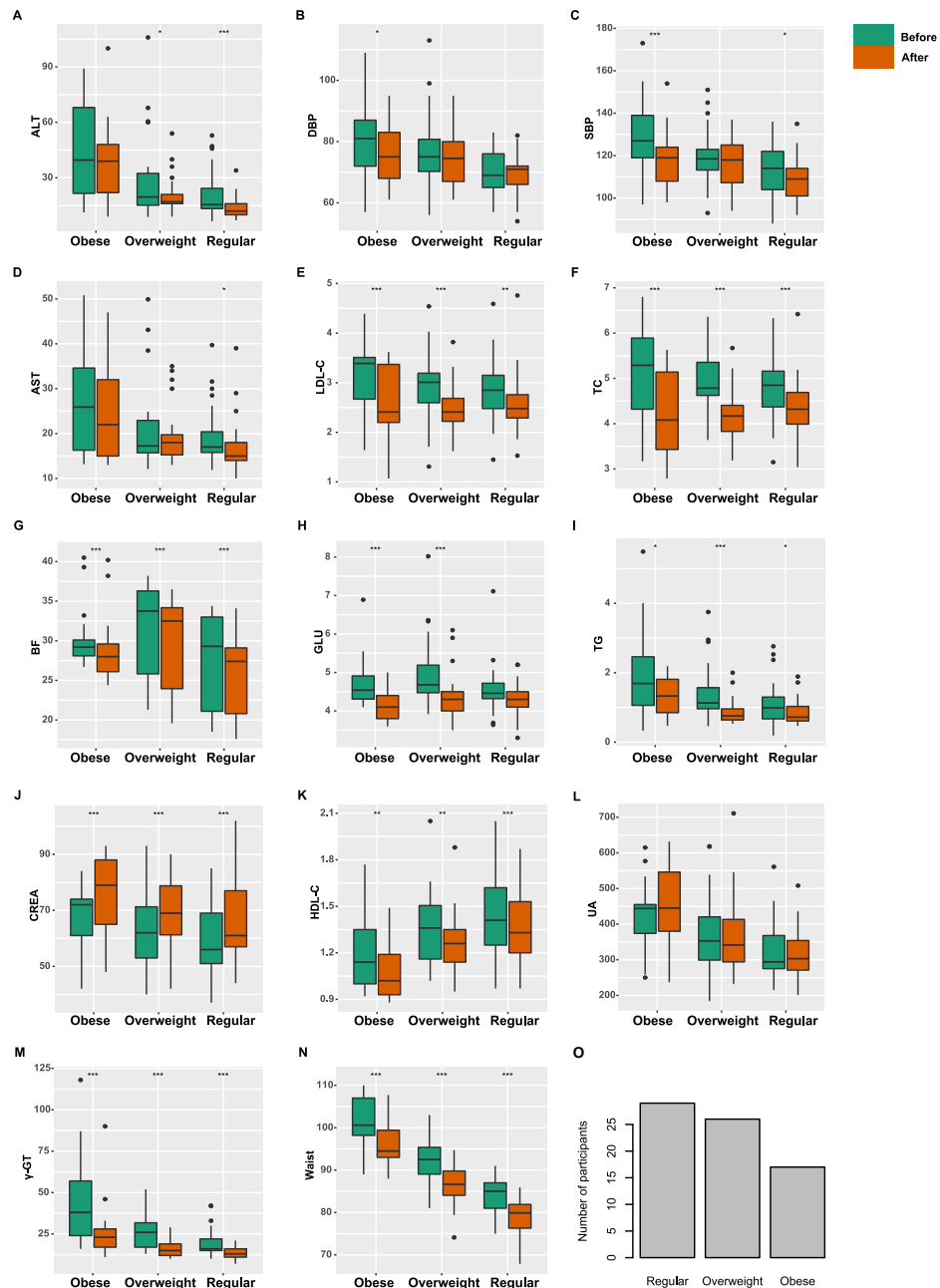
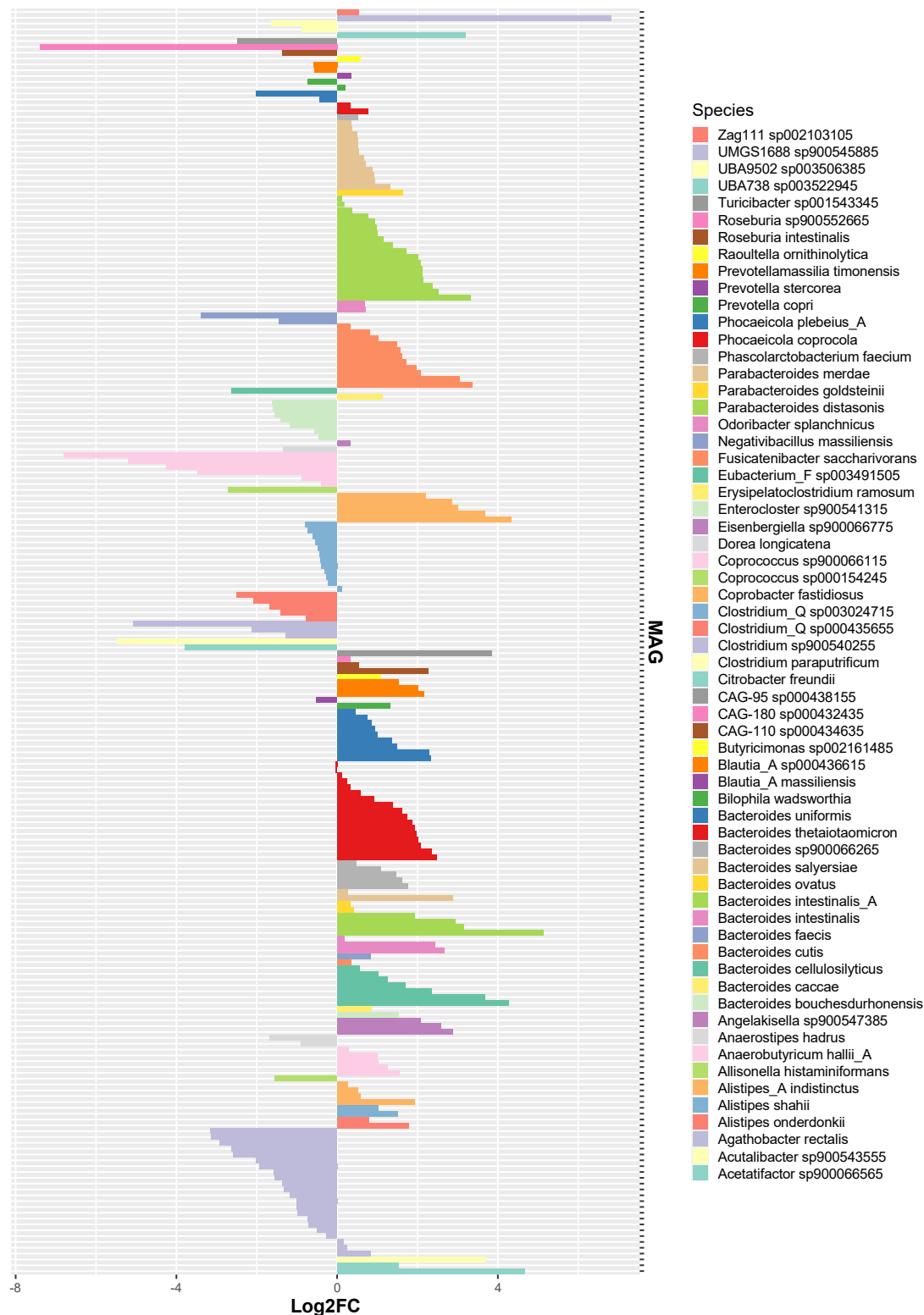




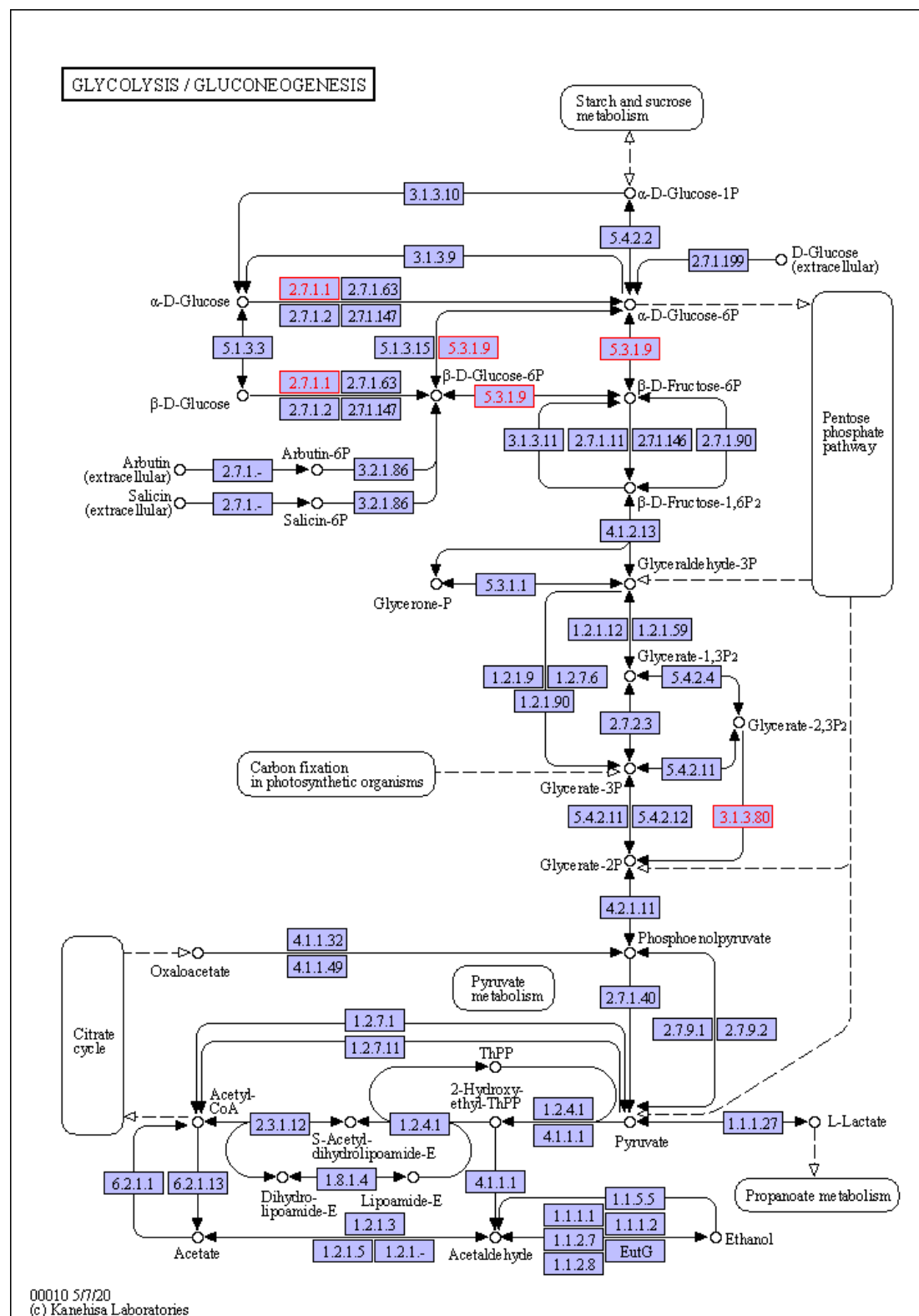
Supplementary Figure 1. Changes in clinical parameters after the three-week IF intervention. Most of the parameters showed significant improvement (***) represents adjusted $p < 0.001$, ** represents adjusted $p < 0.01$, * represents adjusted $p < 0.05$, respectively, paired Wilcoxon test) after the intervention. The improvements were mostly uniform among different levels of body mass index (BMI). (A) Atherosclerosis index (AI). (B) Diastolic blood pressure (DBP). (C) Systolic blood pressure. (D) Aspartate aminotransferase (AST). (E) Low-density lipoprotein cholesterol (LDL-C). (F) Total cholesterol (TC). (G) Body fat (BF). (H) Glucose (GLU). (I) triglyceride (TG). (J) Creatinine (CREA). (K) High-density lipoprotein cholesterol (LDL-H). (L) Uric acid (UA). (M) Gamma-glutamyl transferase (γ -GT). (N) Waist. (O) Distribution of the participants to the three BMI classes. Plots of BMI, weight, and atherosclerosis index (AI) are presented in the main Figure 1B and

