

**Table S3.** Subsampled and filtered OTU table of Taconic moms, rederived *HBUS* mice, and *HBUS* and WT mice obtained through interbreeding with mice obtained from the Jackson Laboratory**Table S3 A.** Antibiotic-treated (A) *HBUS* mice

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
181348	0	0	0	0	0	0	0	0	0	0	0
3957916	5	0	0	1	0	1	0	0	0	0	0
244484	0	0	0	0	2	0	0	0	0	0	0
1111328	0	0	0	0	0	0	0	0	0	0	0
197452	4	1	0	0	3	2	0	0	1	0	0
269815	0	0	0	0	0	0	0	0	0	0	0
363383	16	9	45	39	56	65	91	74	2	5	1
175080	0	0	0	0	0	0	0	0	0	0	0
179853	0	0	0	0	0	0	0	0	0	0	0
183089	1	1	0	4	1	1	0	0	0	0	0
263171	0	0	0	0	0	0	0	0	0	0	0
192222	0	0	0	0	0	0	0	0	0	0	0
276509	0	0	0	0	0	0	0	0	0	0	0
423455	0	0	0	0	1	0	1	2	1	2	0
267502	0	0	0	2	0	0	0	0	0	0	0
172163	0	0	0	0	0	0	0	0	0	0	0
828435	0	0	0	0	0	0	0	0	0	0	0
289306	0	0	0	0	0	0	0	0	0	0	0
290253	1	0	0	0	0	0	0	0	0	0	0
216495	0	0	0	0	0	0	0	0	0	0	0
4329450	0	0	0	0	0	0	0	0	0	0	0
271418	0	1	0	0	0	0	0	0	0	0	0
206817	0	0	0	0	0	0	0	0	0	0	0
197891	0	0	0	0	0	0	0	0	0	0	0
205134	0	1	0	0	1	1	1	0	1	3	1
4352747	0	0	0	0	0	0	0	0	0	0	0
182043	6	0	0	0	2	0	0	0	0	0	0
274297	0	0	0	0	1	0	0	0	0	0	1
197782	0	0	0	0	0	0	0	0	0	0	0
1105328	0	0	0	0	0	0	0	0	0	0	0
274438	0	0	0	0	0	0	0	0	0	0	0
191948	16	10	1	13	7	7	0	9	0	0	0
429917	0	0	0	1	0	0	0	0	1	1	0
22659	0	0	0	0	103	181	8	28	216	721	255
187272	0	0	0	1	0	0	0	0	0	0	0
277388	0	0	0	1	0	0	0	0	0	0	0
318079	0	0	0	0	0	0	0	0	0	2	0
148056	2	5	40	64	21	69	90	246	902	668	721
270385	0	0	0	0	0	0	0	0	0	0	0
270382	0	0	0	0	0	0	0	0	0	0	0

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
301233	0	0	0	0	0	0	0	0	0	0	0
10518	0	0	0	0	0	0	0	0	0	0	0
827195	0	0	0	0	2	0	0	0	0	0	0
10512	0	0	0	0	0	0	0	0	0	0	0
338640	0	0	0	0	0	0	0	0	0	0	0
752584	108	25	72	127	409	195	275	506	323	300	336
198998	0	0	0	0	0	0	0	0	0	0	0
4357147	0	0	0	0	0	0	0	0	0	0	0
196122	3	2	2	4	1	0	0	0	0	0	0
839200	0	0	0	0	0	0	0	0	0	0	0
4483037	3	0	1	0	2	0	0	0	0	0	0
376862	0	0	0	0	8	3	1	2	1	0	0
148671	0	0	0	0	0	0	0	0	0	0	0
194504	0	0	0	0	0	0	0	0	0	0	0
4442899	0	0	0	0	0	0	0	0	0	0	0
278712	0	0	0	0	0	0	0	1	0	0	0
4469233	0	0	0	0	0	0	0	0	0	0	0
184484	3	0	0	0	0	1	0	0	0	0	0
655793	0	0	0	0	0	0	0	0	0	0	0
405780	0	0	0	0	0	0	0	0	0	0	0
174824	7	0	0	0	2	0	0	0	0	0	0
181193	0	0	0	0	0	0	0	0	0	0	0
3974550	0	0	0	0	56	103	2	6	98	267	96
173916	0	0	0	0	0	0	0	0	0	0	0
197623	2	0	0	5	5	2	0	0	2	1	3
628218	0	0	0	0	0	0	0	0	0	0	0
175706	4	0	0	3	4	1	1	5	1	1	0
183106	0	0	0	0	0	0	0	0	1	0	0
267958	7	0	0	0	1	0	0	0	0	0	0
189288	1	0	0	0	0	0	0	0	0	0	0
177621	3	0	0	0	0	0	0	0	0	0	0
829240	45	7	35	80	61	23	36	61	41	49	48
2645488	1	0	0	0	0	0	0	0	0	0	0
186886	1	0	0	0	0	1	0	0	0	0	0
210262	1	0	0	0	0	0	0	0	0	0	0
271822	3	1	0	2	0	0	0	0	0	1	0
196746	3	0	0	0	0	0	0	0	0	0	0
179343	0	0	0	0	0	0	0	0	2	0	1
4435934	0	0	0	0	0	0	0	0	0	0	0
746679	113371	20911	66206	112821	116425	74572	90839	130457	93802	131131	114795
4481506	0	0	0	0	2	0	1	4	2	3	2
4357315	0	0	0	0	0	0	0	0	0	0	0
452014	0	0	0	0	0	0	0	0	0	0	0
68844	0	0	0	0	0	0	0	0	0	0	0
272593	0	1	0	0	0	0	0	0	0	0	0

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
182995	0	0	0	2	1	1	0	1	2	3	4
4383135	0	0	0	3	2	0	0	0	0	0	0
328143	0	0	0	0	0	0	0	0	0	0	0
185614	0	0	0	0	0	1	0	0	0	0	0
4378081	0	0	0	0	0	0	0	0	1	0	0
162539	3	0	0	0	0	0	0	0	0	0	0
4459184	0	0	0	0	0	0	0	0	0	0	0
586453	1	0	0	0	0	0	0	0	2	0	0
827487	5416	1074	3755	6853	4074	2241	2699	4559	3057	3136	3465
184966	0	1	0	0	1	0	0	0	0	0	0
209028	0	0	0	0	0	0	0	0	0	0	0
197600	2	0	0	0	1	0	0	0	0	0	0
4446120	4	0	0	0	1	1	0	0	0	0	0
356187	0	0	0	0	0	0	0	0	0	0	0
1108078	0	0	0	0	0	0	0	0	0	0	0
1105589	0	0	0	0	0	0	0	0	0	0	0
4342104	5	0	0	1	3	0	0	0	0	0	0
180476	0	0	0	0	0	0	0	0	0	0	0
4335302	0	0	0	0	0	0	0	0	0	0	0
158302	0	0	0	0	0	0	0	0	0	0	2
445144	0	0	0	2	0	0	0	0	0	0	0
184753	1	0	0	0	0	0	0	0	0	0	0
192712	6	0	0	1	4	2	1	1	3	0	0
4414242	2	1	0	0	0	0	0	0	0	0	0
255098	0	0	0	0	25	59	4	10	54	248	66
173892	0	0	0	0	0	0	0	0	0	0	0
4329776	0	0	0	0	0	0	0	0	0	0	0
4483585	0	0	0	0	0	0	0	0	0	0	0
114111	10	1	0	3	0	1	0	0	0	0	0
214715	0	0	0	0	0	0	0	0	0	0	0
262159	0	0	0	0	0	0	0	0	0	0	0
277364	8	0	0	1	3	0	0	0	1	2	5
195433	0	0	0	0	0	0	0	0	0	0	0
4449236	20359	11869	16263	38251	17953	34839	22449	48094	64718	61882	45689
269401	1	0	0	1	0	1	0	0	0	0	0
261177	33	3	0	6	13	6	0	1	2	7	0
261178	0	0	0	0	0	0	0	0	0	0	0
190673	7	0	0	1	7	0	0	0	0	0	0
176836	0	0	0	0	0	0	0	0	0	2	0
188116	0	0	0	0	0	0	0	0	0	0	0
234121	0	0	0	0	0	0	0	0	0	0	0
144207	0	0	0	0	8	27	2	5	26	81	34
188786	0	0	0	0	0	0	0	0	0	0	0
196856	0	0	0	0	0	0	0	0	0	0	0
214116	0	0	0	0	0	0	0	0	0	1	0

