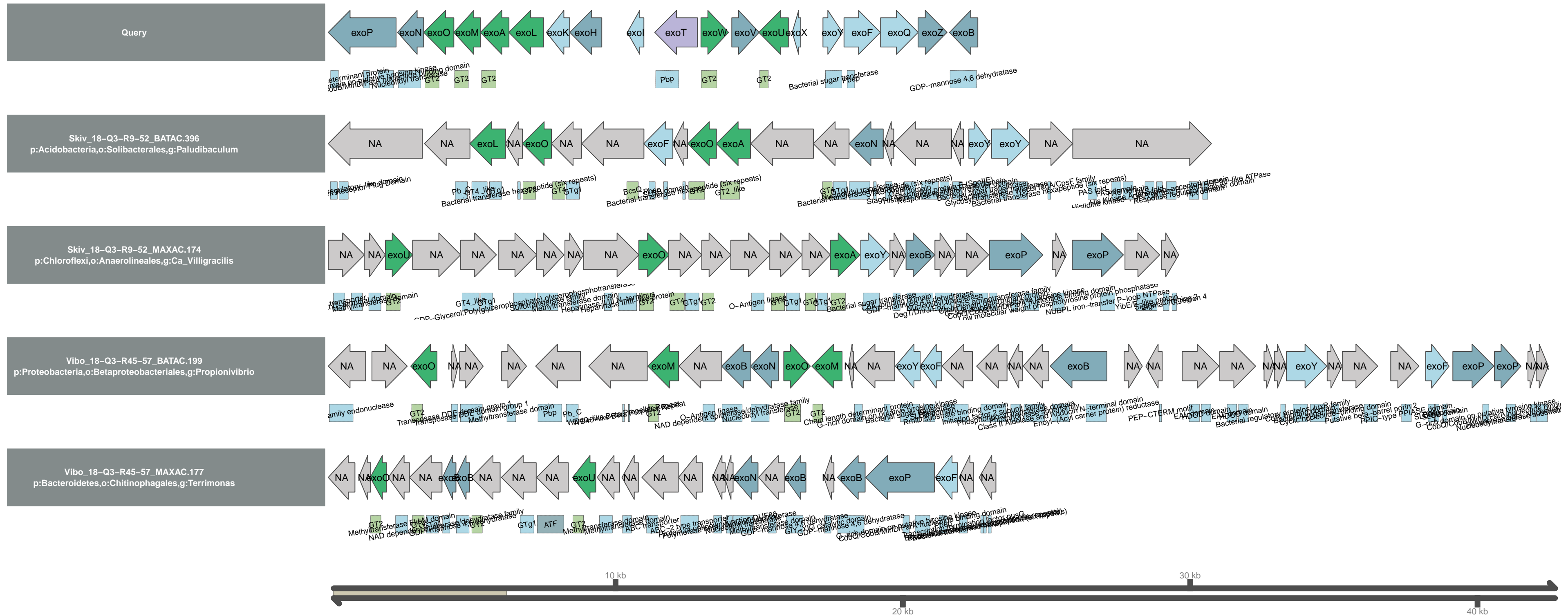
Operon Structure



Operon Structure



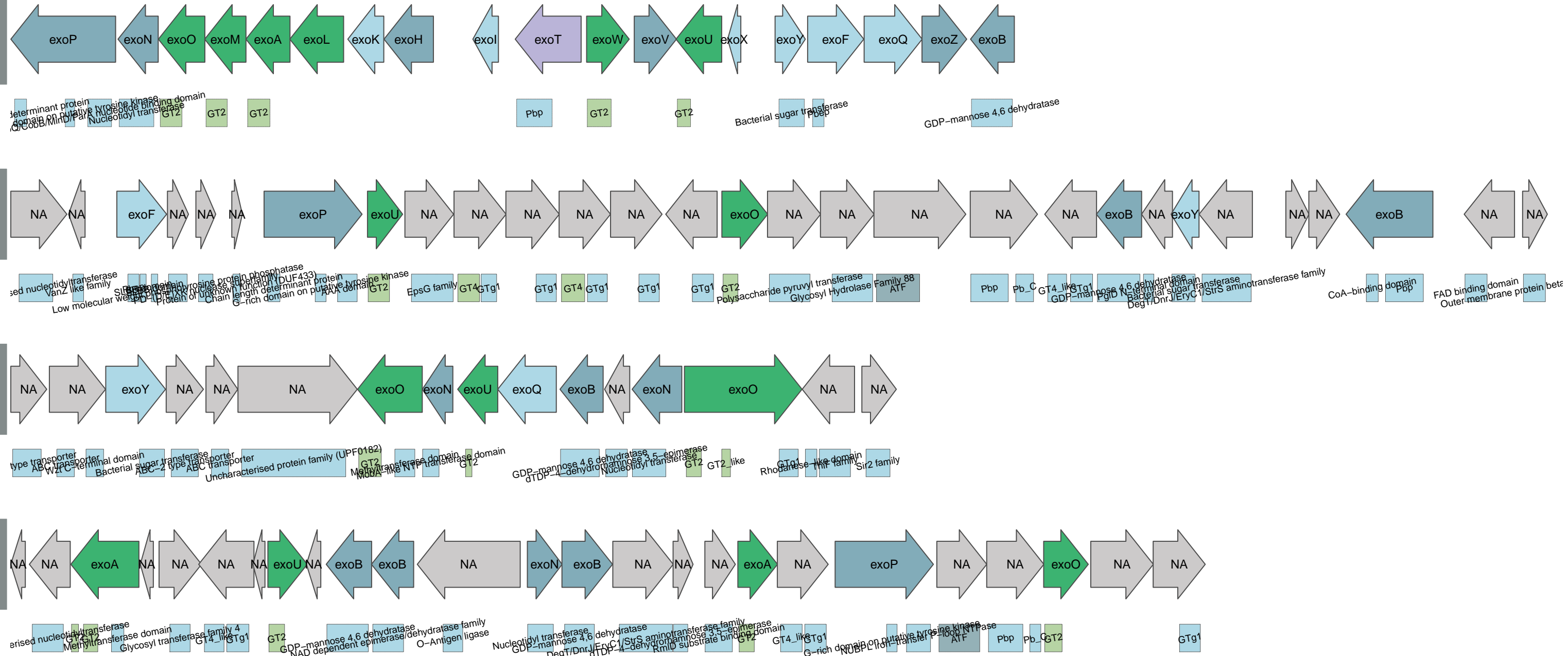
Operon Structure



10 kb

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1	AalE_18-Q3-R2-46_BAT3C.277	p:Proteobacteria,o:Sphingomonadales,g:midas_g_59	tig00006887-10-1241280	49562	exoA	02091
2	AalE_18-Q3-R2-46_MAXAC.104	p:Proteobacteria,o:Sphingomonadales,g:Sphingopyxis	tig00263998-10-9698660	154273	exoA	03131
3	AalW_18-Q3-R10-53_BATAC.174	p:Proteobacteria,o:Rhodobacterales,g:Rhodobacter	tig00006255-10-4666680	192771	exoA	00814
4	AalW_18-Q3-R10-53_BATAC.245	p:Proteobacteria,o:Sphingomonadales,g:midas_g_59	tig01697704-10-12945580	680808	exoA	02970
5	AalW_18-Q3-R10-53_BATAC.340	p:Bacteroidetes,o:SJA-28,g:midas_g_31	tig00005253-10-6246180	142494	exoA	00121
6	AalW_18-Q3-R10-53_BATAC.377	p:Actinobacteria,o:Microtrichales,g:Ca_Microthrix	tig00001645-10-8295780	325352	exob	00298
7	Aved_18-Q3-R54-62_BAT3C.394	p:Proteobacteria,o:Betaproteobacteriales,g:Rhodoferax	tig00006722-10-5174190	407210	exof	00895
8	Aved_18-Q3-R54-62_BATAC.490	p:Proteobacteria,o:Sphingomonadales,g:midas_g_59	tig00373198-10-16596610	603961	exoA	02141
9	Aved_18-Q3-R54-62_MAXAC.105	p:Bacteroidetes,o:Chitinophagales,g:Terrimonas	tig00005322-10-6493790	202244	exoA	03719
10	Bjer_18-Q3-R1-45_BATAC.230	p:Proteobacteria,o:Betaproteobacteriales,g:Ellin6067	tig00009630-10-1594380	74297	exob	02872
11	Bjer_18-Q3-R1-45_MAXAC.004	p:Actinobacteria,o:Microtrichales,g:Ca_Microthrix	tig00001276-10-1080800	17069	exob	01710
12	Bjer_18-Q3-R1-45_MAXAC.141	p:Proteobacteria,o:Betaproteobacteriales,g:Ca_Symbiobacter	tig00007500-10-375860	15584	exob	02648