therefore not included here. Bounds of boxes represent the first quartiles (Q1) and the third quartiles (Q3) respectively, centre lines represent the median values, and the whiskers are ranged from $Q1 - 1.5 \times (Q3 - Q1)$ to $Q3 + 1.5 \times (Q3 - Q1)$.

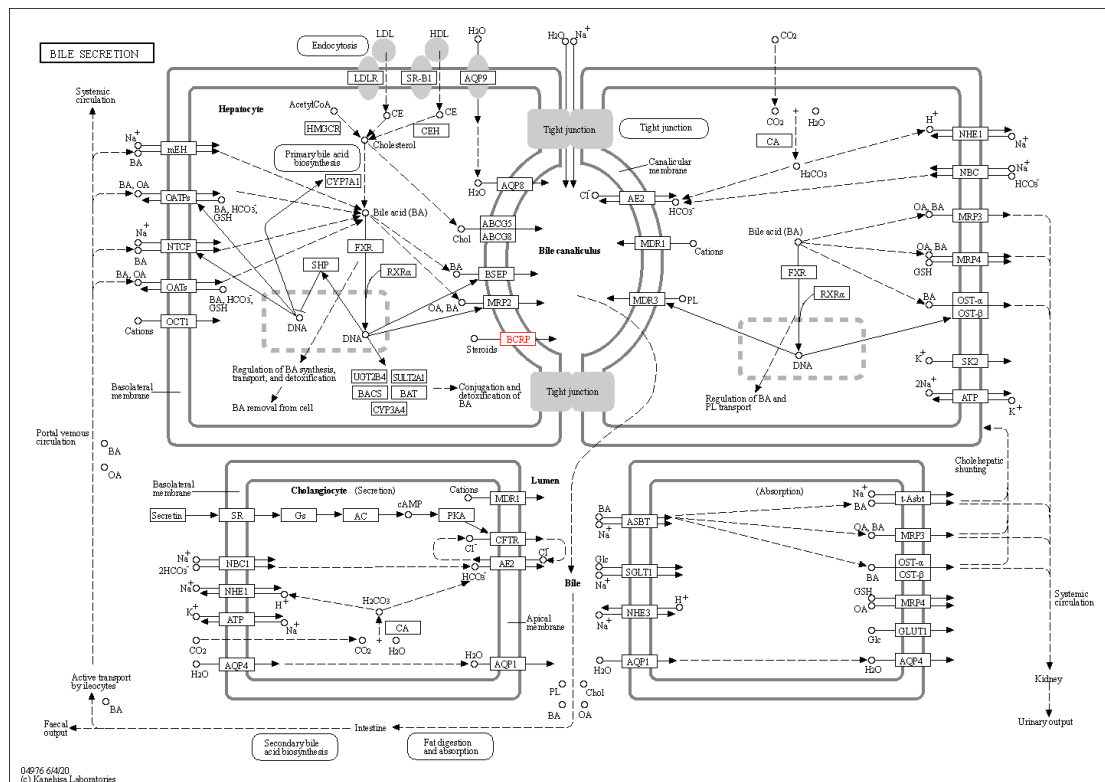


Supplementary Figure 2. Fold change of the MAGs enriched either before or after the intervention. The metagenome-assembled genomes (MAGs) with a fold-change less than zero were enriched before the IF intervention, and those with values above zero were enriched after. Bars of MAGs are colored by species or unknown

species-level genome bins (uSGBs). Some of the colors are used multiple times, therefore the barplot and the legend is arranged in identical order for convenience.



Supplementary Figure 3. Diagram of the carbon metabolism pathway (KEGG map01200). K00844, K06859, and K15037 were enriched after the IF intervention and labeled in red.



Supplementary Figure 5. Diagram of the bile secretion (KEGG map04976).
K05681 was enriched after the IF intervention and labeled in red.

Supplementary Table 1. General information and clinical indices of the 72 participants.

SubjectID	Time point	Sex	SBP	DBP	AI	GLU	γ-GT	ALT	AST	LDL-C	TG	HDL-C	TC	UA	CREA	Weight	BFR	BMI	Waist
S001	Before	M	119	75	3.2	4.2	41	74.5	29.3	2.35	1.69	0.94	3.95	448	72	97.1	29.6	32.1	105.2
S001	After	M	105	64	1.11	3.9	21	45	22	1.69	0.85	0.92	2.79	500	91	89.8	28.1	29.6	98.7
S003	Before	M	146	91	4.61	4.17	34	38.7	24.7	3.48	4.01	1.14	6.4	479	82	103.2	33.2	35.7	110
S003	After	M	136	89	1.31	3.8	23	50	29	3.4	1.92	1.16	5.63	445	87	95.6	31.9	33.1	104
S004	Before	M	139	90	1.94	4.54	22	19.4	16.6	1.89	0.51	1.08	3.17	359	72	103.5	30.1	33.4	108
S004	After	M	114	73	1.34	3.9	18	29	17	1.61	1.81	1.02	3.17	427	86	98.7	29.6	31.9	101.6
S005	Before	M	127	87	3.55	4.38	28	71.9	34.6	3.39	2.01	1.19	5.41	577	72	88.2	28.9	30.5	107
S005	After	M	124	68	1.39	3.9	16	48	34	2.41	2.19	0.93	4.27	573	79	83.9	28	29	99.4
S006	Before	M	119	75	3.56	4.53	118	44.4	27.2	3.51	1.65	1.16	5.29	443	58	79.3	28	29.5	101
S006	After	M	103	61	1.13	4.6	90	52	24	2.93	1.06	1.19	4.5	436	65	77.2	27.1	28.7	91.4
S007	Before	M	116	70	3.33	4.31	24	19.4	13.7	2.93	1.06	0.99	4.29	392	78	91.7	29.9	31.7	98.2
S007	After	M	105	64	1.28	4.1	17	22	15	2.4	1.53	0.95	4.02	380	76	87.7	29.6	30.3	93.8
S009	Before	M	134	78	3.47	5.55	46	39.2	18.9	3.2	1.3	1.02	4.56	445	73	91	29.1	30	107.8
S009	After	M	114	75	1.13	3.8	27	48	29	2.2	0.71	0.93	3.41	593	82	83.8	26.8	27.7	98.5
S010	Before	M	130	72	4.83	5.46	38	24.1	16.2	3.88	3.4	0.98	5.71	431	84	104	32.1	34.3	108
S010	After	M	119	86	1.19	5	23	17	13	3.62	1.81	0.91	5.2	459	93	98.1	31.1	32.4	107.7
S011	Before	F	106	81	2.76	4.29	22	16.4	16.3	3.39	0.74	1.39	5.23	250	42	71.5	40.5	31.4	97
S011	After	F	108	77	1.21	4.2	17	16	15	2.4	1.18	1.05	3.96	239	48	70	40.2	30.7	96
S012	Before	F	145	99	2.77	4.35	17	8.9	12.4	3.14	1.56	1.33	5.02	415	69	72.7	34.5	27.4	95.5
S012	After	F	133	80	1.09	3.9	12	10	13	2.7	0.85	1.32	4.25	312	70	71.8	34.1	27	92
S013	Before	M	137	84	4	6.36	52	36	24.3	3.6	2.26	1.16	5.8	539	64	73.5	26.2	26.7	99.5
S013	After	M	118	72	1.13	5.3	29	40	34	3.32	0.85	1.38	5.12	509	74	67.5	23.6	24.5	92.7
S014	Before	M	146	103	2.84	4.83	68	86.7	38.2	4.39	2.46	1.77	6.8	534	74	81	29.2	29.4	100.6
S014	After	M	138	89	1.17	4.3	28	100	47	3.11	0.77	1.49	5.14	632	88	73.8	26.1	26.8	93.4
S015	Before	M	155	87	3.44	5.09	20	50.8	25.9	2.67	1.58	1	4.44	455	82	90.8	27.1	28.7	100.3
S015	After	M	128	76	1.27	3.8	15	30	19	2.5	1.37	0.88	4.06	546	79	85.5	24.4	27	94.5
S016	Before	M	173	109	5.52	6.89	87	68	50.8	3.39	5.49	0.92	6	444	68	85.6	28.1	28.3	95.4
S016	After	M	154	95	1.31	4.9	46	43	32	2.41	1.83	0.92	4.08	401	88	79.7	25.4	26.3	91.1
S017	Before	M	127	84	2.15	4.34	73	47.1	27.3	1.64	1.72	1.37	4.32	446	74	82	26.9	28	100
S017	After	M	123	83	1.85	4.1	23	13	15	1.07	1.19	1.33	3.31	488	88	75.4	25.5	25.8	93
S019	Before	F	118	75	2.47	4.96	26	30.4	16.9	3.02	0.97	1.38	4.79	279	56	66.2	36.5	27.2	99
S019	After	F	119	74	1.12	4.7	15	14	14	2.58	0.64	1.21	4.11	340	65	62.9	34.8	25.8	92.9
S021	Before	M	119	67	3.83	4.82	57	39.6	37.3	3.83	3.04	1.22	5.89	615	57	99.3	29.5	31	103.7
S021	After	M	119	73	1.17	4.4	33	39	37	3.55	1.33	1.27	5.41	547	59	96.4	28.4	30.1	101
S022	Before	M	122	87	2.94	4.71	49	89.1	50.5	3.42	2.15	1.35	5.32	361	61	71.7	28.7	28	99.8
S022	After	M	115	79	1.12	4.8	33	63	39	3.37	1.59	1.35	5.11	308	64	69.7	27.6	27.2	93
S023	Before	F	100	72	3.1	4.7	16	28	23.4	3.13	1.17	1.14	4.67	351	46	72.8	37.8	27.4	90.5
S023	After	F	94	61	1.16	4.4	11	19	17	2.48	0.96	0.95	3.83	320	50	69.2	36.5	26	86.5
S025	Before	F	108	73	2.61	5.1	29	33.6	20.1	3.2	0.58	1.41	5.09	395	61	73.3	38.2	27.9	96
S025	After	F	107	72	1.16	5.9	15	21	16	2.64	0.65	1.51	4.56	289	63	70.5	36.4	26.9	90.1
S026	Before	F	136	88	2.86	4.08	23	15.2	16.5	1.31	3.75	1.02	3.94	299	61	61.9	35.4	27.9	91.5
S026	After	F	137	85	1.4	4	14	13	15	2.14	2	1.25	4.24	292	71	58.4	34.2	26.3	87
S027	Before	M	114	63	3.05	4.59	31	22.4	19.5	3.11	1.39	1.18	4.78	355	66	81.6	23.9	26.9	93
S027	After	M	106	67	1.18	4.3	17	16	14	2.23	0.96	0.95	3.59	362	75	75.2	22	24.8	82.8
S031	Before	M	112	67	3.63	4.52	40	105.9	49.9	2.74	2.95	1.14	5.28	507	76	80.8	24.9	26.7	95.8