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
265047	0	0	0	0	0	0	0	0	0	0	0
415491	0	0	0	0	0	0	0	0	0	0	0
4390365	0	0	0	0	1	0	0	0	0	0	0
174667	2	2	0	1	3	0	0	1	0	0	1
2901239	0	0	0	0	0	0	0	0	0	0	0
273687	0	0	0	0	0	0	0	0	0	0	0
319165	0	0	0	0	0	0	0	0	0	0	0
269426	1	0	0	1	1	0	0	0	0	0	0
270303	1	0	0	0	0	0	0	0	0	0	0
329271	0	0	0	0	0	0	0	0	0	0	0
198024	0	0	0	0	0	0	0	0	0	0	0
896545	14	21	1	7	6	50	6	0	52	365	40
263705	0	2	0	0	1	0	0	0	0	0	0
174418	5	3	0	4	2	0	0	0	0	0	0
174417	0	0	0	0	0	0	0	0	0	0	0
184329	0	0	0	0	0	0	0	0	0	0	0
192342	94	12	39	77	90	61	71	86	60	104	112
4453773	0	0	0	0	0	0	0	0	0	0	0
372473	68	43	75	99	29	42	52	59	0	0	4
199698	0	0	0	0	0	2	1	0	1	0	0
191067	2	0	0	0	0	1	0	0	0	0	0
453896	0	0	0	0	1	0	0	0	0	0	0
179548	1	0	1	0	0	0	0	0	1	0	0
179547	1	0	0	0	0	0	0	0	0	0	0
113978	0	0	0	1	0	0	0	0	0	0	0
3449666	0	0	0	0	0	0	0	0	0	0	0
4468234	0	0	1	2	0	0	0	0	0	0	1
4466275	0	0	0	0	2	0	0	0	0	0	0
186742	9	0	0	0	1	0	0	0	0	0	0
308332	15	4	0	3	5	2	0	0	1	0	0
318819	0	0	0	0	0	0	0	0	0	0	0
4379449	0	0	0	0	2	1	0	0	0	0	0
105109	0	0	0	0	0	0	0	0	0	0	0
261132	0	0	0	1	3	1	0	0	0	0	0
808794	0	0	0	0	0	0	0	0	0	0	0
407393	0	0	0	0	0	0	0	0	0	0	0
267406	0	1	0	1	0	0	0	0	0	0	0
672655	1	0	0	1	0	0	0	0	0	0	0
260989	0	0	0	0	0	0	0	0	0	0	0
2877100	1	0	0	0	0	0	0	0	0	0	0
305787	0	0	0	0	0	0	0	0	0	0	0
302641	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	1	0	0	0	0	0	0	0
353073	0	0	0	0	0	0	0	0	0	0	0
134762	7	1	1	3	15	9	5	5	2	5	7

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
175646	0	0	0	0	5	0	0	0	0	0	0
263518	0	0	0	0	0	0	0	0	0	0	0
2137001	0	0	0	1	1	1	0	0	0	0	0
3231096	0	0	0	0	0	0	0	0	0	0	0
176444	9	1	1	7	2	6	0	0	1	0	0
261114	0	0	0	1	0	0	0	0	0	0	0
191216	0	0	0	0	0	0	0	0	0	0	0
191218	29	17	0	28	9	29	0	11	0	4	0
167509	0	0	0	0	1	0	0	0	0	0	0
175416	0	0	0	0	0	0	0	0	0	0	0
183829	0	1	0	3	0	0	0	0	0	0	0
4462541	46	3	0	4	13	0	0	1	0	1	0
2154095	0	0	0	1	0	0	0	0	0	0	0
4416434	6	3	0	1	0	1	0	2	2	0	1
440840	0	0	0	0	0	0	0	0	0	0	0
40798	0	0	0	0	0	0	0	0	0	0	0
229452	0	0	0	0	0	0	0	0	0	0	0
229455	0	0	0	0	0	0	0	0	0	0	0
178480	20	0	0	0	5	0	0	0	0	0	0
4454025	0	0	0	0	0	0	0	0	0	0	0
4470092	0	0	0	1	0	0	0	0	0	0	0
259846	2	6	0	6	0	0	0	0	0	0	0
177068	3	0	0	2	2	0	0	0	0	0	0
97263	0	0	0	0	0	0	0	0	0	1	0
197099	0	0	0	0	0	0	0	0	0	0	0
265976	0	0	0	0	0	0	0	0	0	0	0
324999	0	0	0	0	0	0	0	0	0	0	0
262677	0	1	0	0	0	1	0	0	0	0	0
647320	1	0	0	0	0	0	0	0	0	2	0
174573	0	0	0	0	2	0	0	1	0	0	0
174571	0	0	0	1	0	0	0	0	0	0	0
1571092	0	0	0	0	0	0	0	0	2	3	0
177271	24	4	0	2	9	0	0	2	1	0	0
4207913	0	0	0	0	1	0	0	0	0	0	0
1112121	0	0	0	0	0	0	0	0	0	0	0
4334624	2	0	0	0	1	0	0	4	6	0	1
390896	0	0	0	0	0	0	0	0	0	0	2
129394	0	0	0	0	0	0	0	0	0	0	0
2897325	1	0	0	1	0	0	0	1	0	0	0
786708	19	5	19	28	188	93	102	165	134	88	125
180235	5	0	0	1	1	1	0	0	0	1	0
185036	2	0	0	0	1	0	0	0	0	0	0
130335	0	0	0	0	0	0	0	0	0	0	0
259249	3	0	0	0	2	0	0	0	0	0	0
98048	0	0	0	0	0	0	0	0	0	0	0

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
261892	0	0	0	0	0	2	0	0	0	0	0
1594231	0	0	0	0	0	0	0	0	0	0	0
4374042	9	1	5	12	2	0	0	0	0	1	1
204111	0	0	0	0	0	0	0	0	0	0	0
274380	0	0	0	0	0	0	0	0	0	0	0
176957	0	0	0	0	0	0	0	0	0	0	0
198238	0	0	0	0	0	0	0	0	0	0	0
1110253	0	0	0	1	0	1	0	0	0	0	0
171079	2	0	0	0	0	0	0	0	0	0	0
174004	2	4	0	0	3	0	0	1	1	0	0
182712	0	0	0	0	0	0	0	0	0	0	0
4417539	0	1	0	0	0	0	0	0	0	0	0
1107303	1	0	0	0	0	0	0	0	0	0	0
310407	0	0	0	0	0	0	0	0	0	0	0
201374	0	0	0	0	120	121	4	23	187	495	149
261409	0	0	0	0	0	0	0	0	0	0	0
320972	1	0	0	0	2	0	0	0	0	0	0
196974	0	0	0	0	0	0	0	0	0	0	0
345362	58	21	78	104	37	57	62	44	2	1	3
134065	16	0	0	0	3	0	0	0	0	0	0
191616	1	0	0	0	0	0	0	0	0	0	0
460953	0	2	0	2	0	0	0	0	0	0	0
174768	1	0	0	0	0	1	0	0	0	0	0
312322	0	0	0	0	0	0	0	0	0	0	0
724472	0	0	0	0	0	0	0	0	0	0	0
207749	0	0	0	0	0	0	0	0	0	0	0
189730	4	1	0	4	1	1	1	1	0	1	0
187841	0	0	0	0	0	0	0	0	0	0	0
186073	4	0	0	0	0	0	0	0	0	0	0
1087825	0	0	0	0	0	0	0	0	0	0	0
47477	1	0	0	0	1	0	0	0	0	0	0
4296701	0	0	0	0	0	0	0	0	0	0	0
169428	0	0	2	0	0	0	0	0	0	0	0
306469	2	1	0	1	0	0	0	0	0	0	0
833390	0	2	0	0	0	2	0	0	0	0	0
315147	0	0	0	0	1	0	0	0	0	0	0
342962	0	0	0	0	0	1	0	0	0	0	0
929476	107	70	168	235	153	236	233	229	0	1	2
635059	0	0	0	1	0	0	0	0	0	0	0
228310	21	0	0	0	3	3	0	0	0	0	0
172705	0	0	0	2	0	0	0	0	0	0	0
185177	0	0	0	0	0	0	0	0	0	0	0
413996	19	0	0	1	7	3	2	0	0	8	0
1106683	0	0	0	0	0	0	0	0	0	0	0
4314257	0	0	0	0	0	0	0	0	0	0	0

