

Organism	Length	GI	Taxonomy	Gene organization§	Genome Status
<i>alpha proteobacterium HTCC2255</i>	357	114773289	a	G* <b>XG**DC</b> [NB]HAF[IE]---BHAF[IE]---ZG***---additional copies (scattered)	unfinished
<i>Bacteroides thetaiotaomicron VPI-5482</i>	374	29345613	CFB	GDC[NB]---HAF[IE]	finished
<i>Bacteroides fragilis YCH46</i>	374	53714474	CFB	GDC[NB]---HAF[IE]	finished
<i>Cytophaga hutchinsonii ATCC 33406</i>	372	110637675	CFB	GD---C[NB]HAF---I	finished
<i>Gramella forsetii KT0803</i>	379	120436112	CFB	GDC[NB]HAF[IE]	finished
<i>Croceibacter atlanticus HTCC2559</i>	377	83858108	CFB	GDCX[NB]HAF[IE]	unfinished
<i>Cellulophaga sp. MED134</i>	378	86130227	CFB	GDC[NB]HA---??	unfinished
<i>Tenacibaculum sp. MED152</i>	379	86133445	CFB	G1G2C[NB]HAF[IE]	unfinished
<i>Flavobacterium sp. MED217</i>	385	86143306	CFB	GDC[NB]HAXF[IE]	unfinished
<i>Flavobacteriales bacterium HTCC2170</i>	377	88712457	CFB	GDC[NB]HAXFXX[IE]	unfinished
<i>Polaribacter irgensii 23-P</i>	378	88802980	CFB	GDC[NB]HAXF[IE]	unfinished
<i>Robiginitalea biformata HTCC2501</i>	388	88805687	CFB	GDC[NB]HAXF[IE]	unfinished
<i>Flavobacteria bacterium BBFL7</i>	369	89891713	CFB	GDC[NB]HAXF[IE]	unfinished
<i>Flavobacterium johnsoniae UW101</i>	378	90592003	CFB	GDC[NB]HAF[IE]	unfinished
<i>Psychroflexus torquis ATCC 700755</i>	377	91217706	CFB	GDC[NB]HAF[IE]	unfinished
<i>Microscilla marina ATCC 23134</i>	373	124006022	CFB	GDC[NB]---HA--I--E	unfinished
<i>Algoriphagus sp. PR1</i>	365	126646562	CFB	GDC[NB]---HAF[IE]	unfinished
<i>Flavobacteria bacterium BAL38</i>	379	126664303	CFB	GD1---D2C1C2[NB]HAF[IE]	unfinished
<i>Campylobacter lari RM2100</i>	355	57241587	e	GD[NB]HAF[IE]	unfinished
<i>Campylobacter upsaliensis RM3195</i>	352	57242505	e	GD[NB]XXHAXFXX[IE]	unfinished
<i>Campylobacter coli RM2228</i>	353	57504889	e	GD[NB]HAF[IE]	unfinished
<i>Photorhabdus luminescens subsp. laumondii TTO1</i>	355	37525515	g	GDC[NB]HAF[IE]	finished
<i>Yersinia enterocolitica subsp. enterocolitica 8081</i>	355	123442984	g	GDC[NB]HAF[IE]	finished
<i>Shewanella baltica OS155</i>	363	126174641	g	GDC[NB]HAF[IE]	finished
<i>Shewanella loihica PV-4</i>	356	127513128	g	GDC[NB]HAF[IE]	finished
<i>Erwinia carotovora subsp. atroseptica SCRI1043</i>	355	50121509	g	GDC[NB]HAF[IE]	finished
<i>Yersinia pseudotuberculosis IP 32953</i>	355	51595896	g	GDC[NB]HAF[IE]	finished
<i>Mannheimia succiniciproducens MBEL55E</i>	365	52425945	g	GDC[NB]XXXXHAXF[IE]	finished
<i>Legionella pneumophila subsp. pneumophila str. Phila</i>	352	52841430	g	GDC[NB]HAF[IE]	finished
<i>Legionella pneumophila str. Paris</i>	352	54297154	g	GDC[NB]HAF[IE]	finished
<i>Legionella pneumophila str. Lens</i>	352	54294141	g	GDC[NB]HAF[IE]	finished
<i>Photobacterium profundum SS9</i>	361	54308282	g	GDC[NB]HAF[IE]	finished
<i>Idiomarina loihiensis L2TR</i>	358	56460937	g	GDC[NB]HAF[IE]	finished
<i>Xanthomonas oryzae pv. oryzae KACC10331</i>	375	58581881	g	GDC[NB]HAF[IE]	finished
<i>Vibrio fischeri ES114</i>	357	59711622	g	GDC[NB]HAF[IE]	finished
<i>Colwellia psychrerythraea 34H</i>	361	71282446	g	GDC[NB]HAF[IE]	finished
<i>Candidatus Blochmannia pennsylvanicus str. BPEN</i>	356	71892239	g	GDC[NB]HAF[IE]	finished
<i>Shigella sonnei Ss046</i>	356	74312565	g	GDC[NB]HAF[IE]	finished
<i>Pseudoalteromonas haloplanktis TAC125</i>	353	77362400	g	GDC[NB]HAXXXXF[IE]	finished
<i>Shigella dysenteriae Sd197</i>	356	82777446	g	GDC[NB]HAF[IE]	finished
<i>Shigella boydii Sb227</i>	355	82543399	g	GDC[NB]HAF[IE]	finished