S031	After	M	107	66	1.27	4.4	15	28	30	2.02	1.2	1.27	3.83	456	89	73.5	23.4	24.3	86.5
S033	Before	F	121	75	1.99	5.24	26	16	16.1	2.88	0.96	1.59	4.75	184	46	71.1	36.3	27.8	94
S033	After	F	130	80	1.19	4	19	16	18	2.27	0.59	1.3	4.01	249	59	66.8	34.7	26.1	88.5
S035	Before	F	97	57	2.74	4.91	16	11.3	13.2	4.16	0.33	1.6	5.99	259	50	79.8	39.3	29.7	89
S035	After	F	98	69	1.16	3.6	11	9	15	3.62	0.66	1.18	5.39	237	61	76.4	38.2	28.4	88.9
S037	Before	M	119	78	2.74	6.06	32	21.9	17.8	3.55	1.24	1.44	5.38	387	83	71.2	25.7	26.1	89.2
S037	After	M	125	79	1.19	4.3	20	19	19	3.02	1.33	1.29	4.89	348	89	69.2	25.6	25.4	84.8
S038	Before	F	122	75	2.97	4.79	37	60	43.1	2.55	2.28	1.16	4.61	618	59	73.2	36.2	26.6	95
S038	After	F	109	73	1.25	4.6	16	36	32	2.05	0.77	1.18	3.75	546	69	68.3	33.8	24.8	88.9
S039	Before	F	123	81	2.52	4.43	17	19.7	15.5	3	1.04	1.39	4.89	345	65	67.7	36.9	27.4	95
S039	After	F	125	95	1.2	3.5	12	16	16	2.38	0.95	1.25	4.1	415	80	61.5	33.2	24.9	86.5
S040	Before	M	136	95	3.13	6.33	38	60.5	38.5	2.99	2.03	1.14	4.71	442	72	86.4	26.2	26.1	103
S040	After	M	125	90	1.18	4.5	23	54	35	2.64	1.22	1.01	4.13	448	88	82.8	24.1	25	94.5
S042	Before	F	140	80	2.77	8.02	18	16.8	17	3.61	1.09	1.46	5.5	348	46	58.5	33.2	25.6	89.5
S042	After	F	132	84	1.11	6.1	11	11	18	3.82	0.68	1.43	5.67	325	53	55	29.6	24.1	88.8
S044	Before	F	114	65	1.84	4.67	13	9.4	12.1	2.56	0.5	1.52	4.31	300	51	68.6	34.4	25.2	88.5
S044	After	F	118	75	1.19	3.8	10	16	20	2.42	0.59	1.35	4.22	360	54	63	32.7	23.1	83.8
S046	Before	F	121	81	1.78	4.64	15	15.2	21.5	3.15	1.22	2.05	5.69	218	62	58.9	34.3	24.2	92.5
S046	After	F	128	78	1.09	4.5	13	19	19	3.07	0.58	1.88	5.22	237	61	56.4	32.3	23.2	88.2
S047	Before	M	151	113	4.05	4.16	28	14.7	17.5	4.54	1.08	1.26	6.36	618	87	69.4	22.4	24	88.5
S047	After	M	123	87	1.19	3.5	19	21	22	2.4	0.82	1.37	4.22	711	90	64.7	21.5	22.4	79.5
S048	Before	F	116	74	2.56	5.22	21	19.5	15.6	2.53	1.57	1.21	4.31	299	57	69.3	36.9	26.4	96
S048	After	F	111	76	1.2	4.3	17	16	15	2.22	1.2	1.07	3.73	263	65	66.4	34.7	25.3	94.7
S050	Before	M	93	56	3.19	5.32	34	16.5	15	2.71	2.89	1.13	4.74	422	76	72.4	23.4	26	87
S050	After	M	111	66	1.22	4.5	27	15	18	2.39	1.72	1.08	4	343	75	72	23.9	25.8	82.5
S052	Before	F	111	69	2.5	4.64	21	12.9	18.2	2.07	1.26	1.04	3.64	227	49	65.2	33	24.2	90.5
S052	After	F	100	72	1.17	4.1	14	9	14	2.11	0.54	1.09	3.55	300	56	60.5	30.6	22.5	85.2
S054	Before	M	121	70	3.26	4.69	35	67.8	24.9	4.03	0.57	1.34	5.71	389	76	74.2	21.3	24.8	93
S054	After	M	97	62	1.16	3.6	19	30	21	2.75	0.67	1.2	4.39	408	87	68.1	19.6	22.8	86.8
S058	Before	F	116	71	1.45	4.51	26	33.1	24.9	1.71	0.99	1.54	3.77	238	40	63.3	33.2	24.7	89
S058	After	F	108	61	1.25	4.3	19	25	16	1.62	0.71	1.17	3.19	232	42	62.5	32.8	24.4	85.8
S059	Before	F	105	67	2.25	3.87	10	10.3	16.4	2.81	1.2	1.55	5.04	273	56	58.1	33.5	23.6	88
S059	After	F	102	65	1.37	4	7	11	16	2.22	1.37	1.39	4.43	243	56	56.7	33	23	85.9
S060	Before	F	123	77	2.46	4.46	15	22.8	16.9	3.61	0.99	1.64	5.67	464	62	76.7	37.6	26.9	92.5
S060	After	F	113	76	1.15	3.9	10	17	15	2.53	0.74	1.31	4.21	358	69	71.7	34.9	25.1	90.6
S067	Before	M	119	67	2.23	4.1	26	21.6	15.4	2.09	0.58	1.06	3.42	374	70	84.5	26.7	28.2	91.2
S067	After	M	119	64	1.18	3.8	22	23	16	2.05	0.47	1.01	3.43	364	66	80.6	25	26.9	88
S072	Before	M	97	69	2.36	4.03	26	15.5	16.6	2.85	1.42	1.43	4.81	370	76	60.8	20.5	22.6	79.4
S072	After	M	101	77	1.24	4.4	17	10	13	2.62	1.39	1.41	4.66	337	81	59.2	20.8	22	75.4
S073	Before	F	128	78	2.05	4.47	16	15.4	16.7	2.16	1.7	1.34	4.09	342	47	56.1	32.9	23.1	86.5
S073	After	F	114	71	1.21	4.8	13	10	14	2.38	1.09	1.43	4.32	352	60	52.6	28.7	21.6	82.1
S074	Before	F	119	79	2.19	4.58	15	16.6	18.6	3.24	1.21	1.62	5.16	304	56	62	33	23.6	91
S074	After	F	109	65	1.14	4.1	9	12	18	2.21	0.6	1.34	3.86	303	58	59.8	29.1	22.8	84.6
S077	Before	M	129	75	2.3	4.32	15	17.3	18.6	2.43	1.17	1.23	4.06	448	72	76.8	20.8	23.2	87
S077	After	M	125	81	1.18	4	13	12	15	2.41	0.84	1.12	3.97	402	80	73.9	21.1	22.3	82.1
S078	Before	M	128	82	3.33	4.35	42	46.8	26.2	2.48	2.37	1.05	4.55	561	81	72.9	20	23	85.6
S078	After	M	106	79	1.21	4.1	18	20	15	1.97	0.81	1.03	3.41	508	87	68	18.1	21.5	79.6