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
271013	0	0	0	0	0	0	0	0	0	0	0
264101	4	1	0	0	1	2	0	0	0	0	0
4402042	0	0	0	0	0	0	0	0	0	0	0
72820	0	0	0	1	0	0	0	0	0	3	0
194944	0	0	0	0	0	0	0	0	0	0	0
166535	0	0	0	0	2	0	0	0	0	0	0
247557	0	0	0	0	0	0	0	0	0	0	0
1871	0	0	1	2	0	0	0	0	0	0	0
350666	0	0	0	0	0	0	0	0	0	0	0
190242	0	2	0	1	0	0	0	0	0	0	0
100344	75	54	28	240	0	12	0	0	0	0	2
186338	0	0	0	1	1	0	0	1	0	0	1
542096	1	0	0	0	0	0	0	0	0	0	0
619224	0	0	1	0	2	0	1	0	0	0	1
179695	0	0	0	0	0	0	0	0	0	0	0
263664	11	1	0	4	6	0	0	1	0	2	1
265992	0	0	0	0	0	0	0	0	0	0	0
184209	5	1	0	1	0	0	0	0	0	0	0
261992	11	0	0	0	6	0	1	0	0	0	1
299858	0	0	0	0	0	0	0	0	0	0	0
259699	3	0	0	0	1	0	0	0	0	0	0
193723	0	0	0	0	0	0	0	0	0	0	0
204144	0	0	0	0	0	0	0	0	0	0	0
199403	2	0	0	3	1	3	0	0	0	3	0
1106468	0	0	0	0	0	0	0	0	0	0	0
176760	0	0	0	0	0	0	0	0	0	0	0
827592	0	0	0	0	0	0	0	0	0	0	0
416043	2	0	0	2	0	0	0	0	0	1	0
258641	0	0	0	1	1	0	0	0	0	0	0
36647	1	0	0	0	1	0	0	0	0	0	0
258423	5	0	0	2	4	0	0	0	0	0	0
258421	0	1	0	1	0	0	0	0	0	0	0
186555	0	0	0	1	2	0	0	0	0	0	0
306699	0	0	0	0	0	0	0	0	0	0	0
335267	0	0	0	0	0	0	0	0	0	0	0
771177	3	0	0	0	1	0	0	0	0	0	0
204171	0	0	0	0	1	1	0	0	1	0	0
299267	108	52	541	264	461	526	1078	869	0	2	0
264802	0	0	0	0	0	1	0	0	0	0	0
4296218	0	0	0	0	0	0	0	0	0	0	0
162005	1	0	0	3	0	0	0	0	0	0	0
176242	0	0	0	0	0	0	0	0	0	0	0
310751	0	0	0	0	0	0	0	0	0	0	0
813217	352	81	209	500	1869	866	1166	2009	1341	1310	1437
165430	2	0	0	0	0	0	0	0	0	0	0

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
522371	0	0	0	0	0	0	0	0	0	0	0
593043	15	68	162	15	9	138	289	0	0	0	0
304047	76	2	4	25	43	2	0	8	1	2	0
2084364	1787	747	2085	2446	706	1270	1234	1078	0	1	0
313724	0	0	0	1	0	0	0	0	0	0	0
2937207	125	55	35	277	0	10	0	3	12	3	1
175213	0	0	0	0	0	0	0	0	0	0	0
4480555	58	1	0	4	19	2	0	2	0	0	3
4480557	14	1	0	2	3	5	0	1	0	0	0
175077	1	0	1	1	0	0	0	0	0	0	0
188266	0	0	0	0	0	0	0	0	0	0	0
259578	0	0	0	0	0	0	0	0	0	0	0
177512	0	0	0	0	1	1	0	1	0	0	3
3319464	51	31	34	75	0	11	0	1	4	9	5
3390534	0	0	0	1	0	0	0	0	0	0	0
277067	0	0	0	0	0	0	0	0	0	0	0
199674	0	0	0	1	0	0	0	0	0	0	0
3920500	2	1	0	0	2	0	0	0	0	0	0
265483	2	1	0	0	0	0	0	0	0	0	0
399606	1	0	1	4	0	0	0	0	0	0	0
192971	0	1	0	0	2	0	0	0	0	0	0
275218	0	0	0	0	1	0	0	0	0	0	0
228043	0	1	0	0	0	0	0	0	0	0	0
261486	0	0	0	0	0	0	0	0	0	0	0
297577	1	0	0	0	0	0	0	0	0	0	0
3150250	2	0	0	0	0	0	0	0	0	0	0
578016	0	0	0	0	0	0	0	0	0	0	0
637546	92	18	52	97	87	50	65	103	86	71	82
195691	0	0	0	0	0	0	0	0	0	0	0
4483570	0	0	0	0	0	0	0	0	0	0	0
4306262	7474	34259	55817	15590	2658	89737	59471	38	44	44	25
184451	2	1	0	0	3	2	0	0	0	0	0
184456	0	0	0	0	0	0	0	0	0	0	0
814952	83	21	52	121	83	44	47	93	53	63	79
264225	0	0	0	0	0	0	0	0	0	0	0
198865	0	0	0	0	0	0	0	0	0	0	0
4405128	9	0	0	0	2	0	0	0	0	0	0
3265889	0	0	0	0	1	0	0	0	0	0	0
1107652	2	0	0	0	7	0	0	0	0	0	0
195337	0	1	0	0	0	0	0	0	0	0	0
196672	0	0	0	0	2	1	0	0	0	8	0
269726	3	0	0	1	3	0	0	0	0	0	0
179457	2	1	1	0	7	9	4	3	2	6	6
637934	1	0	0	0	0	0	0	0	0	0	0
262917	0	0	0	1	1	0	0	0	0	0	0



Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
1108599	4	6	2	9	0	3	0	1	0	5	0
339329	0	0	0	0	0	0	0	0	0	0	0
2875735	18	4	1	8	6	1	1	3	0	0	3
4402834	0	0	0	0	0	0	0	0	0	0	0
313898	0	0	0	0	0	0	0	0	0	0	0
176071	0	0	0	0	0	0	0	0	0	0	0
277497	0	0	0	0	0	0	0	0	0	0	0
349343	0	0	0	0	0	0	0	0	0	0	0
203605	1	1	0	0	0	1	1	0	1	1	1
4389125	6	2	0	1	2	1	1	0	0	0	0
170926	0	0	0	0	0	0	0	0	0	2	0
4448052	1	0	0	0	0	0	0	0	1	0	0
174698	0	0	0	0	0	0	0	0	0	0	0
332962	1	1	0	0	0	0	0	0	0	0	0
3610691	155	137	282	1239	106	334	255	830	4969	4160	2887
4390754	0	0	0	0	1	0	0	0	0	0	0
4457427	0	0	0	0	0	0	0	0	0	0	0
320169	0	0	0	0	0	0	0	0	0	0	0
265116	0	0	0	0	0	0	0	0	0	0	0
269125	4	3	10	1	1	0	17	0	0	0	3
4449518	11	0	0	3	6	0	0	0	0	0	0
561069	3	0	0	0	0	0	0	0	0	0	0
299171	0	0	0	0	0	0	0	0	0	0	0
40230	0	0	0	0	0	0	0	0	0	0	0
569818	0	0	0	0	1	0	0	0	0	0	0
319219	0	0	0	0	0	0	0	0	0	0	0
198964	0	0	0	0	0	1	1	0	0	1	1
618010	349	69	276	505	351	216	299	378	247	335	321
342075	0	0	0	0	0	0	0	0	0	0	0
135956	0	0	1	0	0	0	0	0	0	0	0
3919797	14	1	0	1	14	1	0	0	0	0	0
265301	0	0	0	0	0	0	0	0	0	0	0
578058	19	5	24	37	42	34	43	60	46	33	65
10196	22	4	14	30	40	28	31	51	50	61	47
259511	0	0	0	0	0	0	0	0	0	0	0
183619	0	0	0	0	0	0	0	0	0	0	0
261076	0	0	0	0	0	0	0	0	0	0	0
270391	4	0	0	0	1	0	0	0	0	0	0
4440624	0	0	0	0	0	0	0	0	0	0	0
4460604	0	1	0	0	0	0	0	0	0	0	0
95424	1	0	0	1	0	0	0	0	0	0	0
436341	0	0	0	0	0	0	0	0	0	0	0
295075	0	0	0	0	0	0	0	0	0	0	0
1678333	0	0	0	0	0	0	0	0	0	0	0
243185	30	5	18	32	63	51	53	86	57	101	92

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
175998	0	0	0	0	0	0	0	0	0	0	0
3267277	1405	316	903	1762	2302	1164	1536	2382	1681	1608	1932
1931575	0	0	0	0	0	0	0	0	0	0	0
337784	0	0	0	0	0	0	0	0	0	0	0
1921818	0	0	0	0	0	0	0	0	0	0	0
3172949	11	0	0	1	1	6	3	2	7	16	5
3172943	0	0	0	0	0	0	0	0	0	0	0
645358	2	0	0	0	0	1	0	0	0	0	0
838685	0	4	0	3	0	0	0	1	2	0	1
828284	1537	286	1108	1913	1264	745	930	1344	940	1023	1057
1111755	32	20	2	16	8	38	0	1	3	2	2
188878	10	4	0	1	1	2	0	0	0	0	0
4401580	0	0	0	0	0	0	0	0	0	0	0
317854	0	0	0	0	10	17	2	5	26	60	22
4256470	0	0	0	0	0	1	0	0	0	0	0
839558	0	0	0	0	0	0	0	0	0	0	0
185743	0	0	0	0	0	0	0	0	0	0	0
4378740	0	0	0	0	0	3	1	2	3	0	0
266206	1	0	0	0	0	0	0	0	0	0	0
270513	0	1	0	0	0	0	0	0	0	0	0
334697	0	0	0	0	0	0	0	0	0	0	0
4352471	152	41	140	268	182	106	133	201	144	151	151
4426367	0	0	0	0	0	0	0	0	0	0	0
209030	4	0	0	1	4	0	0	0	0	0	0
190646	0	0	0	0	0	0	0	0	0	0	0
172389	0	0	0	0	0	0	0	0	0	0	0
213896	9	0	0	1	13	2	0	0	0	0	0
161762	0	0	0	0	0	0	0	0	0	0	0
174441	1	0	0	0	0	0	0	1	0	0	0
135625	0	0	0	0	0	0	0	0	0	0	0
4365109	0	0	0	0	0	0	0	0	0	0	0
832558	0	0	0	1	2	1	0	0	3	0	0
4464113	1	1	1	2	0	0	0	0	0	0	0
1105376	2	58	2	37	0	181	2	2	1	0	1
346275	0	0	0	0	0	0	0	0	0	0	0
3505032	0	0	0	0	136	361	9	22	279	1378	395
4355436	0	0	0	0	0	0	0	0	0	0	1
4480176	19	1	0	0	4	1	0	0	0	0	0
344527	0	0	0	0	2	0	0	0	0	0	0
4372003	0	0	0	1	0	0	0	0	0	0	0
172464	0	1	1	33	0	2	0	0	0	0	0
289709	58	39	59	102	37	55	46	46	0	0	0
174854	1	0	0	0	1	0	0	0	0	0	0
830014	0	0	0	0	0	0	0	0	0	3	0
189666	0	0	0	0	0	0	0	0	0	0	0