13	Ega_18-Q3-R5-49_BATAC.118	p:Bacteroidetes,o:Kryptoniales,g:midas_g_627	tig00000655-10-8431380	445130	exoA	00373
14	Ega_18-Q3-R5-49_BATAC.213	p:Bacteroidetes,o:SJA-28,g:midas_g_31	tig00001507-10-3777870	31514	exoA	00631
15	EsbE_18-Q3-R3-47_BATAC.463	p:Proteobacteria,o:Sphingomonadales,g:midas_g_59	tig00004449-10-2095470	175532	exoA	00749
16	EsbW_18-Q3-R4-48_BATAC.303	p:Proteobacteria,o:Betaproteobacteriales,g:Ellin6067	tig00005920-10-4953880	466076	exoA	01920
17	EsbW_18-Q3-R4-48_BATAC.420	p:Proteobacteria,o:Cellvibrionales,g:BD1-7_clade	tig00000538-10-9280820	910395	exob	00832
18	EsbW_18-Q3-R4-48_MAXAC.044	p:Proteobacteria,o:Betaproteobacteriales,g:Ca_Accumulibacter	tig00033796-10-615360	34360	exob	03350
19	Fred_18-Q3-R57-64_BAT3C.431	NA,NA,NA	tig00000848-10-10480140	531808	exoA	00590
20	Fred_18-Q3-R57-64_BATAC.530	p:Planctomycetes,o:midas_o_2104,g:midas_g_2104	tig00002018-10-12358610	429026	exob	00341
21	Fred_18-Q3-R57-64_MAXAC.307	p:Proteobacteria,o:Rhodospirillales,g:Defluviicoccus	tig00002301-10-12040470	30377	exob	02427
22	Fred_18-Q3-R57-64_MAXAC.330_cln	p:Planctomycetes,o:Phycisphaerales,g:SM1A02	tig00000055-10-33509940	2634095	exoA	02163
23	Fred_18-Q3-R57-64_MAXAC.418	p:Planctomycetes,o:S-70,g:midas_g_6854	tig00010737-10-2712970	148466	exoA	00721
24	Hade_18-Q3-R52-61_BAT3C.208	p:Proteobacteria,o:Azospirillales,g:midas_g_2759	tig00011908-10-1495380	100367	exoA	01707
25	Hade_18-Q3-R52-61_BATAC.452	p:Proteobacteria,o:Betaproteobacteriales,g:Ellin6067	tig00000768-10-11872970	1028071	exob	02987