S079	Before	F	93	57	2.75	3.64	10	11.2	17	3.7	1.11	1.53	5.74	290	51	56.3	33.5	22.8	79
S079	After	F	92	54	1.13	4.2	8	8	16	3.39	0.64	1.31	5.13	267	54	54.6	29.2	22.1	78.2
S080	Before	F	113	73	2.13	5.32	13	13.8	16.4	2.53	0.97	1.38	4.32	390	69	56.8	33.7	23.6	86
S080	After	F	99	72	1.15	5.2	11	9	15	2.73	0.72	1.3	4.45	376	77	53.9	30.7	22.4	80
S081	Before	F	112	71	2.02	4.72	12	13.6	14.5	2.86	0.81	1.67	5.04	307	48	55.5	27.7	22.8	88.5
S081	After	F	100	57	1.17	4.5	15	18	18	1.86	0.47	1.56	3.73	252	57	53.1	27.2	21.8	80.4
S083	Before	F	108	69	2.35	4.34	24	25.2	17.3	3.18	0.76	1.53	5.12	286	46	64.5	33.9	23.1	88.5
S083	After	F	104	72	1.15	4.1	11	17	21	2.54	0.62	1.38	4.31	291	61	60.5	30.2	21.7	85.9
S084	Before	M	133	80	2.29	4.73	42	31.3	20.2	3.07	0.7	1.54	5.06	397	72	65.5	22.3	22.9	88
S084	After	M	135	81	1.15	4.5	20	20	19	2.46	0.72	1.42	4.24	337	75	61.4	19.6	21.5	75.8
S085	Before	F	88	64	3.67	4.76	12	13.6	12.7	2.87	1.34	0.97	4.53	217	53	62.6	34.1	23.6	85
S085	After	F	98	69	1.28	4.4	11	10	14	2.4	1.89	0.97	4.05	209	60	60.2	28.7	22.6	80.7
S086	Before	F	136	82	2.02	4.42	22	19.1	17	1.97	0.67	1.22	3.68	361	57	66.7	34.2	23.3	84
S086	After	F	114	72	1.22	3.6	17	16	12	1.87	0.57	1.24	3.52	373	64	63.2	30.5	22.1	80.3
S087	Before	M	115	65	2.1	3.92	27	15.8	15.1	3.17	0.87	1.66	5.14	394	93	67.5	21.8	24.2	82.8
S087	After	M	119	67	1.07	4	20	16	16	3	0.61	1.35	4.56	417	84	65	21.2	23.3	81.7
S088	Before	F	113	65	1.4	4.51	15	17.3	31.6	1.45	0.38	1.31	3.15	268	54	57.4	32.9	23	84
S088	After	F	97	65	1.22	3.9	17	24	39	1.53	0.52	1.18	3.04	295	66	53.9	27.3	21.6	79.7
S089	Before	F	119	67	3.11	4.88	20	47.1	30	3.15	2.53	1.41	5.79	357	49	61.9	28	22.2	88.5
S089	After	F	112	68	1.47	5.2	15	34	29	2.15	1.72	1.32	4.47	288	48	60.1	27.9	21.8	84.8
S091	Before	F	91	62	2.03	4.47	15	13.3	13.5	2.93	0.51	1.6	4.85	219	42	55.5	28.1	22	81
S091	After	F	97	59	1.08	4.3	12	12	14	2.89	0.61	1.64	4.77	271	54	54	26.6	21.4	78.3
S092	Before	F	104	66	1.67	4.71	15	6.5	11.9	2.6	0.38	1.81	4.83	279	57	51.2	29	22.2	75
S092	After	F	107	68	1.15	4.3	11	7	10	2.57	0.6	1.55	4.51	354	62	48.5	28.1	21	67.9
S093	Before	M	114	60	2.65	4.13	25	52.9	28.5	2.7	0.85	1.28	4.67	422	66	65.8	21.1	23.9	83
S093	After	M	112	66	1.16	3.5	17	16	16	2.29	0.72	1.25	3.91	397	84	60.4	20.1	21.9	77.6
S094	Before	F	113	75	2.01	4.69	13	12.3	16.3	2.48	0.46	1.45	4.37	327	52	57	31.6	24	81
S094	After	F	134	88	1.28	4.6	10	18	19	1.78	0.53	1.13	3.4	327	62	52.9	29.5	22.3	74.1
S095	Before	M	122	63	2.17	5.06	16	14.3	20.7	3.28	1.28	1.72	5.46	368	85	74	19.9	22.6	76.5
S095	After	M	119	71	0.87	4.5	11	15	25	2.54	0.83	1.79	3.99	436	102	68.9	18.2	21	72
S096	Before	M	132	83	3.48	4.43	33	21.4	21.6	3.24	1.3	1.15	5.15	319	69	69.8	20.4	22	85
S096	After	M	126	80	1.14	4.3	21	11	15	3.1	1.23	1.15	4.69	321	80	66.6	18	21	81.2
S098	Before	M	116	64	2.5	3.69	20	24.3	20.1	2.34	2.76	1.25	4.37	465	72	68.7	18.5	22.2	80
S098	After	M	116	72	1.14	3.3	16	12	13	2.48	0.81	1.33	4.15	393	77	65.7	17.6	21.2	73.5
S099	Before	M	93	62	4.36	4.37	18	9.4	15	4.59	1.67	1.18	6.33	289	78	62.8	20.3	22.5	81.3
S099	After	M	112	79	1.12	4.4	15	8	14	4.76	1.36	1.09	6.42	274	84	60.4	19.1	21.6	76.3
S100	Before	F	110	73	1.63	4.13	12	15.4	15.8	2.84	0.3	2.05	5.39	261	56	53.9	29.7	22.4	79
S100	After	F	106	72	1.17	4.3	11	8	16	2.78	0.9	1.63	4.89	201	61	51.7	28.5	21.5	78.2
S101	Before	F	122	74	2.52	4.41	15	11.6	14.4	2.53	0.54	1.16	4.08	215	52	61.2	29.3	21.4	84
S101	After	F	112	66	1.14	4.5	13	8	10	2.58	0.61	1.09	4.04	229	57	57.7	27.4	20.2	75.7
S102	Before	F	121	71	2.71	7.11	15	18	15.9	3.09	0.99	1.4	5.2	294	46	52.3	29.7	22.3	84.5
S102	After	F	111	71	1.19	4.7	13	14	14	2.4	0.8	1.2	4.06	301	53	49.6	27.7	21.2	81.9
S103	Before	F	110	71	1.93	4.23	14	11.7	15.6	2.72	0.89	1.61	4.71	268	65	53.5	34.5	24.1	83
S103	After	F	107	66	1.25	4.1	10	17	19	2.31	0.66	1.52	4.41	264	67	51.2	32.8	23.1	79.4
S105	Before	F	100	67	1.74	3.93	18	12	16.9	2.93	0.71	1.88	5.16	264	53	54.8	34.4	23.7	85
S105	After	F	104	69	1.12	4.1	12	7	13	2.83	0.66	1.53	4.69	289	59	54	34.1	23.4	82.9
S106	Before	F	117	76	1.33	4.87	30	45.8	39.7	2.21	0.19	1.92	4.47	291	37	62.3	30.5	22.6	87.5

S106	After	F	100	61	1.14	4.9	16	12	18	2.44	0.53	1.67	4.44	266	44	60.7	29.1	22	81.4
S108	Before	F	120	80	3.18	4.66	21	40	20.4	3.87	1.24	1.37	5.73	275	57	52.4	29.5	22.4	86
S108	After	F	125	82	1.12	4.6	14	20	15	3.46	1.03	1.33	5.19	316	63	49.2	27.3	21	79.9
S110	Before	F	101	65	1.33	4.46	19	13.4	13.7	2.06	0.43	1.79	4.17	283	53	56.8	27.2	21.4	80.5
S110	After	F	109	70	1.16	4.9	15	15	15	2.76	0.58	1.87	5.08	313	57	54.9	27.1	20.7	72.9
Paired Wilcoxon rank sum test																			
	Adjusted <i>p</i>		5.60E-05	8.92E-02	7.20E-13	6.17E-08	1.22E-12	6.58E-05	6.76E-03	6.94E-09	3.30E-06	1.72E-06	6.37E-11	5.23E-01	2.69E-11	7.20E-13	1.50E-12	7.20E-13	7.20E-13
	Difference in average		-5.4306	-5.4306	-1.5283	-0.4385	-10.0000	-7.3139	-2.1333	-0.4004	-0.4339	-0.0983	-0.6297	-2.1528	7.0694	-3.6639	-1.7403	-1.3236	-5.0875

Supplementary Table 2. Change in relative abundances of MAGs in the 72 participants.

MAG ^a	Genus	Species	Before (Mean)	After (Mean)	Adjusted p
S100C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	7.30008E-05	0.000372234	0.01598741
S63C7593	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.002240079	0.001364009	0.002467678
S57C738	<i>Fusicatenibacter</i>	<i>Fusicatenibacter saccharivorans</i>	1.95296E-05	0.000161984	0.011765457
S63C1476	<i>Bacteroides</i>	<i>Bacteroides</i> sp900066265	6.87175E-05	0.000211669	0.001899874
S61C36565	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0.000235607	0.00025404	0.011970784
S59C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	2.62116E-05	6.78176E-05	0.01353257
S61C2353	<i>Bacteroides</i>	<i>Bacteroides intestinalis_A</i>	4.30053E-05	0.001511186	0.003984676
S64C7241	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.000455403	0.000154337	0.001514674
S64C86	<i>Bacteroides</i>	<i>Bacteroides caccae</i>	0.00654959	0.011907853	0.000220776
S65C6386	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.000240546	0.002414439	0.000332228
S66C8800	<i>Bacteroides</i>	<i>Bacteroides salyersiae</i>	2.03748E-05	0.000148508	0.032801047
S112C939	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0.000391355	0.00072219	0.001292565
S113C2095	<i>Bacteroides</i>	<i>Bacteroides cellulosilyticus</i>	0.000298633	0.000602805	0.003249089
S113C22280	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.000807915	0.001438825	0.004211167
S68C2198	<i>Bacteroides</i>	<i>Bacteroides cutis</i>	3.96124E-05	5.0643E-05	0.028824494
S68C9412	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.000873301	0.000727079	0.00083099
S69C13350	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.00029814	0.000132135	0.003101822
S71C14073	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0.000278425	0.000205905	0.002059014
S71C724	<i>Bacteroides</i>	<i>Bacteroides uniformis</i>	0.00233121	0.004463026	0.002467678
S73C1476	<i>Bacteroides</i>	<i>Bacteroides</i> sp900066265	0.000159716	0.000220412	0.023446809
S73C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0.000374606	0.00036184	0.014780472
S73C6386	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.002220366	0.00733576	0.000224558
S114C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0.000189222	0.000183712	0.017564702
S75C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0.000891896	0.001272442	0.002166136
S76C6145	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.000817594	0.001612255	0.000543004
S77C368	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp000435655	6.69022E-05	1.57933E-05	0.027193958
S79C2095	<i>Bacteroides</i>	<i>Bacteroides cellulosilyticus</i>	0.000157734	0.000233919	0.024506996
S80C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0.000135423	0.000220893	0.027997835
S116C6484	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.005619072	0.001890015	0.024506996
S82C209	<i>Coprococcus</i>	<i>Coprococcus</i> sp900066115	0.000133634	0.000102187	0.01598741
S83C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0.000172778	0.000188524	0.026402514
S84C2095	<i>Bacteroides</i>	<i>Bacteroides cellulosilyticus</i>	7.77331E-05	0.000396154	0.003993284
S85C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0.000135706	0.00016078	9.39705E-05
S85C724	<i>Bacteroides</i>	<i>Bacteroides uniformis</i>	0.000846852	0.001689871	0.023873305
S86C368	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp000435655	0.000494381	0.000187312	0.015569281
S86C939	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0.001043245	0.001333251	0.009138974
S88C738	<i>Fusicatenibacter</i>	<i>Fusicatenibacter saccharivorans</i>	1.50876E-05	4.19088E-05	0.005105991
S89C11878	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.000905648	0.000644703	0.00027162
S89C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0.000108849	0.000155049	0.032801047
S90C2095	<i>Bacteroides</i>	<i>Bacteroides cellulosilyticus</i>	6.93244E-05	0.000164519	0.030631855
S91C1476	<i>Bacteroides</i>	<i>Bacteroides</i> sp900066265	8.41216E-05	0.000179355	0.006147856
S96C371	<i>Bacteroides</i>	<i>Bacteroides intestinalis</i>	0.00012641	0.000799134	0.045592178
S98C6141	<i>Bacteroides</i>	<i>Bacteroides ovatus</i>	0.010495857	0.013103654	0.001955443
S98C7783	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.000686913	0.000110806	0.000423899
S9C368	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp000435655	6.04987E-05	3.52581E-05	0.023873305
S119C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	8.95153E-05	0.000272064	0.001292565
S11C428	<i>Enterocloster</i>	<i>Enterocloster</i> sp900541315	0.000119596	5.15932E-05	0.027401063
S11C6386	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.000349389	0.000772887	0.00083099
S11C7921	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0.000265232	0.000181577	0.001000884
S11C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0.000244555	0.000343175	0.02736414
S121C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0.000256197	0.000636408	0.01598741
S122C60	<i>Bacteroides</i>	<i>Bacteroides salyersiae</i>	0.0011792	0.001407624	0.012505363
S122C6386	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.002714836	0.002954889	0.001514674
S101C209	<i>Coprococcus</i>	<i>Coprococcus</i> sp900066115	0.00039677	3.57521E-05	0.044348491
S101C6157	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.002200752	0.004235066	0.004605444
S123C738	<i>Fusicatenibacter</i>	<i>Fusicatenibacter saccharivorans</i>	9.34474E-05	0.000305849	0.034481088
S124C6145	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.000126439	0.000546555	9.39705E-05
S125C1476	<i>Bacteroides</i>	<i>Bacteroides</i> sp900066265	0.000340917	0.001146361	0.004848458
S126C6145	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.000241494	0.000312942	8.02525E-05
S127C6386	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.00053232	0.002331551	0.000306118
S127C724	<i>Bacteroides</i>	<i>Bacteroides uniformis</i>	0.000851665	0.001169703	0.021397394
S129C9914	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.000734589	0.000443707	0.000520153