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
304416	0	0	0	0	0	0	0	0	0	0	0
214835	2	0	0	1	3	0	0	0	0	0	0
260346	0	0	0	0	0	0	0	0	0	0	0
195445	0	0	0	0	0	0	0	0	0	0	0
263420	0	0	0	0	0	0	0	0	0	0	0
187959	0	0	0	0	0	0	0	0	0	0	0
199707	0	0	0	0	0	0	0	0	0	0	0
175485	0	0	0	1	0	0	0	0	0	0	0
193064	0	0	0	1	2	0	0	0	0	0	0
174285	22	1	0	1	7	0	0	0	0	0	0
1110752	8	1	0	0	4	6	0	0	1	0	0
177414	0	0	0	0	0	0	1	0	3	0	0
882782	0	0	0	0	0	0	0	0	0	0	0
180465	0	0	0	0	0	0	0	0	0	0	0
1113553	0	0	0	0	485	954	45	116	905	4602	1258
347490	1	0	0	1	0	0	0	0	0	0	0
322991	0	0	0	0	0	0	0	0	1	0	0
4327628	17	17	39	159	12	26	28	94	496	298	275
819999	15	8	38	34	313	464	386	569	574	1242	824
4402077	1	0	0	0	1	0	0	0	0	0	0
63144	0	0	0	0	21	30	1	1	34	97	51
233691	0	0	0	0	0	0	0	0	0	0	0
1108453	0	0	0	2	0	0	0	0	0	0	0
38278	0	0	0	0	0	0	0	0	0	2	0
181419	0	0	0	0	0	0	0	0	0	0	0
183675	1	1	0	1	2	0	0	0	0	0	1
259901	0	0	0	0	0	0	0	0	0	0	0
322839	7	3	0	4	3	3	0	2	2	0	0
194388	0	0	0	0	0	0	0	0	0	0	0
307416	0	0	0	0	0	0	0	0	0	1	0
190063	0	0	0	0	0	0	0	0	0	0	0
313274	0	0	0	0	0	0	0	0	0	0	0
1136443	72	5	2	23	24	0	0	0	0	5	2
421893	0	0	0	0	0	0	0	0	0	0	0
3325760	0	0	0	0	0	0	0	0	0	0	0
343130	0	0	0	0	0	0	0	0	0	0	0
174260	0	0	0	0	0	0	0	0	0	0	0
4453627	0	0	0	0	0	0	0	0	0	0	0
348785	0	0	0	0	0	0	0	0	0	0	0
189789	0	0	0	0	0	0	0	0	0	0	0
3056461	1	0	0	0	0	0	0	0	0	0	0
188785	0	0	0	0	0	0	0	0	0	0	0
354736	3	0	0	5	0	0	0	0	0	0	0
263953	0	0	0	0	0	0	0	0	0	0	0
635304	1217	233	858	1451	2290	1171	1475	2379	1664	1773	1852

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
309663	42	3	0	6	24	1	0	1	1	0	0
198604	1	1	0	0	0	0	0	0	0	0	0
205160	0	0	0	0	0	0	0	0	2	0	0
264657	3	0	0	0	1	0	0	0	0	0	0
273928	0	0	0	0	0	0	0	0	0	0	0
197025	0	0	0	1	0	0	0	0	0	0	0
157999	1	0	0	0	0	0	0	0	0	0	0
385545	0	0	1	1	0	0	0	1	0	0	0
186777	1	0	0	0	1	0	0	0	0	0	0
30067	0	0	0	0	0	0	0	0	0	0	0
177205	0	0	0	0	0	0	0	0	0	0	0
4401375	1	1	0	0	0	1	0	0	0	0	0
176139	0	0	0	0	0	0	0	0	0	0	0
3998912	0	0	0	0	0	0	0	0	0	0	0
175114	0	0	0	0	0	0	0	0	0	0	0
176868	0	0	0	1	0	0	0	0	0	0	0
191878	0	0	0	0	0	0	0	0	0	0	0
259195	0	0	0	0	0	0	0	0	0	0	0
174791	2	0	0	1	2	1	0	0	1	1	0
2624257	2	0	0	0	1	0	0	0	0	0	0
271734	2	0	0	0	0	0	0	0	0	0	0
174420	0	0	0	0	0	0	0	0	0	0	0
1517779	11	1	0	2	6	1	0	1	0	0	0
1108378	1	0	0	0	0	1	0	0	0	0	0
319816	0	0	0	0	0	0	0	0	0	0	0
606063	20	8	14	31	84	43	48	95	70	66	80
4420272	1	0	0	0	0	0	0	0	0	0	0
266091	0	0	0	0	0	0	0	0	0	0	0
177014	31	1	0	3	19	2	5	7	12	6	2
2978254	4	1	0	1	0	2	0	0	0	0	2
51677	5	0	0	1	4	0	0	1	0	0	0
345211	0	0	0	0	0	0	0	0	0	0	0
4476330	0	0	0	0	0	0	0	0	0	0	0
113417	0	1	0	0	0	0	0	0	0	0	0
174651	0	0	0	1	0	0	0	0	0	0	0
263366	0	0	0	0	0	0	0	0	0	0	0
178068	0	0	0	0	0	2	1	2	2	1	0
273904	0	0	0	0	0	0	0	0	0	0	0
258559	20	4	0	0	5	3	0	0	0	0	0
2315700	0	0	0	0	1	0	0	0	0	0	0
4418586	15	0	0	1	9	4	0	0	0	0	0
276629	0	0	0	0	0	0	0	0	0	0	0
4424327	1	0	0	6	1	6	0	1	0	0	0
831301	0	0	0	1	0	1	0	0	0	0	0
190026	0	0	0	0	0	0	0	0	0	0	0

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
4476780	0	0	0	0	0	0	0	0	0	0	0
570367	1	0	0	0	0	0	0	0	0	0	0
210950	3	1	0	0	2	0	0	0	0	0	0
4366524	1	0	0	0	0	0	0	0	0	0	0
272192	0	0	0	0	0	0	0	0	0	0	0
136604	0	0	0	1	0	0	0	0	0	0	0
192316	3	0	1	0	1	0	0	0	3	1	0
2072645	59	21	83	103	94	142	113	168	1	0	0
181719	15	0	0	1	1	0	0	0	4	0	0
292892	0	0	0	0	0	0	0	0	0	0	0
340600	0	0	0	0	0	0	0	0	0	0	0
261590	5	1	0	2	1	3	0	0	0	2	0
168984	5	1	0	0	5	0	0	0	0	0	0
1703712	0	0	0	0	0	0	0	0	0	0	0
264345	0	0	0	0	0	0	0	0	0	0	0
209845	0	0	0	0	0	0	0	0	0	0	0
198209	1	0	0	0	0	3	0	1	0	0	0
171532	1	0	0	0	0	0	0	0	0	0	0
299600	0	0	0	0	0	0	0	0	0	0	0
273967	0	0	0	0	0	0	0	0	0	0	0
4449984	0	0	0	3	0	0	0	0	0	0	0
325850	0	0	0	0	0	0	0	0	0	0	0
801260	0	0	0	0	2	0	0	0	0	0	0
259631	0	1	0	0	0	0	0	0	0	0	0
278609	2	0	0	2	0	0	0	0	0	0	0
264155	0	0	0	0	0	0	0	0	1	0	0
333576	0	0	0	0	0	0	0	0	0	0	0
194665	0	0	0	1	0	0	0	1	0	0	0
194662	0	0	0	0	0	0	0	0	0	0	0
2897332	4	0	0	1	0	0	0	0	0	0	0
178490	0	0	0	2	0	0	0	0	0	0	0
262801	2	0	0	0	1	0	0	0	0	0	0
4471130	1	0	0	0	4	0	2	0	0	0	0
4471135	0	0	0	0	0	0	0	0	0	0	0
259275	0	0	0	0	1	0	0	0	0	0	0
198194	3	0	0	0	0	0	0	0	0	0	0
575261	0	1	0	0	0	0	0	0	0	0	0
258849	16	1	0	0	4	2	0	0	0	0	0
4045882	0	0	0	0	0	0	0	0	0	0	1
177917	0	0	0	0	1	0	0	0	1	0	0
298973	0	0	0	0	0	0	0	0	0	0	0
835456	0	0	0	0	1	0	0	0	0	0	0
276663	0	0	0	0	0	1	0	0	0	0	0
3868285	10	2	1	14	0	0	0	4	0	0	2
276484	0	0	0	0	0	0	0	0	0	0	0