	ID2	plot_tax	seqname	start	Query_label	ProkkaNO
1	Hade_18-Q3-R52-61_MAXAC.360	p:Acidobacteria,o:Blastocatellales,g:Stenotrophobacter	tig00000009-10-41445700	2075127	exxA	01740
2	Hirt_18-Q3-R61-65_BAT3C.204	p:Proteobacteria,o:Rhodobacterales,g:Rhodobacter	tig00317261-10-8095540	432468	exxA	02789
3	Hirt_18-Q3-R61-65_BAT3C.279	p:Actinobacteria,o:Propionibacteriales,g:Micropruina	tig00004475-10-5985650	528511	exxB	03542
4	Hirt_18-Q3-R61-65_BATAC.72	p:Bacteroidetes,o:SJA-28,g:midas_g_31	tig00001530-10-13738940	1253794	exxA	01148
5	Hirt_18-Q3-R61-65_MAXAC.231	p:Proteobacteria,o:Betaproteobacteriales,g:midas_g_190	tig00000003-10-42710140	1916783	exxB	01732
6	Hirt_18-Q3-R61-65_MAXAC.305	p:Proteobacteria,o:Bdellovibrionales,g:Bdellovibrio	tig00316322-10-14895540	470547	exxA	02145
7	Kalu_18-Q3-R12-55_BATAC.47	p:Chloroflexi,o:Ardenticatenales,g:midas_g_461	tig00005364-10-1962320	177173	exxB	04585
8	Kalu_18-Q3-R12-55_MAXAC.123	p:Acidobacteria,o:11-24,g:midas_g_1424	tig00002532-10-4929450	161505	exxA	00967
9	Kalu_18-Q3-R12-55_MAXAC.132v2	p:Nitrospirae,o:Nitrospirales,g:Nitrospira	tig00001930-10-7323120	314090	exxB	01623
10	Kalu_18-Q3-R12-55_MAXAC.148	p:Proteobacteria,o:Rhodospirillales,g:Defluviicoccus	tig00002375-10-5189380	172715	exxB	00819
11	Kalu_18-Q3-R12-55_MAXAC.198_cln	p:Acidobacteria,o:11-24,g:midas_g_1424	tig00000005-10-63322080	3306089	exxA	02552
12	Lyne_18-Q3-R50-59_BAT3C.630	p:Proteobacteria,o:Run-SP154,g:midas_g_3775	tig00011870-10-2387850	23401	exxB	02650
13	Mari_18-Q3-R65-66_BATAC.299	p:Proteobacteria,o:Sphingomonadales,g:midas_g_59	tig00869144-10-6422420	423088	exxA	02513