S130C6367	<i>Bacteroides</i>	<i>Bacteroides ovatus</i>	0.007759963	0.010241539	0.00083099
S130C724	<i>Bacteroides</i>	<i>Bacteroides uniformis</i>	0.000674502	0.003276173	0.024506996
S134C2353	<i>Bacteroides</i>	<i>Bacteroides intestinalis_A</i>	0.000416015	0.001581104	0.001865064
S135C9805	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.000728805	0.000284957	0.00083099
S13C6145	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.001045013	0.002072799	0.000118135
S140C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0.000192642	0.00074876	0.005199186
S140C371	<i>Bacteroides</i>	<i>Bacteroides intestinalis</i>	0.000332237	0.000377949	0.013568988
S142C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0.00028109	0.000352233	0.003173116
S143C2547	<i>Parabacteroides</i>	<i>Parabacteroides goldsteinii</i>	3.37722E-05	0.000104252	0.047609565
S145C2192	<i>Bacteroides</i>	<i>Bacteroides uniformis</i>	0.000334108	0.000564668	0.02059654
S145C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0.000382558	0.000490444	0.011253409
S146C13190	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.0009278	0.000240845	0.000860599
S147C8348	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0.000562179	0.000338112	0.010509492
S149C6289	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0.000527061	0.000395656	0.007426627
S149C738	<i>Fusicatenibacter</i>	<i>Fusicatenibacter saccharivorans</i>	3.4942E-05	0.000103427	0.031890773
S14C15	<i>Bacteroides</i>	<i>Bacteroides faecis</i>	0.000432375	0.000768701	0.012505363
S14C428	<i>Enterocloster</i>	<i>Enterocloster</i> sp900541315	0.000244502	0.000165891	0.006827846
S104C6386	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.000227512	0.000590935	0.000857693
S153C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0.000268873	0.000389075	0.031874666
S154C70621	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0.000173254	0.000142945	0.04697612
S154C738	<i>Fusicatenibacter</i>	<i>Fusicatenibacter saccharivorans</i>	2.50581E-05	0.000256399	0.038774982
S155C9316	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.000620643	0.000312367	0.000857693
S156C312	<i>Bacteroides</i>	<i>Bacteroides bouchesdurhonensis</i>	7.27831E-05	0.000209818	0.00091452
S156C724	<i>Bacteroides</i>	<i>Bacteroides uniformis</i>	0.000138511	0.000247473	0.032801047
S157C6561	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0.0005472	0.000441301	0.023594097
S158C2095	<i>Bacteroides</i>	<i>Bacteroides cellulosilyticus</i>	2.72679E-05	0.000520582	0.003828378
S158C6158	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.00176407	0.000200427	0.00083099
S15C6386	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.000210368	0.001203899	0.000118135
S16C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0.000160456	0.000240865	0.015526238
S16C6386	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.000455895	0.000776004	0.001422841
S17C18344	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0.000370294	0.000314641	0.001865064
S18C209	<i>Coprococcus</i>	<i>Coprococcus</i> sp000154245	0.000184516	2.74758E-05	0.015830748
S22C9985	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.001240043	0.000614186	0.00083099
S24C6145	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.000880596	0.003738895	9.39705E-05
S25C738	<i>Fusicatenibacter</i>	<i>Fusicatenibacter saccharivorans</i>	0.000111949	0.000441073	0.048855429
S28C8083	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0.000428259	0.000277203	0.00494398
S2C209	<i>Coprococcus</i>	<i>Coprococcus</i> sp900066115	0.000257891	0.000140004	0.028805886
S30C1339	<i>Clostridium</i>	<i>Clostridium paraputrificum</i>	4.34402E-05	9.81546E-07	0.012700445
S105C8255	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.000558803	8.49612E-05	0.001595066
S109C428	<i>Enterocloster</i>	<i>Enterocloster</i> sp900541315	0.000162154	0.000118571	0.022370818
S30C368	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp000435655	8.97851E-05	1.59082E-05	0.003173116
S30C69	<i>Clostridium</i>	<i>Clostridium</i> sp900540255	5.19815E-05	1.2017E-05	0.004605444
S31C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	6.77988E-05	0.000259573	0.000423899
S33C13678	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.001345568	0.000177245	0.001514674
S33C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	6.85096E-05	0.000286808	0.001029532
S33C371	<i>Bacteroides</i>	<i>Bacteroides intestinalis</i>	5.19568E-05	0.000279782	0.042179859
S33C738	<i>Fusicatenibacter</i>	<i>Fusicatenibacter saccharivorans</i>	4.6572E-05	0.000141261	0.008976897
S34C209	<i>Coprococcus</i>	<i>Coprococcus</i> sp900066115	0.000117361	6.14033E-06	0.024506996
S34C2353	<i>Bacteroides</i>	<i>Bacteroides intestinalis_A</i>	2.84487E-05	0.000219534	0.020562582
S34C6145	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0.000347807	0.00138524	0.00027162
S34C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0.000224986	0.000433849	0.006827846
S35C9678	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.001300415	0.001533301	0.005466978
S37C6578	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0.000417835	0.000239768	0.004165835
S39C428	<i>Enterocloster</i>	<i>Enterocloster</i> sp900541315	0.000840649	0.000315495	0.028805886
S3C428	<i>Enterocloster</i>	<i>Enterocloster</i> sp900541315	0.000362621	0.000119693	0.022656173
S109C9291	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0.000281242	0.000212411	0.00297912
S10C7613	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0.000237152	0.000171296	0.002467678
S40C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	2.30399E-05	9.32745E-05	0.030631855
S40C2353	<i>Bacteroides</i>	<i>Bacteroides intestinalis_A</i>	0.000150006	0.001327031	0.001549156
S41C69	<i>Clostridium</i>	<i>Clostridium</i> sp900540255	3.53119E-05	1.46166E-05	0.011201979
S42C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0.000535295	0.001907784	0.004605444
S42C209	<i>Coprococcus</i>	<i>Coprococcus</i> sp900066115	0.000538016	4.70344E-06	0.004211167
S43C738	<i>Fusicatenibacter</i>	<i>Fusicatenibacter saccharivorans</i>	1.41503E-05	5.87168E-05	0.01598741
S44C50442	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0.000891869	0.000100217	0.001029532

S44C69	<i>Clostridium</i>	<i>Clostridium</i> sp900540255	0.000315602	9.35124E-06	0.002040661
S45C1769	<i>Bacteroides</i>	<i>Bacteroides</i> thetaiotaomicron	0.000398152	0.002203307	0.000166019
S46C1769	<i>Bacteroides</i>	<i>Bacteroides</i> thetaiotaomicron	3.45723E-05	6.53593E-05	0.008976897
S46C724	<i>Bacteroides</i>	<i>Bacteroides</i> uniformis	0.000135798	0.000346591	0.027997835
S48C12631	<i>Agathobacter</i>	<i>Agathobacter</i> rectalis	0.000354608	0.000142046	0.006117832
S49C2095	<i>Bacteroides</i>	<i>Bacteroides</i> cellulosilyticus	4.82265E-05	0.00015749	0.008743905
S49C2192	<i>Bacteroides</i>	<i>Bacteroides</i> uniformis	7.19921E-05	0.000362805	0.01984461
S49C368	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp000435655	3.22759E-05	1.00957E-05	0.008976897
S49C835	<i>Parabacteroides</i>	<i>Parabacteroides</i> merdae	0.000169005	0.000265928	0.019853687
S50C6145	<i>Parabacteroides</i>	<i>Parabacteroides</i> distasonis	0.000435141	0.001897089	0.000118135
S50C6484	<i>Agathobacter</i>	<i>Agathobacter</i> rectalis	0.003896331	0.001921642	0.012334314
S110C6247	<i>Agathobacter</i>	<i>Agathobacter</i> rectalis	0.001873402	0.002099307	0.014571498
S110C738	<i>Fusicatenibacter</i>	<i>Fusicatenibacter</i> saccharivorans	7.74035E-05	0.000135513	0.024506996
S111C428	<i>Enterocloster</i>	<i>Enterocloster</i> sp900541315	0.000106249	3.48001E-05	0.027706354
S111C6145	<i>Parabacteroides</i>	<i>Parabacteroides</i> distasonis	0.000146226	0.000753269	8.02525E-05
S50C738	<i>Fusicatenibacter</i>	<i>Fusicatenibacter</i> saccharivorans	0.000183434	0.000374836	0.047960996
S52C18268	<i>Agathobacter</i>	<i>Agathobacter</i> rectalis	0.000632326	0.000156832	0.003173116
S52C209	<i>Coprococcus</i>	<i>Coprococcus</i> sp900066115	0.000187145	5.06298E-06	0.030631855
S53C2095	<i>Bacteroides</i>	<i>Bacteroides</i> cellulosilyticus	7.32796E-05	0.000939288	0.012497911
S55C1769	<i>Bacteroides</i>	<i>Bacteroides</i> thetaiotaomicron	8.79889E-05	0.000291099	0.002675355
S57C6145	<i>Parabacteroides</i>	<i>Parabacteroides</i> distasonis	0.000462064	0.000523968	0.000320384

^aOnly 147 MAGs with annotation at the species level are listed.

Supplementary Table 3. Correlation coefficient between abundance of MAGs and phenotype.