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
192598	1	2	0	0	0	0	0	0	0	0	0
4343528	8	0	0	1	0	3	0	0	0	0	0
260233	0	0	0	0	0	0	0	0	0	0	0
174770	0	0	0	0	0	0	0	0	0	0	0
272953	1	0	0	1	0	0	0	0	0	0	0
176886	0	0	0	0	0	0	0	1	0	1	0
4466618	34	16	13	46	404	190	229	470	255	312	285
259870	0	0	0	0	0	0	2	0	0	0	0
4450025	0	0	0	0	0	0	0	0	0	0	0
661055	0	0	0	0	0	0	0	1	0	0	0
210292	12	1	0	1	4	4	2	1	0	1	2
166099	0	0	0	0	0	0	0	0	0	0	0
345582	0	0	0	0	0	0	0	0	0	0	0
261334	0	0	0	0	0	0	0	0	0	0	0
136783	1	0	0	0	0	0	0	0	0	0	0
314424	0	0	0	0	0	1	0	0	0	0	0
771140	0	3	0	9	0	1	0	0	0	0	0
177930	0	0	0	0	0	0	0	0	0	0	0
274095	0	0	0	0	0	0	0	0	0	0	0
185519	0	0	0	0	0	0	0	0	0	0	0
162639	41	0	0	9	11	2	0	3	0	0	0
578649	0	0	0	0	1	0	0	0	0	0	0
312311	1	0	0	0	1	0	0	0	0	0	0
569522	1	0	1	1	1	1	0	0	1	0	0
2212505	28	4	0	8	21	6	2	2	2	7	2
214120	0	0	0	0	0	0	0	0	0	0	0
258411	0	0	0	0	0	0	0	0	0	0	0
4371295	1	0	0	0	0	0	0	0	0	0	0
2797565	4	0	0	0	0	0	0	0	0	0	0
1991255	0	0	0	0	0	0	0	0	0	0	0
261350	1	0	0	5	3	4	0	3	3	0	2
14035	3	0	0	0	0	0	0	0	0	0	0
264325	0	0	0	0	0	0	0	0	0	3	0
437137	14	2	0	4	3	8	0	4	3	0	0
4481359	0	0	0	0	0	0	0	0	0	0	0
112720	0	1	0	0	0	0	0	0	0	0	0
311788	1	1	0	1	1	0	0	0	0	0	0
833381	0	0	0	0	0	0	0	0	0	0	0
177952	2	0	0	0	2	0	0	0	1	0	0
4483264	0	0	0	0	0	0	0	0	0	0	0
310781	0	0	0	0	0	0	0	0	0	0	0
4477372	0	0	0	0	0	0	0	0	0	0	0
342685	1	0	0	0	0	0	0	0	0	0	0
4413888	0	0	0	0	0	0	0	0	0	0	0
273091	0	0	0	0	5	0	0	0	0	0	0

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
324013	0	0	0	0	0	0	0	0	0	0	0
177371	0	0	0	0	6	1	1	3	7	2	1
4393892	1	0	0	0	0	0	0	0	0	0	0
4378477	1	1	9	7	45	67	37	43	74	179	112
4327763	0	0	0	0	0	0	0	0	0	0	0
1902400	10	0	1	0	0	0	0	0	0	0	0
181091	0	0	0	0	0	0	0	0	0	0	0
4384058	60	16	39	90	978	542	719	1074	762	964	860
1112373	0	0	0	0	0	0	0	0	0	0	0
180879	1	4	0	1	0	0	0	2	0	0	0
356226	0	0	0	0	0	0	0	0	0	0	0
197706	1	0	0	0	0	0	0	0	0	0	0
264468	1	4	0	1	3	16	0	0	0	0	0
186549	0	0	0	0	0	0	0	0	0	0	0
185550	1	0	0	0	1	1	3	4	4	3	1
177748	0	0	0	0	0	0	0	0	0	0	0
189309	0	0	0	1	0	0	0	0	0	0	0
688800	0	0	0	0	0	0	0	0	0	0	0
3013444	2	2	0	3	1	0	0	0	0	0	0
174056	1	2	0	0	0	1	1	0	0	0	1
583266	0	0	0	0	0	0	0	0	0	0	0
180077	8	1	1	15	14	18	13	27	34	19	13
813805	121	17	91	204	607	308	347	662	422	363	436
381666	0	0	0	0	0	0	0	0	0	0	0
4449524	0	0	0	3	0	0	0	0	0	1	0
4441792	77	65	5	54	23	21	5	2	45	603	33
259006	0	0	0	0	0	0	0	0	0	0	0
190114	0	0	0	0	0	0	0	0	0	0	0
175227	0	0	0	0	0	0	0	0	0	0	0
4464787	0	0	0	1	0	0	0	0	0	0	0
4433554	0	0	0	0	1	0	0	0	0	0	0
228798	6	0	0	0	0	0	0	0	0	0	0
1109929	4	2	0	0	1	0	0	0	0	0	0
191098	2	0	0	0	0	0	0	0	0	0	0
196664	0	0	0	0	0	0	0	0	0	0	0
279026	0	0	0	0	0	0	0	0	0	0	0
179958	0	0	0	0	0	0	0	0	0	0	0
206324	0	0	0	0	0	0	0	0	1	0	0
174071	0	0	0	0	0	0	0	0	0	0	0
288128	0	0	0	0	0	0	0	0	0	0	0
4453609	2	0	0	0	0	0	0	0	0	0	0
356164	0	0	0	0	0	0	0	0	0	0	0
577170	0	0	0	0	0	0	0	0	0	0	0
185125	9	0	0	2	0	0	0	3	0	0	0
185126	5	1	0	0	1	1	0	0	0	0	0

Table S3 A

ID	A	A.1	A.2	A.3	A.4	A.5	A.6	A.7	A.8	A.9	A.10
130663	0	0	0	1	1	0	0	0	0	0	0
277200	4	0	0	0	3	1	0	0	0	0	0
4364243	0	0	0	0	0	0	0	0	0	0	0
182470	0	0	0	0	0	0	0	0	0	0	0
166718	3	0	0	1	2	0	0	0	1	0	0
176008	0	0	0	1	0	0	0	0	0	0	0
1106101	0	0	0	0	0	0	0	3	0	1	0
584137	2	1	0	0	0	0	0	0	0	0	0
268384	0	0	0	0	26	35	2	4	46	184	46
332608	2	0	0	1	3	0	0	0	0	4	0
303251	3	4	3	4	0	0	0	0	0	0	0
214919	48	1	0	3	21	0	0	0	2	9	2
267388	11	1	2	1	1	0	0	0	0	0	1
187181	0	0	0	0	0	0	0	0	0	0	0
228556	1609	282	942	1349	939	548	743	1071	709	963	868
129990	8	1	0	3	12	1	0	5	4	1	0
271572	0	0	0	0	0	0	0	0	0	0	0
3197419	0	0	0	0	0	0	0	0	0	0	0
187233	3	2	0	4	0	0	0	0	3	0	0
420168	0	0	0	0	0	0	0	0	0	0	0
189346	0	0	0	0	0	0	0	0	0	0	0
4472195	0	0	0	0	0	0	0	0	0	0	0
199137	0	0	0	0	0	0	0	0	0	0	0
264294	0	0	0	0	0	0	0	0	0	0	0
268844	0	0	0	0	0	0	0	0	0	0	0
179427	0	0	0	0	0	0	0	0	4	1	0
179426	0	0	0	0	0	0	0	0	0	0	0
331411	0	0	0	0	0	0	0	0	0	0	0
230268	0	0	0	0	0	1	0	0	0	0	0
271439	0	0	0	0	0	0	0	0	0	0	0
310760	0	0	0	0	1	0	0	0	0	0	0
170335	4	0	0	0	2	1	0	0	0	0	0
189476	0	1	0	0	0	0	0	0	0	0	0