14	OdNE_18-Q3-R46-58_BATAC.16	p:Bacteroidetes,o:Flavobacteriales,g:Flavobacterium	tig00004974-10-2765880	29729	exxB	00728
15	Ribe_18-Q3-R11-54_BATAC.412	p:Actinobacteria,o:PeM15,g:midas_g_957	tig00001979-10-5826140	256925	exxB	01123
16	Ribe_18-Q3-R11-54_BATAC.569	p:Proteobacteria,o:Sphingomonadales,g:midas_g_59	tig01084768-10-3860630	334067	exxA	03109
17	Ribe_18-Q3-R11-54_MAXAC.200	p:Nitrospirae,o:Nitrospirales,g:Nitrospira	tig00277293-10-36755620	3517703	exxA	03591
18	Ribe_18-Q3-R11-54_MAXAC.235	p:Chloroflexi,o:Chloroflexales,g:Kouleothrix	tig00000009-10-56372800	574899	exxA	00444
19	Skiv_18-Q3-R9-52_BATAC.351	p:Proteobacteria,o:Sphingomonadales,g:midas_g_59	tig00287756-10-1221250	100017	exxA	03437
20	Skiv_18-Q3-R9-52_BATAC.396	p:Acidobacteria,o:Solibacterales,g:Paludibaculum	tig00003208-10-5214800	254160	exxA	01757
21	Skiv_18-Q3-R9-52_MAXAC.174	p:Chloroflexi,o:Anaerolineales,g:Ca_Villigracilis	tig00000002-10-49810230	2619920	exxA	02452
22	Vibo_18-Q3-R45-57_BATAC.199	p:Proteobacteria,o:Betaproteobacteriales,g:Propionivibrio	tig00008044-10-802880	52754	exxB	01877
23	Vibo_18-Q3-R45-57_MAXAC.177	p:Bacteroidetes,o:Chitinophagales,g:Terrimonas	tig00001648-10-5476630	259218	exxB	01175
24	Viby_18-Q3-R106-67_BAT3C.260	p:Acidobacteria,o:Holophagales,g:midas_g_201	tig00000170-10-6009320	348162	exxB	01164
25	Viby_18-Q3-R106-67_BAT3C.52	p:Actinobacteria,o:Microtrichales,g:Ca_Microthrix	tig00591538-10-3050910	49749	exxB	03532

ID2		plot_tax	seqname	start	Query_label	ProkkaNO
1	Viby_18-Q3-R106-67_MAXAC.089	p:Proteobacteria,o:Myxococcales,g:Anaeromyxobacter	tig00157523-10-5488270	521264	exxA	04190