MAG	Genus	Species	DBP	AI	ALT	LDL-C	UA	Weight	BFR	Waist
S100C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0	0	0	0	0	0.029628574	0	0
S63C1476	<i>Bacteroides</i>	<i>Bacteroides</i> sp900066265	0	-0.0752223	0	-0.09219765	0	0	0	0
S61C36565	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0	-0.00134592	0	-0.03275658	0	0	0	0
S61C2353	<i>Bacteroides</i>	<i>Bacteroides intestinalis_A</i>	0	-0.00313635	0	-0.0253936	0	0	0	0
S61C22	<i>Alistipes_A</i>	<i>Alistipes_A</i> indistinctus	0	0	0	-0.01910435	0	0	0	0
S63C7593	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	0	0	-0.03145269	0	0	0	0
S64C7241	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	0	0	-0.00246821	0	0	0	0
S64C86	<i>Bacteroides</i>	<i>Bacteroides caccae</i>	0	-0.00977378	0	0	0	0	0	0
S65C6386	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0	-0.0569159	0	-0.06137491	0	0	0	0
S66C8800	<i>Bacteroides</i>	<i>Bacteroides salyersiae</i>	0	-0.00130977	0	-0.07272683	0	0	-0.090159	0
S68C1778	<i>Alistipes</i>	<i>Alistipes onderdonkii</i>	0	0	0	-0.00790241	0	0	0	0
S112C939	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0	-0.07217073	0	-0.08362431	0	0	0	0
S113C22280	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	-0.00153094	0	-0.0558914	0	0	0	0
S68C2198	<i>Bacteroides</i>	<i>Bacteroides cutis</i>	0	-0.13496001	0	-0.14330746	0	0	0	0
S68C9412	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	0	0	-0.0272511	0	0	0	0
S69C13350	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	0	0	-0.02948632	0	0	0	0
S71C14073	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0	-0.00926522	0	-0.04029467	0	0	0	0
S71C724	<i>Bacteroides</i>	<i>Bacteroides uniformis</i>	0	-0.01492262	0	-0.05186833	0	0	0	0
S73C1476	<i>Bacteroides</i>	<i>Bacteroides</i> sp900066265	0	-0.1297162	0	-0.09399501	0	0	0	0
S73C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0	0	0	-0.04402337	0	0	0	0
S73C6386	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0	-0.0315334	0	-0.03693092	0	0	0	0
S114C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0	0	0	-0.00785012	0	0	0	0
S75C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0	0	0	-0.03988984	0	0	0	0
S76C1778	<i>Alistipes</i>	<i>Alistipes onderdonkii</i>	0	-0.07529628	0	-0.06322517	0	0	0	0
S76C6145	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0	-0.15134838	0	-0.09408403	0	-0.27310219	0	0
S77C130	<i>Phocaeicola</i>	<i>Phocaeicola coprocola</i>	0	-0.00981577	0	-0.04723229	0	0	0	0
S80C290	<i>Odoribacter</i>	<i>Odoribacter splanchnicus</i>	0	-0.04512286	0	-0.02425355	0	0	0	0
S80C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0	0	0	0	0	0.123861048	0	0
S81C740	<i>Dorea</i>	<i>Dorea longicatena</i>	0	0	0	0	0	-0.79026557	0	0
S116C6484	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	0	0	-0.01266994	0	0	0	0
S82C8627	<i>Zag111</i>	<i>Zag111</i> sp002103105	0	0	0.16494899	-0.02950975	0.143987478	0	0	0
S83C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0	0	0	0	0	0.844389919	0	0.376745
S85C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0	-0.0154052	0	-0.05050548	0	0	0	0
S85C724	<i>Bacteroides</i>	<i>Bacteroides uniformis</i>	0	-0.07128656	0	-0.04565196	0	0	0	0
S86C368	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp000435655	0	-0.01484974	0	-0.03581484	0	0	0	0
S86C939	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0	-0.12512522	0	-0.0888205	0	0	0	0
S89C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0	0	0	0	0.186400136	0	0	0
S117C724	<i>Bacteroides</i>	<i>Bacteroides uniformis</i>	0	-0.12820783	0	-0.08725764	0	0	0	0

S118C570	<i>Turicibacter</i>	<i>Turicibacter</i> sp001543345	0	-0.02689058	0	-0.03280738	0	0	0	0
S91C1476	<i>Bacteroides</i>	<i>Bacteroides</i> sp900066265	0	-0.10327681	0	-0.08718838	0	0	0	0
S98C7783	<i>Agathobacter</i>	<i>Agathobacter</i> rectalis	0	0	0	-0.04509489	0	0	0	0
S119C1769	<i>Bacteroides</i>	<i>Bacteroides</i> thetaiotaomicron	0	-0.00111176	0	-0.04276217	0	0	0	0
S11C6386	<i>Parabacteroides</i>	<i>Parabacteroides</i> distasonis	0	-0.00081069	0	-0.04494605	0	0	0	0
S11C7921	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0	-0.00206878	0	-0.03368452	0	0	0	0
S121C835	<i>Parabacteroides</i>	<i>Parabacteroides</i> merdae	0	-4.7215E-05	0	-0.02023497	0	0	0	0
S122C60	<i>Bacteroides</i>	<i>Bacteroides</i> salyersiae	0	-0.1358457	0	-0.08031518	0	0	0	0
S122C6386	<i>Parabacteroides</i>	<i>Parabacteroides</i> distasonis	0	-0.07704318	0	-0.07240177	0	0	0	0
S123C253	<i>Alistipes</i>	<i>Alistipes</i> shahii	0	-0.03725751	0	-0.03354708	0	0	0	0
S123C54	<i>Anaerobutyricum</i>	<i>Anaerobutyricum</i> hallii_A	0	0	0	0	0.369425786	0	0	0
S101C6157	<i>Parabacteroides</i>	<i>Parabacteroides</i> distasonis	0	-0.11918935	0	-0.07422443	0	0	0	0
S123C738	<i>Fusicatenibacter</i>	<i>Fusicatenibacter</i> saccharivorans	0	-0.01249221	0	-0.06246666	0	0	0	0
S124C6145	<i>Parabacteroides</i>	<i>Parabacteroides</i> distasonis	0	0	0	-0.05219062	0	0	0	0
S125C1476	<i>Bacteroides</i>	<i>Bacteroides</i> sp900066265	0	-0.04584126	0	-0.08037685	0	0	0	0
S126C6145	<i>Parabacteroides</i>	<i>Parabacteroides</i> distasonis	0	-0.03762479	0	-0.07159355	0	0	0	0
S127C6386	<i>Parabacteroides</i>	<i>Parabacteroides</i> distasonis	0	-0.04891208	0	-0.06191352	0	0	0	0
S127C724	<i>Bacteroides</i>	<i>Bacteroides</i> uniformis	0	-0.09130372	0	-0.0708963	0	0	0	0
S128C334	<i>Blautia_A</i>	<i>Blautia_A</i> sp000436615	0	-0.00058872	0	0	0	0	0	0
S129C9914	<i>Agathobacter</i>	<i>Agathobacter</i> rectalis	0	0	0	-0.02484294	0	0	0	0
S130C724	<i>Bacteroides</i>	<i>Bacteroides</i> uniformis	0	-0.05522488	0	-0.04133707	0	0	0	0
S133C442	<i>Roseburia</i>	<i>Roseburia</i> intestinalis	0	0	0	0	-0.17034607	0	0	0
S134C2353	<i>Bacteroides</i>	<i>Bacteroides</i> intestinalis_A	0	-0.08540159	0	-0.08463531	0	0	0	0
S135C9805	<i>Agathobacter</i>	<i>Agathobacter</i> rectalis	0	0	0	-0.00640123	0	0	0	0
S13C6145	<i>Parabacteroides</i>	<i>Parabacteroides</i> distasonis	0	-0.08074366	0	-0.06740355	0	0	0	0
S140C1769	<i>Bacteroides</i>	<i>Bacteroides</i> thetaiotaomicron	0	-0.02253206	0	-0.06316493	0	0	0	0
S140C33	<i>Erysipelatoclostridium</i>	<i>Erysipelatoclostridium</i> ramosum	0	-0.04858637	0	-0.08475725	0	0	0	0
S142C1769	<i>Bacteroides</i>	<i>Bacteroides</i> thetaiotaomicron	0	-0.00189081	0	-0.05009186	0	0	0	0
S143C2547	<i>Parabacteroides</i>	<i>Parabacteroides</i> goldsteinii	0	0	0	-0.00757721	0	0	0	0
S145C2192	<i>Bacteroides</i>	<i>Bacteroides</i> uniformis	0	-0.10694619	0	-0.08847773	0	0	0	0
S145C835	<i>Parabacteroides</i>	<i>Parabacteroides</i> merdae	0	-0.0016839	0	-0.02785158	0	0	0	0
S146C13190	<i>Agathobacter</i>	<i>Agathobacter</i> rectalis	0	0	0	-0.01542589	0	0	0	0
S147C146	CAG-180	CAG-180 sp000432435	0.12144194	0	0	0	0.173277899	0.425152706	0	0.300995
S147C8348	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0	-4.7782E-05	0	-0.01796317	0	0	0	0
S149C6289	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0	-0.00045434	0	-0.02431822	0	0	0	0
S149C738	<i>Fusicatenibacter</i>	<i>Fusicatenibacter</i> saccharivorans	0	0	0	0	0.224848184	0	0.191455	
S14C15	<i>Bacteroides</i>	<i>Bacteroides</i> faecis	0	-0.0676851	0	-0.08239933	0	0	0	0
S14C1777	<i>Allisonella</i>	<i>Allisonella</i> histaminiformans	0	0	0	0	0	-0.177697	0	
S14C428	<i>Enterocloster</i>	<i>Enterocloster</i> sp900541315	0	0	0	-0.02607857	0	0	0	0
S104C6386	<i>Parabacteroides</i>	<i>Parabacteroides</i> distasonis	0	-0.07168522	0	-0.07994208	0	0	0	0