Table S3 B. Taconic (T) moms

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
181348	30	29	73	10	14	20	16	14
3957916	56	33	50	64	25	53	13	71
244484	53	52	61	23	14	62	52	25
1111328	165	37	37	35	40	68	80	247
197452	7	5	144	182	12	8	0	0
269815	85	49	80	39	8	56	76	31
363383	0	0	0	0	0	0	0	0
175080	4	0	0	0	4	0	0	1
179853	67	92	70	33	19	70	27	32
183089	0	0	0	0	0	0	0	0
263171	15	31	34	244	15	79	86	72
192222	19	2	0	0	109	0	0	0
276509	4	0	0	0	8	0	0	0
423455	0	2	2	0	1	0	0	2
267502	12	24	22	32	3	19	1	17
172163	4	0	0	0	0	0	0	0
828435	3	21	5	46	0	35	6	3
289306	59	56	63	35	14	57	72	72
290253	357	152	136	80	77	407	376	159
216495	39	99	165	142	16	20	110	90
4329450	29	19	16	91	4	56	28	42
271418	1	0	1	0	5	0	0	0
206817	0	0	0	0	2	0	0	2
197891	1	0	0	1	3	0	0	0
205134	3	0	0	0	41	0	0	8
4352747	0	0	0	0	18	0	0	0
182043	722	916	2397	1096	287	1329	346	966
274297	722	630	582	459	150	667	745	706
197782	35	20	19	5	9	23	20	23
1105328	11	93	150	202	11	144	44	20
274438	101	85	83	63	20	91	83	89
191948	0	0	0	0	0	1	0	0
429917	1	1	0	0	42	0	0	0
22659	63	11	2	14	43	21	19	141
187272	0	0	0	0	0	0	0	1
277388	228	92	96	70	47	282	248	78
318079	0	0	0	0	0	0	0	0
148056	0	0	0	0	0	0	0	0
270385	41	16	12	12	7	28	26	35
270382	0	0	0	0	0	0	0	0
301233	62	49	21	241	11	75	35	62
10518	0	0	0	0	0	0	0	0
827195	2	24	1	7	0	0	12	2
10512	0	0	0	0	1	0	0	0

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
338640	168	163	198	87	43	163	112	107
752584	0	0	0	0	0	0	0	0
198998	86	41	39	46	14	122	141	42
4357147	117	180	256	32	53	101	85	42
196122	0	1	0	1	0	2	0	0
839200	3	1	0	1	0	1	0	2
4483037	47	31	15	34	14	81	14	118
376862	9	12	37	64	361	13	17	2589
148671	15	22	20	18	1	23	14	9
194504	15	35	32	40	34	20	33	9
4442899	12	6	10	16	2	13	1	15
278712	2	0	1	0	3	2	3	1
4469233	576	52	72	6	30	70	58	52
184484	1	1	2	1	1	1	0	3
655793	206	323	110	105	24	223	166	208
405780	0	0	0	0	0	0	0	0
174824	2	2	3	20	2	5	4	7
181193	60	12	29	109	2	62	53	78
3974550	4	0	1	3	1	0	0	11
173916	496	127	345	35	101	323	45	39
197623	1	2	1	1	93	2	0	7
628218	52	34	69	63	103	22	55	19
175706	0	0	0	0	2	0	0	1
183106	14	22	60	6	5	1	55	8
267958	3	1	3	4	0	2	2	2
189288	4	12	8	15	6	25	7	10
177621	315	174	63	154	53	191	46	498
829240	0	0	0	0	0	0	0	0
2645488	23	34	140	38	1	101	26	4
186886	170	50	163	469	100	809	145	115
210262	19	3	6	1	1	1	6	3
271822	242	113	381	83	41	89	142	77
196746	4	2	2	0	0	1	3	0
179343	8	22	75	6	2	0	47	9
4435934	3	9	6	7	0	14	5	2
746679	0	0	0	0	1	0	0	0
4481506	0	0	0	0	0	0	1	0
4357315	108	59	45	9	39	31	129	31
452014	30	26	10	1	15	6	31	13
68844	4	5	4	12	1	6	5	8
272593	4	1	7	9	3	3	2	5
182995	3	1	1	0	316	1	0	15
4383135	10	0	66	155	84	105	9	21
328143	2	0	0	0	0	0	0	0
185614	6	0	0	0	151	0	0	8

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
4378081	20	5	0	0	75	0	2	0
162539	0	0	0	0	0	0	0	0
4459184	27	8	225	38	22	18	53	13
586453	1	7	9	2	2	3	1	12
827487	0	0	0	0	2	0	0	0
184966	403	104	215	228	172	113	107	42
209028	0	0	0	1	1	0	1	0
197600	637	530	199	788	477	1031	394	977
4446120	273	1087	699	222	126	626	531	76
356187	21	13	4	7	1	16	9	3
1108078	109	50	33	12	22	33	24	69
1105589	2	1	2	0	16	0	1	1
4342104	170	315	349	63	88	163	122	73
180476	21	24	39	32	4	30	10	24
4335302	78	45	446	51	37	43	20	139
158302	908	295	848	128	177	185	2043	286
445144	1	1	0	0	9	0	0	0
184753	6	0	0	0	22	0	1	0
192712	5	2	0	0	68	0	0	38
4414242	45	21	16	20	11	28	12	104
255098	0	0	0	0	0	0	0	1
173892	45	44	31	35	16	31	17	26
4329776	24	8	26	12	3	6	9	16
4483585	87	25	32	44	26	10	17	5
114111	0	0	0	0	1	0	0	0
214715	0	0	0	0	0	0	0	0
262159	62	85	67	55	19	136	39	98
277364	64	8	1	1	230	0	0	12
195433	19	17	23	38	5	20	46	13
4449236	2	0	0	0	170	1	1	26
269401	17	19	40	9	3	24	22	6
261177	1	1	0	0	12	0	1	3
261178	39	72	80	30	10	68	18	21
190673	0	0	0	0	3	0	0	0
176836	127	127	50	50	12	140	99	90
188116	12	4	27	88	6	41	50	95
234121	535	2552	1205	221	576	1882	98	18
144207	2	0	0	0	1	0	0	2
188786	30	13	15	40	1	16	8	17
196856	40	18	32	10	13	2	18	152
214116	791	385	644	27	203	31	259	913
265047	25	84	81	38	5	60	19	24
415491	149	101	74	377	44	179	76	120
4390365	0	9	8	10	1	1	8	2
174667	539	258	689	327	188	34	330	2835

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
2901239	144	242	80	36	77	139	92	57
273687	20	26	72	35	16	38	70	35
319165	35	20	35	17	5	8	19	84
269426	37	22	58	43	9	47	14	16
270303	59	49	81	25	11	73	80	25
329271	30	15	17	6	1	22	31	4
198024	67	43	86	41	11	53	61	27
896545	1	0	0	0	215	0	0	11
263705	103	35	55	29	26	89	58	58
174418	53	87	330	60	67	64	26	50
174417	85	32	490	192	23	192	184	75
184329	10	0	1	0	229	2	0	9
192342	0	0	0	0	0	0	0	0
4453773	0	0	0	0	1	0	0	0
372473	0	0	0	0	0	0	0	0
199698	21	46	124	32	14	2	76	24
191067	90	48	126	59	22	123	29	147
453896	2	0	0	0	18	1	0	1
179548	0	0	0	0	0	0	1	0
179547	1047	279	336	262	57	648	605	360
113978	0	0	0	0	0	0	0	0
3449666	1	0	0	0	32	0	0	0
4468234	4	0	0	0	32	0	0	0
4466275	41	66	45	19	10	34	26	32
186742	429	39	50	75	63	281	214	182
308332	0	0	18	17	1	59	10	8
318819	14	110	44	359	1	350	57	42
4379449	1	4	0	3	0	0	6	2
105109	34	2	24	1	0	2	8	3
261132	831	1315	462	433	127	929	655	639
808794	5	4	20	48	8	17	4	8
407393	1	0	0	0	5	0	1	0
267406	47	25	76	25	30	34	6	9
672655	11	1	0	0	41	0	1	3
260989	63	29	17	27	5	33	30	49
2877100	561	589	504	181	110	328	221	296
305787	96	74	36	777	17	248	60	169
302641	27	15	17	4	5	36	21	19
1992	0	1	0	0	4	0	1	0
353073	3	1	1	0	8	0	1	2
134762	29	2	0	0	103	0	3	18
175646	0	0	3	0	1	0	0	0
263518	4	0	0	0	14	0	0	0
2137001	14	1	0	0	98	1	0	0
3231096	3	1	0	0	4	0	1	0

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
176444	10	0	1	0	102	0	0	2
261114	16	4	59	70	4	63	0	145
191216	10	1	16	0	2	0	0	7
191218	0	0	0	0	0	0	0	0
167509	99	61	727	76	70	43	28	262
175416	55	115	92	118	52	151	165	202
183829	0	0	1	0	0	1	0	0
4462541	155	16	346	7	59	487	5	184
2154095	60	43	91	20	6	72	12	54
4416434	2040	952	498	15245	171	5071	1407	2956
440840	46	14	48	116	7	90	57	99
40798	26	16	7	19	3	16	11	49
229452	951	169	125	49	59	245	154	255
229455	49	7	7	6	3	10	5	15
178480	3	5	7	1	1	1	1	1
4454025	1	0	2	1	28	1	0	1
4470092	2	3	24	54	4	17	5	5
259846	151	130	697	1926	151	672	171	199
177068	4	1	1	3	0	3	0	3
97263	9	1	26	0	4	0	0	14
197099	189	181	133	133	20	233	214	128
265976	76	35	74	89	17	91	23	61
324999	86	49	35	229	16	116	62	94
262677	32	26	23	11	2	21	15	6
647320	57	59	87	74	32	94	101	46
174573	0	1	0	0	0	0	0	2
174571	11	8	32	50	19	37	5	43
1571092	231	28	137	32	131	6	54	20
177271	74	178	222	17	39	87	82	26
4207913	0	8	10	0	0	1	4	4
1112121	60	42	70	51	105	22	49	13
4334624	69	15	33	30	8	88	46	56
390896	2	7	5	2	4	0	4	2
129394	57	17	13	628	165	256	39	38
2897325	0	0	0	0	29	0	0	0
786708	0	0	0	0	0	0	0	0
180235	85	89	122	77	14	112	103	64
185036	0	0	0	0	0	0	0	1
130335	124	69	626	358	13	141	337	46
259249	3	9	103	9	3	1	69	3
98048	599	2418	1421	454	219	1236	784	157
261892	2	1	2	1	0	0	0	0
1594231	175	69	1079	435	40	156	323	51
4374042	3712	3662	2936	1898	15407	3442	8741	4561
204111	2	0	0	0	26	0	0	0

