

1 **S2 Table. Taxa responsible for the largest contribution (in %) to the dissimilarity between adults and chicks according to SIMPER
2 analysis. Blue indicates OTUs that were more abundant in chicks and green in adults.**

3

OTU	Reads	Samples ^a	Average abundance	Contribution	Taxonomy	
			Adults	Chicks	%	
3116	156701	45	4.73	64.20	2.99	Clostridiales Peptostreptococcaceae Incertae.Sedis uncultured.bacterium
1114	61449	44	5.45	33.70	1.4	Fusobacteriales Fusobacteriaceae Fusobacterium Fusobacterium,sp.,RMA,1065
3567	29107	24	0.40	24.17	1.15	Clostridiales Lachnospiraceae Incertae,Sedis uncultured,bacterium
258	35112	16	0.35	16.24	0.75	Clostridiales Ruminococcaceae Anaerotruncus uncultured,bacterium
3709	10585	23	0.33	15.68	0.75	Clostridiales Lachnospiraceae Incertae,Sedis Clostridium,colinum
243	14001	45	6.02	14.99	0.66	Clostridiales Ruminococcaceae Fastidiosipila Clostridiales,genom.,BVAB3,str.,UPII9-5
2605	19763	34	11.95	12.94	0.71	Lactobacillales Leuconostocaceae Leuconostoc uncultured,bacterium
3720	18388	14	0.22	12.70	0.62	Clostridiales Lachnospiraceae Incertae,Sedis Clostridium,colinum
947	36881	42	26.50	10.71	1.15	Clostridiales Family,XI,Incert Sedis Incertae,Sedis uncultured,bacterium
3457	50361	35	30.18	8.78	1.49	Bacteroidales Porphyromonadaceae Petrimonas uncultured,bacterium
3276	24361	39	9.48	7.15	0.66	Fusobacteriales Fusobacteriaceae Cetobacterium uncultured,bacterium
2004	25420	34	25.95	5.33	1.17	Bacteroidales Porphyromonadaceae Petrimonas uncultured,bacterium
1248	43765	34	32.86	5.06	1.44	Clostridiales Clostridiaceae Alkaliphilus uncultured,bacterium
2547	12019	29	15.64	2.10	0.78	Bacteroidales Porphyromonadaceae Porphyromonas Porphyromonas,sp..2018
3587	9236	32	14.95	2.03	0.67	Bacteroidales Porphyromonadaceae Porphyromonas Porphyromonas gingivalis,ATCC,33277
734	14525	32	20.68	1.85	0.91	Campylobacteriales Campylobacteraceae Campylobacter uncultured,bacterium
2964	11442	29	16.73	0.23	0.79	Neisseriales Neisseriaceae Snodgrassella Snodgrassella,alvi
2425	10262	28	16.66	0.22	0.77	Neisseriales SC-I-84 uncultured,proteobacterium
2467	19988	27	22.31	0.21	1.06	Clostridiales Family,XI,Incert Sedis Finegoldia uncultured,bacterium
2858	5878	27	12.60	0.09	0.58	Candidate,div SR1 uncultured,bacterium

4 ^a Number of samples in which the OTU appeared.

5

6