<i>Sodalis glossinidius str. 'morsitans'</i>	355	85059105	g	GDC[NB]HAF[IE]	finished
<i>Shewanella denitrificans OS217</i>	355	91792971	g	GDC[NB]HAF[IE]	finished
<i>Baumannia cicadellincola str. Hc (Homalodisca coagu)</i>	356	94676488	g	GDC[NB]HAF[IE]	finished
<i>Pseudoalteromonas atlantica T6c</i>	358	109899190	g	GDC[NB]HAXF[IE]	finished
<i>Shewanella sp. MR-4</i>	363	113970135	g	GDC[NB]HAF[IE]	finished
<i>Shewanella sp. MR-7</i>	363	114047675	g	GDC[NB]HAF[IE]	finished
<i>Shewanella frigidimarina NCIMB 400</i>	355	114562892	g	GDC[NB]HAF[IE]	finished
<i>Aeromonas hydrophila subsp. hydrophila ATCC 7966</i>	383	117618028	g	GDC[NB]HAXXXF[IE]	finished
<i>Shewanella sp. ANA-3</i>	363	117920296	g	GDC[NB]HAF[IE]	finished
<i>Shewanella amazonensis SB2B</i>	355	119775079	g	GDC[NB]HAF[IE]	finished
<i>Psychromonas ingrahamii 37</i>	356	119945366	g	GDC[NB]HAXXXXF[IE]	finished
<i>Shewanella sp. W3-18-1</i>	363	120598644	g	GDC[NB]HAF[IE]	finished
<i>Actinobacillus pleuropneumoniae serovar 1 str. 4074</i>	363	53729148	g	GDCX[NB]XHAF[IE]	unfinished
<i>Shigella boydii BS512</i>	355	75177149	g	GDC[NB]HAF[IE]	unfinished
<i>Actinobacillus succinogenes 130Z</i>	364	75429723	g	GDCX[NB]XH---A---F[IE]	unfinished
<i>Shewanella putrefaciens CN-32</i>	363	77815195	g	GDC[NB]HAF[IE]	unfinished
<i>Yersinia bercovieri ATCC 43970</i>	355	77959284	g	GDC[NB]HAF[IE]	unfinished
<i>Yersinia mollaretii ATCC 43969</i>	355	77962462	g	GDC[NB]HAF[IE]	unfinished
<i>Yersinia frederiksenii ATCC 33641</i>	355	77975877	g	GDC[NB]HAF[IE]	unfinished
<i>Yersinia intermedia ATCC 29909</i>	355	77978866	g	GDC[NB]HAF[IE]	unfinished
<i>Shigella dysenteriae 1012</i>	355	83571264	g	GDC[NB]HAF[IE]	unfinished
<i>Vibrio splendidus 12B01</i>	362	84391744	g	GDC[NB]HAF[IE]	unfinished
<i>Idiomarina baltica OS145</i>	358	85712681	g	GDC[NB]HAF[IE]	unfinished
<i>Vibrio sp. MED222</i>	362	86147092	g	GDC[NB]HAF[IE]	unfinished
<i>Alteromonas macleodii 'Deep ecotype'</i>	356	88794032	g	GDC[NB]HAF[IE]	unfinished
<i>Pseudoalteromonas tunicata D2</i>	353	88857348	g	GDC[NB]HAXF[IE]	unfinished
<i>Photobacterium sp. SKA34</i>	356	89075755	g	GDC[NB]HAF[IE]	unfinished
<i>Psychromonas sp. CNPT3</i>	356	90407647	g	GDC[NB]HAF[IE]	unfinished
<i>Photobacterium profundum 3TCK</i>	361	90411636	g	GDC[NB]HAF[IE]	unfinished
<i>Vibrio angustum S14</i>	356	90580090	g	GDC[NB]HAF[IE]	unfinished
<i>Vibrio alginolyticus 12G01</i>	357	91226028	g	GDC[NB]HAF[IE]	unfinished
<i>Shewanella baltica OS195</i>	363	113950503	g	GDC[NB]HAF[IE]	unfinished
<i>Vibrio sp. Ex25</i>	357	116183729	g	GDC[NB]HAF[IE]	unfinished
<i>Yersinia pseudotuberculosis IP 31758</i>	355	117673997	g	GDC[NB]HAF[IE]	unfinished
<i>Serratia proteamaculans 568</i>	355	118067988	g	GDC[NB]HAF[IE]	unfinished
<i>Shewanella woodyi ATCC 51908</i>	359	118074420	g	GDC[NB]HAXXXXF[IE]	unfinished
<i>Enterobacter sp. 638</i>	355	118739614	g	GDC[NB]HAF[IE]	unfinished
<i>Shewanella pealeana ATCC 700345</i>	364	118757732	g	GDC[NB]HAF[IE]	unfinished
<i>Alteromonadales bacterium TW-7</i>	353	119470924	g	GDC[NB]HAF[IE]	unfinished
<i>Stenotrophomonas maltophilia R551-3</i>	357	119879014	g	GDC[NB]HAF[IE]	unfinished

§ --- indicates a large (>10kb) separation between genes or gene clusters, X indicates a non his genes

\* fragment? Only 167 residues vs average HisG >200

\*\* long or E. coli type, it is autonomously feedback inhibited

\*\*\* short type (requires HisZ for feedback inhibition and proper functioning)