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
274380	24	18	29	21	9	18	12	26
176957	168	212	99	158	20	226	183	254
198238	110	86	55	107	7	65	56	61
1110253	707	324	354	150	68	463	525	216
171079	27	29	8	12	1	24	32	5
174004	4	3	8	0	34	0	3	1
182712	365	71	140	91	39	92	30	93
4417539	23	121	3	12	6	17	72	20
1107303	242	26	18	30	32	134	75	89
310407	242	61	1449	574	52	245	552	59
201374	0	0	0	0	0	0	0	2
261409	4	2	59	59	0	5	0	1
320972	510	70	46	4	92	220	145	500
196974	11	7	11	22	5	16	14	10
345362	0	0	0	0	0	0	0	0
134065	1	1	3	0	1	4	0	1
191616	131	50	13	77	14	121	73	206
460953	0	0	0	0	0	0	0	0
174768	263	70	2327	868	133	774	743	333
312322	1	1	2	1	0	0	0	0
724472	25	40	14	51	12	41	30	19
207749	1	0	0	1	0	0	0	0
189730	3	1	0	0	1	0	2	0
187841	6	0	1	0	27	2	0	0
186073	310	320	289	114	62	208	146	222
1087825	10	0	73	20	0	7	9	2
47477	105	140	289	133	26	178	30	86
4296701	31	28	19	6	8	33	67	23
169428	28	12	17	20	28	15	5	58
306469	1	178	201	92	46	977	11	0
833390	25	3	92	43	4	25	27	17
315147	0	0	0	0	0	0	0	1
342962	1	0	0	0	25	0	0	0
929476	0	0	0	0	0	0	0	1
635059	85	35	47	1235	344	440	71	69
228310	0	0	0	0	0	0	0	0
172705	0	12	4	3	0	4	0	0
185177	32	16	24	35	5	61	10	29
413996	28	4	1	0	62	2	5	9
1106683	798	632	184	1288	113	502	342	499
4314257	2614	757	729	562	213	1470	1096	605
271013	0	0	0	0	0	0	0	0
264101	31	31	30	216	13	99	138	126
4402042	25	16	42	2	3	7	8	9
72820	0	0	0	0	0	0	0	0

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
194944	27	14	16	16	5	15	13	9
166535	1	0	0	0	1	0	0	1
247557	9	27	10	7	2	9	7	27
1871	51	61	61	35	253	63	168	79
350666	276	134	233	188	128	155	74	125
190242	25	9	8	14	1	2	15	33
100344	0	0	0	0	0	0	0	0
186338	4	1	1	0	7	0	0	3
542096	415	99	266	585	82	223	62	284
619224	50	23	31	24	39	19	9	107
179695	23	25	33	20	4	29	15	18
263664	0	0	0	0	0	0	0	2
265992	7	5	49	56	4	7	1	0
184209	25	2	0	2	139	4	2	0
261992	29	29	181	62	28	66	202	109
299858	143	96	58	126	30	88	30	114
259699	140	163	166	92	29	186	203	189
193723	0	0	0	0	4	0	0	0
204144	0	0	0	0	1	0	0	0
199403	0	0	0	2	1	1	0	2
1106468	3	19	46	4	6	6	30	2
176760	1	0	0	0	4	0	0	0
827592	700	669	1328	604	177	494	274	415
416043	1	0	0	0	0	0	0	1
258641	63	106	135	53	17	145	42	48
36647	17	14	22	32	5	22	14	24
258423	132	41	120	115	30	7	33	19
258421	0	0	0	0	0	0	0	0
186555	180	113	105	166	34	140	78	106
306699	30	17	7	12	5	32	39	15
335267	17	18	31	11	3	28	10	19
771177	152	65	32	15	25	29	18	34
204171	12	24	46	8	8	1	29	4
299267	0	0	0	0	0	0	0	0
264802	151	73	67	99	57	122	81	101
4296218	0	0	2	0	0	0	0	0
162005	15	16	49	6	2	17	43	9
176242	6	2	19	9	12	9	26	7
310751	1	189	124	76	16	826	6	2
813217	0	0	0	0	0	0	0	0
165430	2	0	1	0	0	2	0	0
522371	1	0	0	0	15	0	0	0
593043	2	0	0	0	14	0	0	2
304047	48	6	6	0	511	3	4	1
2084364	0	0	0	0	2	1	1	1

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
313724	0	1	1	2	1	0	1	0
2937207	3	4	5	1	12	5	10	6
175213	155	63	247	106	27	30	114	641
4480555	101	67	21	76	33	168	36	356
4480557	31	142	515	158	53	211	70	19
175077	131	143	108	445	40	251	103	129
188266	18	19	23	25	1	32	8	14
259578	5109	2147	3305	1306	240	2156	567	2466
177512	2	1	3	0	95	1	0	2
3319464	0	0	0	0	0	0	0	1
3390534	52	69	71	19	31	41	28	29
277067	328	100	346	505	255	291	12	278
199674	19	22	41	75	3	39	14	12
3920500	71	18	31	16	10	19	25	23
265483	1	0	1	0	0	0	2	1
399606	553	358	234	1724	149	642	348	581
192971	0	0	0	0	0	0	0	0
275218	197	113	156	88	17	127	139	130
228043	56	11	39	22	3	25	12	38
261486	70	164	51	39	16	96	93	87
297577	90	69	124	157	21	118	78	132
3150250	0	0	0	0	0	0	0	0
578016	9	1	0	0	111	0	0	0
637546	0	0	0	0	0	0	0	0
195691	35	30	37	46	4	113	20	19
4483570	1	0	0	0	4	0	0	0
4306262	159	9	1	5	3920	17	3	182
184451	1	2	14	15	1	36	3	2
184456	0	0	0	0	16	0	0	1
814952	0	0	0	0	0	0	0	0
264225	26	19	47	32	9	35	21	13
198865	7	2	13	3	18	0	5	3
4405128	0	0	0	0	0	0	0	0
3265889	3	3	6	9	0	7	1	4
1107652	0	0	0	0	0	0	0	0
195337	34	17	28	45	8	1141	19	99
196672	6	1	2	0	57	0	2	4
269726	4	1	0	0	0	0	0	0
179457	78	402	397	710	36	24	173	198
637934	103	91	92	45	63	74	127	68
262917	13	2	19	7	3	13	8	6
1108599	0	0	0	0	0	0	0	0
339329	67	28	93	131	3	64	19	36
2875735	76	7	1	0	456	6	1	0
4402834	2	98	17	19	2	108	22	20



Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
313898	33	33	32	31	14	50	23	29
176071	3	0	0	0	1	0	0	0
277497	52	454	372	258	10	401	135	55
349343	0	66	32	48	0	188	38	29
203605	44	151	353	85	33	8	228	46
4389125	28	2	0	1	16	0	0	0
170926	370	212	200	31	8	156	263	83
4448052	171	92	24	63	30	169	227	132
174698	217	147	190	356	34	326	385	168
332962	251	196	314	562	90	275	251	422
3610691	0	0	0	0	0	0	0	0
4390754	21	10	33	39	7	25	9	6
4457427	8	9	14	75	5	20	35	28
320169	0	0	0	0	5	0	0	0
265116	78	21	160	212	26	192	0	363
269125	123	58	106	55	148	81	39	376
4449518	0	0	0	0	0	0	0	0
561069	46	32	14	25	15	20	6	71
299171	152	197	190	40	13	133	55	82
40230	14	2	0	0	67	0	1	0
569818	63	29	63	54	26	63	16	49
319219	137	121	101	127	10	163	71	83
198964	47	140	241	72	32	5	194	36
618010	0	0	0	0	0	0	0	0
342075	31	24	38	25	12	19	35	24
135956	10	4	3	3	6	6	4	13
3919797	15	25	12	95	3	114	7	1
265301	25	15	29	38	6	33	8	11
578058	0	0	0	0	0	0	0	0
10196	0	0	0	0	0	0	0	0
259511	86	65	62	31	3	148	11	29
183619	5	0	0	0	6	0	0	0
261076	144	31	131	41	11	40	190	136
270391	12	1	0	0	84	0	0	0
4440624	1150	704	10	604	39	919	286	201
4460604	38	17	24	30	3	39	6	15
95424	51	32	17	47	4	49	41	102
436341	91	38	61	140	21	89	40	65
295075	8	25	16	16	0	14	8	6
1678333	12	28	25	26	9	26	12	16
243185	0	0	0	0	0	0	0	0
175998	82	57	230	55	35	47	27	91
3267277	0	0	0	0	0	0	0	0
1931575	145	239	232	65	78	84	71	147
337784	0	0	0	0	0	0	0	0

