

**Table 3. Comparison genomes for BLAST-based mapping**

Organism	N genes	genes within home phylum			genes unassigned to known phylum		
		30%	60%	90%	30%	60%	90%
Bacillus Anthaces Ames	5439	5230	5211	4498	8	15	57
Listeria monocytogenes str. 1/2a F6854	3052	2101	2086	2051	31	105	168
Fusobacterium nucleatum nucleatum ATCC 25586	2128	1574	1599	1308	39	372	758
Fusobacterium nucleatum subsp. vincentii ATCC 49256	2327	1815	1773	1404	46	406	837
Bacteroides thetaiotaomicron VPI-5482	4902	3331	2219	549	144	2414	4264
Bacteroides fragilis NCTC9343	4399	3751	3575	3411	187	682	896
Campylobacter jejuni NCTC 11168	1707	1578	1557	1495	30	85	159
Campylobacter coli RM2228	2019	1752	1609	702	61	316	1264
Helicobacter pylori 26695	1609	1450	1412	929	39	140	637
Leptospira interrogans serovar Copenhageni Fiocruz	3700	3516	3499	3006	39	151	652
Borrelia burgdorferi B31	1677	1142	887	343	171	729	1296
Dehalococcoides ethenogenes 195	1629	1274	1254	740	88	273	840
Thermus thermophilus HB8	2031	1882	1859	1826	4	91	151
TM7a	3245				1056	2476	3147

Organism	% in home phylum			% unassigned to known phylum		
	30%	60%	90%	30%	60%	90%
Bacillus Anthaces Ames	96.2%	95.8%	82.7%	0.1%	0.3%	1.0%
Listeria monocytogenes str. 1/2a F6854	68.8%	68.3%	67.2%	1.0%	3.4%	5.5%
Fusobacterium nucleatum nucleatum ATCC 25586	74.0%	75.1%	61.5%	1.8%	17.5%	35.6%
Fusobacterium nucleatum subsp. vincentii ATCC 49256	78.0%	76.2%	60.3%	2.0%	17.4%	36.0%
Bacteroides thetaiotaomicron VPI-5482	68.0%	45.3%	11.2%	2.9%	49.2%	87.0%
Bacteroides fragilis NCTC9343	85.3%	81.3%	77.5%	4.3%	15.5%	20.4%
Campylobacter jejuni NCTC 11168	92.4%	91.2%	87.6%	1.8%	5.0%	9.3%
Campylobacter coli RM2228	86.8%	79.7%	34.8%	3.0%	15.7%	62.6%
Helicobacter pylori 26695	90.1%	87.8%	57.7%	2.4%	8.7%	39.6%
Leptospira interrogans serovar Copenhageni Fiocruz	95.0%	94.6%	81.2%	1.1%	4.1%	17.6%
Borrelia burgdorferi B31	68.1%	52.9%	20.5%	10.2%	43.5%	77.3%
Dehalococcoides ethenogenes 195	78.2%	77.0%	45.4%	5.4%	16.8%	51.6%
Thermus thermophilus HB8	92.7%	91.5%	89.9%	0.2%	4.5%	7.4%
Average (not including TM7a)	82.6%	78.2%	59.8%	2.8%	15.5%	34.7%
TM7a				32.5%	76.3%	97.0%

Data from IMG/M.