S153C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0	0	0	-0.01952635	0	0	0	0
S154C70621	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0	-0.00615216	0	-0.04107949	0	0	0	0
S155C9316	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	0	0	-0.02829675	0	0	0	0
S156C18468	UMGS1688	UMGS1688 sp900545885	0.106341852	0	0.348816957	-0.03652417	0.270709087	0	0	0
S156C312	<i>Bacteroides</i>	<i>Bacteroides bouchesdurhonensis</i>	0	-0.07939773	0	-0.09020448	0	0	0	0
S156C724	<i>Bacteroides</i>	<i>Bacteroides uniformis</i>	0	-0.12677525	0	-0.08257979	0	0	0	0
S157C6561	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0	-0.0003892	0	-0.02488251	0	0	0	0
S15C6386	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0	-0.11455045	0	-0.07947737	0	0	0	0
S16C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0	-0.02480626	0	-0.05870033	0	0	0	0
S16C6386	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0	-0.02969125	0	-0.0603727	0	0	0	0
S17C18344	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0	-0.00165384	0	-0.03080303	0	0	0	0
S22C9985	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	-0.03364598	0	-0.06824198	0	0	0	0
S23C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0	0	0	-0.02148631	0	0	0	0
S24C6145	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0	-0.08852444	0	-0.07353577	0	0	0	0
S28C8083	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0	-0.00276592	0	-0.0356961	0	0	0	0
S105C8255	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	-0.02509155	0	-0.066036	0	0	0	0
S109C411	<i>Phascolarctobacterium</i>	<i>Phascolarctobacterium faecium</i>	0	0	0	-0.009222	0	0	0	0
S109C428	<i>Enterocloster</i>	<i>Enterocloster</i> sp900541315	0	0	0	-0.02473831	0	0	0	0
S30C1724	<i>Negativibacillus</i>	<i>Negativibacillus massiliensis</i>	0	-0.07538111	0	-0.08470014	0	0	0	0
S31C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0	0	0	-0.03110533	0	0	0	0
S31C253	<i>Alistipes</i>	<i>Alistipes shahii</i>	0	0	0	-0.00105833	0	0	0	0
S31C334	<i>Blautia_A</i>	<i>Blautia_A</i> sp000436615	0	-0.04216018	0	-0.06613735	0	0	0	0
S33C13678	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	0	0	-0.00494289	0	0	0	0
S33C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0	0	0	-0.01752611	0	0	0	0
S33C5652	<i>Acutalibacter</i>	<i>Acutalibacter</i> sp900543555	0	-0.00342821	0	-0.05778348	0	0	0	0
S34C6145	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0	-0.03058673	0	-0.07161442	0	0	0	0
S34C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0	-0.00022823	0	-0.01813402	0	0	0	0
S35C9678	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	-0.03866881	0	-0.07479761	0	0	0	0
S36C290	<i>Odoribacter</i>	<i>Odoribacter splanchnicus</i>	0	0	0	-0.00116631	0	0	0	0
S37C6578	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0	-0.00202727	0	-0.02802584	0	0	0	0
S39C1476	<i>Bacteroides</i>	<i>Bacteroides</i> sp900066265	0	-0.11396787	0	-0.09469007	0	0	0	0
S39C428	<i>Enterocloster</i>	<i>Enterocloster</i> sp900541315	0	0	0	-0.0009616	0	0	0	0
S39C6770	<i>Blautia_A</i>	<i>Blautia_A</i> massiliensis	0	-0.02020323	0	-0.04764337	0	0	0	0
S109C9291	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0	-0.00168692	0	-0.02969465	0	0	0	0
S10C7613	<i>Clostridium_Q</i>	<i>Clostridium_Q</i> sp003024715	0	-0.00558255	0	-0.04404522	0	0	0	0
S40C2353	<i>Bacteroides</i>	<i>Bacteroides intestinalis_A</i>	0	-0.00374136	0	-0.02845638	0	0	0	0
S42C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0	-0.0268407	0	-0.05986936	0	0	0	0
S42C209	<i>Coprococcus</i>	<i>Coprococcus</i> sp900066115	0	0	0	0	0	-0.191124	0	0
S44C50442	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	0	0	-0.01384833	0	0	0	0
S44C69	<i>Clostridium</i>	<i>Clostridium</i> sp900540255	0	0	0	0	-0.03004017	0	0	0

S45C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0	-0.0551167	0	-0.04969716	0	0	0	0
S46C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0	0	0	0	0.083783003	0.594590551	0	0
S46C724	<i>Bacteroides</i>	<i>Bacteroides uniformis</i>	0	-0.07341444	0	-0.07740718	0	0	0	0
S47C74	CAG-95	CAG-95 sp000438155	0	0	0	0	0.117871086	0	0	0
S48C12631	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	-0.00163725	0	-0.05115143	0	0	0	0
S49C2095	<i>Bacteroides</i>	<i>Bacteroides cellulosilyticus</i>	0	0	0	0	0	-0.49330047	0	0
S49C2192	<i>Bacteroides</i>	<i>Bacteroides uniformis</i>	0	-0.06238972	0	-0.0806724	0	0	0	0
S49C835	<i>Parabacteroides</i>	<i>Parabacteroides merdae</i>	0	-9.4915E-05	0	-0.04029729	0	0	0	0
S50C6145	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0	-0.10591883	0	-0.08133768	0	0	0	0
S50C6484	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	-0.03955931	0	-0.07625877	0	0	0	0
S110C6247	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	0	0	-0.02077578	0	0	0	0
S111C6145	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0	-0.06333993	0	-0.08519958	0	0	0	0
S50C738	<i>Fusicatenibacter</i>	<i>Fusicatenibacter saccharivorans</i>	0	0	0	-0.00022977	0	0	0	0
S52C18268	<i>Agathobacter</i>	<i>Agathobacter rectalis</i>	0	0	0	-0.0107385	0	0	0.178745	0
S52C286	<i>Citrobacter</i>	<i>Citrobacter freundii</i>	0	0	0	0	0	-0.3895382	0	0
S55C1769	<i>Bacteroides</i>	<i>Bacteroides thetaiotaomicron</i>	0	-0.06315708	0	-0.07985688	0	0	0	0
S57C334	<i>Blautia_A</i>	<i>Blautia_A</i> sp000436615	0	-0.00226213	0	-0.02093247	0	0	0	0
S57C6145	<i>Parabacteroides</i>	<i>Parabacteroides distasonis</i>	0	-0.10123685	0	-0.08098121	0	0	0	0

Supplementary Table 4. Correlation coefficient between abundance of KOs and phenotype.

KO	AI	γ-GT	AST	LDL-C	TG	TC	BFR
K00011		0 -0.041502		0 -0.238971	-0.085047		0
K00118		0	0	0 -0.261229	-0.106945		-0.000428064
K00012		0	0	0 -0.162598	-0.051206		0
K00891		0	0	0 -0.161899	-0.047532		0
K00015	-0.006327873		0	0 -0.284664	-0.128793		-0.000401554
K00042		0	0	0 -0.25418	-0.098489		-0.000302906
K00033		0	0	0 -0.23252	-0.090006		-0.000130994
K00036		0	0	0 -0.236948	-0.094584		-0.000115141
K00067		0	0	0 -0.160462	-0.048586		0
K01784		0	0	0 -0.120292	-0.02491		0
K06607	-0.125441259		0	0 -0.404319	-0.165859	-0.437478024	-0.421075866
K13013	-0.007467665		0	0 -0.278305	-0.125969		-0.000293265
K15237	-0.056368631		0	0 -0.347597	-0.160751	-0.127570062	-0.000421669
K00102	-0.005886888		0	0 -0.276276	-0.123221		-0.000453398
K00156	-0.020906601		0	0 -0.293778	-0.132385		-0.000339757
K00214	-0.084828446		0	0 -0.346855	-0.177891	-0.150079246	-0.172496534
K00281		0	0	0 -0.220636	-0.083486		-9.09E-05
K00294	-0.03633498		0	0 -0.314565	-0.149112	-0.039994892	-0.000411796
K00318	-0.084784869		0	0 -0.352607	-0.18049	-0.164088894	-0.000648753
K00329	-0.019594977		0	0 -0.301421	-0.14035	-0.011246242	-0.000414613
K02574		0	0	0 -0.178379	-0.061025		0
K00395		0	0	0 -0.297241	-0.129096	-5.70E-05	-0.059621509
K04719	-0.083085963		0	0 -0.3605	-0.174461	-0.211878989	-0.428346643
K00549		0	0	0 -0.200564	-0.070544		-4.28E-05
K02169		0	0	0 -0.222641	-0.084902		-0.000108814
K01271		0	0	0 -0.170903	-0.055055		0
K00936		0	0	0 -0.034308		0	0
K11527		0	0	0 -0.163238	-0.052286		0
K00603		0	0	0 -0.240545	-0.095591		-0.000125214
K00605		0	0	0 -0.210558	-0.077783		-0.00010606
K00680		0	0	0 -0.086536	-0.005453		0
K09458		0	0	0 -0.164847	-0.049923		0
K00648		0	0	0 -0.156188	-0.045446		0
K03335		0	0	0 -0.223235	-0.090516		-9.94E-05
K03827		0	0	0 -0.200865	-0.074077		-8.41E-06
K01951		0	0	0 -0.154127	-0.045057		0
K13006		0	0	0 -0.262468	-0.112584		-0.000330617
K13018	-0.028571407		0	0 -0.300549	-0.139679		-0.21759578
K13668	-0.002789568		0	0 -0.281171	-0.12395		-0.276435499
K00729	-0.064131369		0	0 -0.341132	-0.169329	-0.13895205	-0.000621264
K00996		0	0	0 -0.219869	-0.083845		-0.000133684
K00759		0	0	0 -0.174225	-0.053659		0
K00762		0	0	0 -0.159589	-0.046763		0
K14261	-0.04060159		0	0 -0.319307	-0.146119	-0.067809048	-0.000509804
K13010		0	0	0 -0.222237	-0.090127		-0.000114544
K13017	-0.032933035		0	0 -0.301901	-0.142199	-0.004245924	-0.000538172
K00844	-0.017091281		0	0 -0.29249	-0.131354		-0.000345082
K00903		0	0	0 -0.164984	-0.052545		0
K00908		0	0	0 -0.222761	-0.092741		-0.000169924
K00928		0	0	0 -0.156143	-0.045451		0
K02484		0	0	0 -0.168449	-0.052044		0
K07678		0	0	0 -0.255614	-0.10804		-0.000140393
K05962		0	0	0 -0.235198	-0.100347		-0.000152474
K07647	-0.00895183		0	0 -0.283216	-0.127508		-0.000216802
K07679		0	0	0 -0.22146	-0.091333		-0.000134898
K14978	-0.086225021		0	0 -0.38936	-0.187599	-0.277239164	-0.02053593

K07716	-0.014115017	0	0	-0.289853	-0.131766	0	-0.000522014
K10715	-0.075771805	0	0	-0.338445	-0.163977	-0.120089767	-0.00062442
K10125	-0.065838039	0	0	-0.347782	-0.170703	-0.163089321	-0.367302959
K11443	-0.023940448	0	0	-0.341584	-0.127598	-0.082303571	0
K01809	0	0	0	-0.168898	-0.054333	0	0
K01138	0	0	0	-0.119988	-0.024502	0	0
K05968	0	0	0	-0.184753	-0.063522	0	0
K01057	0	0	0	-0.241111	-0.096291	0	-0.000143473
K02439	0	0	0	-0.284422	-0.117244	0	-0.011587822
K01130	0	0	0	-0.162468	-0.04878	0	0
K01134	0	0	0	-0.174419	-0.054395	0	0
K01133	0	0	0	-0.224854	-0.087008	0	-0.00019826
K01135	-0.051070294	0	0	-0.317724	-0.150766	-0.045043064	-0.000410053
K05349	0	0	0	-0.101667	-0.014341	0	0
K01811	0	0	0	-0.156109	-0.047201	0	0
K01192	0	0	0	-0.182872	-0.064375	0	0
K01195	0	0	0	-0.179577	-0.059691	0	0
K07407	0	0	0	-0.131729	-0.03307	0	0
K01191	0	0	0	-0.205088	-0.079704	0	0
K01243	0	0	0	-0.173833	-0.053787	0	0
K01251	0	0	0	-0.246671	-0.106475	0	-0.000210871
K01303	0	0	0	-0.191843	-0.066634	0	-2.86E-05
K01337	-0.057099424	0	0	-0.311909	-0.152953	-0.045886384	-0.000543792
K01412	0	0	0	-0.263178	-0.117217	0	-0.000247829
K06194	0	0	0	-0.196582	-0.067871	0	-6.21E-06
K06894	0	0	0	-0.188402	-0.064545	0	-4.60E-05
K01476	0	0	0	-0.268188	-0.1186	0	-0.000393453
K01488	0	0	0	-0.250504	-0.09786	0	-0.000222501
K01958	0	0	0	-0.256573	-0.108977	0	-0.000218175
K01580	0	0	0	-0.235176	-0.096131	0	-6.74E-05
K01607	0	0	0	-0.171865	-0.056809	0	0
K15037	-0.077538005	0	0	-0.366106	-0.172819	-0.195237158	-0.000563944
K01623	0	0	0	-0.22761	-0.08772	0	-0.000113483
K01654	0	0	0	-0.223105	-0.088557	0	-0.000166276
K01666	0	0	0	-0.235551	-0.093657	0	-0.000142556
K01667	0	0	0	-0.264016	-0.116462	0	-0.000238759
K03780	0	0	0	-0.273334	-0.111088	0	-0.000387978
K01712	0	0	0	-0.225798	-0.087422	0	-9.87E-05
K01745	0	0	0	-0.2071	-0.075228	0	-4.09E-05
K01754	0	0	0	-0.188603	-0.063043	0	-2.81E-05
K05606	0	0	0	-0.217023	-0.080421	0	-0.000142628
K08234	0	0	0	-0.238627	-0.092171	0	-0.000219555
K01865	-0.072952675	0	0	-0.354544	-0.179044	-0.177912433	-0.094744456
K01791	0	0	0	-0.168753	-0.055648	0	0
K13685	0	0	0	-0.207353	-0.077363	0	-0.000147714
K01807	0	0	0	-0.259065	-0.109431	0	-0.000236109
K01816	-0.009186137	0	0	-0.289838	-0.130959	0	-0.000359714
K01843	0	0	0	-0.231281	-0.091746	0	-9.87E-05
K01847	0	0	0	-0.181233	-0.059248	0	0
K09181	0	0	0	-0.243735	-0.1013	0	-0.000185102
K01966	0	0	0	-0.159142	-0.047343	0	0
K01991	0	0	0	-0.152276	-0.043837	0	0
K01992	0	0	0	-0.134762	-0.034409	0	0
K02004	0	0	0	-0.070389	0	0	0
K13652	0	0	0	-0.210602	-0.080768	0	-3.10E-05
K02116	0	0	0	-0.273867	-0.111355	0	-0.000376166
K09789	0	0	0	-0.232216	-0.089639	0	-0.000225527
K02190	0	0	0	-0.194624	-0.068789	0	-4.64E-06

K11329	-0.072135783	0	0	-0.343463	-0.175574	-0.137552739	-0.000678326
K02503	0	0	0	-0.16167	-0.047974	0	0
K11921	0	0	0	-0.152424	-0.042232	0	0
K02626	-0.089433035	0	0	-0.370976	-0.180297	-0.221364456	-0.091849675
K02651	-0.01582169	0	0	-0.275012	-0.125556	0	-0.000239933
K02796	0	0	0	-0.22771	-0.08302	0	-0.000116722
K02834	0	0	0	-0.1676	-0.051744	0	0
K02871	0	0	0	-0.170158	-0.052837	0	0
K02895	0	0	0	-0.168822	-0.052217	0	0
K02907	0	0	0	-0.184729	-0.061573	0	0
K02931	0	0	0	-0.169031	-0.052448	0	0
K02946	0	0	0	-0.1723	-0.053946	0	0
K02967	0	0	0	-0.173326	-0.055016	0	0
K02996	0	0	0	-0.171551	-0.053879	0	0
K03088	0	0	0	-0.049862	0	0	0
K07071	0	0	0	-0.266738	-0.113847	0	-0.000356017
K03103	-0.078804859	0	0	-0.352886	-0.164646	-0.163391168	-0.03804852
K03146	-0.05682563	0	0	-0.322429	-0.159992	-0.105261657	-0.071587894
K03154	0	0	0	-0.190375	-0.064285	0	-1.57E-05
K08963	0	0	0	-0.265172	-0.116416	0	-0.000414712
K03287	0	0	0	-0.118409	-0.023005	0	0
K03313	0	0	0	-0.234379	-0.094214	0	-0.000133201
K03385	0	0	0	-0.245474	-0.097669	0	-0.000135205
K07315	0	0	0	-0.255686	-0.110748	0	-0.000211376
K03458	0	0	0	-0.173315	-0.052126	0	0
K03517	0	0	0	-0.177061	-0.056578	0	0
K03536	0	0	0	-0.166265	-0.050439	0	0
K08998	0	0	0	-0.168722	-0.052089	0	0
K08737	-0.04142775	0	0	-0.321156	-0.15464	-0.069886469	-0.000514585
K03568	0	0	0	-0.247157	-0.10154	0	-0.000213429
K11927	0	0	0	-0.20407	-0.074604	0	-3.09E-05
K03592	0	0	0	-0.253284	-0.105985	0	-0.000222556
K03624	0	0	0	-0.157403	-0.046482	0	0
K03719	0	0	0	-0.178147	-0.057812	0	0
K05808	0	0	0	-0.177832	-0.057707	0	0
K03744	0	0	0	-0.1833	-0.062132	0	0
K03779	0	0	0	-0.271176	-0.1094	0	-0.000394519
K03801	0	0	0	-0.227573	-0.087812	0	-0.000105864
K04047	0	0	0	-0.241301	-0.101909	0	-0.000195472
K04618	-0.008034926	0	0	-0.340232	-0.133061	-0.093699338	0
K04757	-0.035473334	0	0	-0.310757	-0.141053	-0.031988902	-0.00052139
K07358	0	0	0	-0.367221	-0.157025	-0.214153596	-0.706553974
K04767	-0.014931355	0	0	-0.296945	-0.134542	-0.004839685	-0.000416328
K05340	0	0	0	-0.240934	-0.099227	0	-0.000189235
K05367	-0.004975048	0	0	-0.27663	-0.120041	0	-0.00035134
K05528	-0.085525616	0	0	-0.384285	-0.170576	-0.282526219	0
K05534	-0.088279137	0	0	-0.367033	-0.189731	-0.192398426	-0.000433024
K05681	-0.119277777	0	0	-0.380015	-0.185661	-0.245336452	-0.000663806
K05841	-0.078987116	0	0	-0.346595	-0.166896	-0.141395417	-0.000569201
K05956	0	0	0	-0.171575	-0.052439	0	0
K05970	0	0	0	-0.140653	-0.03706	0	0
K05989	0	0	0	-0.134185	-0.033263	0	0
K06045	0	0.28689	0	-0.286264	-0.058788	0	-0.000349534
K12267	0	0	0	-0.235665	-0.095799	0	-0.000188138
K06215	0	0	0	-0.221908	-0.083173	0	-0.000203829
K07175	0	0	0	-0.246895	-0.102394	0	-0.000182706
K06859	-0.011371616	0	0	-0.285296	-0.129486	0	-0.000289828
K06896	0	0	0	-0.150472	-0.043948	0	0

K06901	0	0	0	-0.184486	-0.058194	0	0
K06975	0	0	0	-0.216455	-0.079801	0	-0.000105001
K06996	-0.039797393	0	0	-0.304045	-0.140581	-0.009126519	-0.000415663
K06999	0	0	0	-0.261868	-0.109436	0	-0.000242517
K07001	0	0	0	-0.161233	-0.048765	0	0
K07078	0	0	0	-0.235976	-0.093344	0	-0.00013233
K07118	-0.021422825	0	0	-0.297266	-0.135682	0	-0.000319362
K07165	0	0	0	-0.091447	-0.008455	0	0
K07173	0	0	0	-0.18675	-0.060171	0	-6.98E-05
K07278	0	0	0	-0.259482	-0.112107	0	-0.000446557
K07446	0	0	0	-0.339391	-0.143146	-0.128062988	-0.943419646
K07403	-0.009978521	0	0	-0.288735	-0.133793	0	-0.000449345
K07488	-0.013380919	0	0	-0.288027	-0.128846	0	-0.000302027
K07588	0	0	0	-0.210234	-0.075886	0	-9.91E-05
K14979	-0.068244381	0	0	-0.344536	-0.163859	-0.145617642	-0.000611778
K07691	0	0	0	-0.180242	-0.020189	0	-0.234804101
K07735	0	0	0	-0.239849	-0.096401	0	-0.000158043
K08087	0	0	0.800531	-0.037835	0	0	-0.157263716
K08222	-0.064681036	0	0	-0.341549	-0.162816	-0.13017062	-0.052698098
K08257	-0.052138788	0	0	-0.310751	-0.149332	-0.034784364	-0.000378413
K08321	-0.010641639	0	0	-0.291378	-0.130961	0	-0.000415455
K08681	0	0	0	-0.23272	-0.089362	0	-0.0002513
K09128	-0.060434302	-0.017596	0	-0.353713	-0.183576	-0.203039951	-0.000431436
K09704	0	0	0	-0.201405	-0.07564	0	-2.21E-06
K09705	-0.087506732	0	0	-0.362606	-0.18191	-0.224289209	-0.119988193
K09740	-0.03104467	0	0	-0.367119	-0.149962	-0.170393657	-0.00045364
K09758	0	0	0	-0.245863	-0.099943	0	-0.000150015
K09793	0	0	0	-0.261152	-0.115305	0	-0.00023741
K09859	0	0	0	-0.330375	-0.140887	-0.059666644	-8.71E-05
K09888	0	0	0	-0.182019	-0.059964	0	0
K09964	-0.043987457	0	0	-0.378176	-0.152407	-0.230956833	-0.192902467
K09992	-0.027825134	0	0	-0.281858	-0.135732	0	-0.000347445
K10563	0	0	0	-0.262519	-0.113819	0	-0.000241325
K10677	-0.043201402	0	0	-0.32351	-0.148943	-0.079012366	-0.018009234
K11022	0	0	0	-0.234973	-0.091893	0	-0.000162759
K11089	-0.115211349	0	0	-0.393421	-0.204133	-0.303253608	-0.000339681
K11294	0	0	0	-0.214376	-0.081341	0	-1.57E-06
K11381	-0.028279006	0	0	-0.285118	-0.131556	0	-0.00027637
K13444	-0.056652249	0	0	-0.320278	-0.15735	-0.087394368	-0.000565305
K12344	-0.017765544	0	0	-0.287789	-0.132558	0	-0.000231024
K12599	0	0	0	-0.325994	-0.134692	-0.075344597	-0.540458799
K13007	-0.013339888	0	0	-0.278016	-0.124087	0	-0.000239552
K13107	-0.060037086	0	0	-0.378132	-0.191338	-0.237657973	-0.000495749
K13410	-0.056869969	0	0	-0.329881	-0.150146	-0.047281171	-3.11E-06
K14310	-0.067273514	0	0	-0.397792	-0.170238	-0.265582202	-0.061628887
K13820	-0.150586257	-0.273863	0	-0.402114	-0.208283	-0.264772394	0
K13874	-0.05745455	0	0	-0.331589	-0.160611	-0.099276567	-0.006296134
K13993	0	0	0	-0.152024	-0.042853	0	0