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
1921818	27	41	36	22	5	27	30	14
3172949	205	362	1233	180	53	36	1483	151
3172943	0	0	5	0	8	0	0	2
645358	1	0	0	0	5	0	0	0
838685	43	33	20	13	6	45	32	4
828284	0	0	0	0	0	0	0	0
1111755	1	3	1	1	1	2	2	0
188878	148	143	162	219	67	251	219	141
4401580	5	0	0	0	2	0	0	0
317854	7	1	0	2	3	0	0	11
4256470	0	0	0	0	2	0	0	0
839558	1	0	0	0	1	0	0	0
185743	107	131	182	77	26	116	77	63
4378740	0	0	0	0	568	0	1	1
266206	34	18	47	41	10	44	13	12
270513	9	6	53	68	2	12	0	0
334697	1185	238	44	137	611	501	6	1812
4352471	0	0	0	0	0	0	0	0
4426367	3	0	0	0	3	0	0	0
209030	4	1	0	0	6	0	1	0
190646	43	29	23	18	6	35	50	49
172389	46	32	62	26	10	145	9	10
213896	46	27	10	24	5	29	12	87
161762	254	248	338	177	47	149	48	206
174441	269	1090	604	199	89	451	308	58
135625	71	50	231	63	32	42	26	126
4365109	306	75	23	45	160	136	8	443
832558	179	76	34	84	26	175	286	135
4464113	1	4	3	3	1	4	0	1
1105376	0	0	0	0	0	0	0	7
346275	45	24	22	29	8	24	7	29
3505032	8	0	0	2	7	0	0	14
4355436	927	76	203	17	45	122	37	623
4480176	137	31	101	58	1	16	22	5
344527	90	132	135	104	17	63	33	48
4372003	28	62	116	36	40	18	306	83
172464	0	0	0	0	0	0	0	0
289709	0	0	0	0	1	0	0	0
174854	356	116	207	87	97	304	110	293
830014	100	60	100	213	62	77	70	115
189666	18	21	12	23	6	31	25	16
304416	167	120	106	50	15	117	72	68
214835	45	18	20	39	12	51	4	26
260346	23	101	102	67	9	90	16	26
195445	7	4	19	16	2	17	4	11

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
263420	0	0	0	0	10	0	0	1
187959	5	1	13	3	9	0	6	0
199707	1	0	0	0	10	0	0	0
175485	8	1	0	0	42	0	0	0
193064	226	179	124	46	31	129	81	29
174285	141	126	1156	276	155	127	82	973
1110752	6	2	1	0	35	1	2	4
177414	2	1	0	0	23	1	0	5
882782	1	0	0	0	8	0	0	1
180465	19	12	51	35	17	20	1	44
1113553	1	0	0	1	1	0	0	11
347490	99	12	98	161	14	94	24	58
322991	13	24	141	7	8	1	62	3
4327628	0	0	0	0	0	0	0	0
819999	0	0	0	0	0	0	0	0
4402077	745	177	818	10	14	680	15	6
63144	3	0	0	0	2	1	1	8
233691	390	45	74	113	28	528	3	19
1108453	454	172	830	370	971	477	1711	671
38278	0	0	1	0	1	0	0	0
181419	63	54	24	35	9	18	15	39
183675	252	798	189	311	84	566	641	1064
259901	104	1825	1281	1478	41	1081	248	105
322839	1	71	0	22	5	0	26	2
194388	36	15	15	18	3	20	2	28
307416	3	1	5	7	0	14	0	6
190063	1	0	6	2	0	18	0	0
313274	271	120	158	118	25	434	327	101
1136443	7770	8314	7612	5052	40906	9338	29510	13522
421893	72	44	45	183	23	87	47	64
3325760	25	29	67	29	8	18	26	20
343130	4	6	3	35	1	11	3	6
174260	16	21	12	22	7	23	29	46
4453627	23	346	188	241	10	192	42	31
348785	25	14	28	155	27	81	39	35
189789	96	21	26	23	9	18	5	80
3056461	2	16	10	6	3	3	4	11
188785	0	0	0	0	0	0	0	0
354736	224	218	213	265	104	353	347	218
263953	64	35	23	33	11	37	12	29
635304	0	0	0	0	0	0	0	0
309663	51	16	21	281	5	136	14	58
198604	7	21	46	6	3	0	59	5
205160	1	0	0	0	6	0	1	4
264657	7	1	0	0	9	0	2	3

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
273928	18	15	19	7	2	21	27	13
197025	0	0	0	0	0	2	0	0
157999	38	25	147	375	42	148	27	41
385545	173	116	112	766	102	263	119	215
186777	277	164	4	131	8	170	55	76
30067	73	49	79	56	33	73	114	73
177205	6	0	0	0	12	0	1	1
4401375	23	60	109	62	15	10	69	42
176139	68	46	63	41	6	34	9	39
3998912	12	1	36	0	0	0	442	18
175114	42	13	48	21	48	30	84	23
176868	143	56	70	31	15	60	81	45
191878	1	2	0	0	0	1	1	1
259195	90	91	84	35	13	56	61	19
174791	1	0	0	0	8	0	0	0
2624257	3	0	1	0	19	0	0	0
271734	0	1	0	0	0	4	0	0
174420	0	0	0	0	0	0	0	0
1517779	3	0	2	0	24	0	1	1
1108378	95	145	110	51	21	115	51	44
319816	48	18	25	36	21	28	17	12
606063	0	0	0	0	0	0	0	0
4420272	35	35	184	415	40	158	28	43
266091	66	30	36	53	15	32	8	37
177014	4	0	0	0	52	0	0	23
2978254	112	53	102	42	8	74	20	72
51677	145	417	1193	96	345	110	388	301
345211	69	32	100	45	20	56	23	23
4476330	72	167	180	57	32	148	21	210
113417	0	0	0	0	9	0	0	0
174651	5	16	19	20	2	8	60	80
263366	5	20	14	51	1	24	4	8
178068	0	0	1	0	27	0	0	4
273904	14	11	94	145	8	14	1	2
258559	220	369	397	2603	303	779	1092	1167
2315700	18	52	29	107	41	43	14	46
4418586	9	2547	127	192	21	3659	676	654
276629	1	0	0	0	1	0	0	0
4424327	7	3	34	136	62	80	6	22
831301	0	0	0	0	0	0	0	0
190026	0	0	0	0	0	0	0	0
4476780	15	68	97	35	9	18	45	66
570367	78	33	85	65	29	61	42	59
210950	0	0	0	0	8	0	0	0
4366524	155	23	65	13	29	20	21	55

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
272192	73	74	48	28	14	96	179	83
136604	127	21	4	76	14	23	14	14
192316	1	1	0	0	14	1	0	5
2072645	0	0	0	0	1	0	0	0
181719	0	0	0	0	0	0	0	0
292892	34	12	44	71	4	61	3	32
340600	23	11	15	11	5	21	14	30
261590	0	0	0	0	0	0	0	0
168984	0	0	1	0	0	8	0	0
1703712	0	0	1	0	0	0	0	1
264345	0	0	0	0	0	0	0	0
209845	13	15	11	37	10	9	32	23
198209	0	0	0	0	0	0	0	0
171532	23	16	3	0	0	34	1	5
299600	9	7	11	31	3	9	19	11
273967	151	136	24	301	21	292	206	157
4449984	0	0	0	0	0	0	0	1
325850	6	0	0	0	14	0	0	0
801260	4	0	1	0	104	0	0	2
259631	54	31	41	91	11	100	25	54
278609	1657	850	525	446	361	1705	1800	874
264155	32	23	61	13	41	26	134	29
333576	1	1	3	11	0	7	1	1
194665	3	1	3	0	1	4	3	1
194662	77	130	47	29	9	101	64	76
2897332	31	15	3	35	8	32	3	21
178490	52	97	54	71	18	88	31	42
262801	2930	2522	632	5190	347	2136	1536	2442
4471130	13	18	56	60	0	49	147	33
4471135	52	68	40	30	7	38	19	14
259275	27	14	13	9	3	26	31	15
198194	24	20	17	7	2	14	51	17
575261	33	22	31	47	7	27	8	30
258849	1	0	1	0	5	0	0	1
4045882	3	0	0	0	62	1	0	3
177917	4	18	27	4	3	1	32	2
298973	62	34	20	52	9	34	8	47
835456	1	0	0	0	0	0	0	0
276663	13	35	14	23	5	19	13	4
3868285	1743	504	837	5813	172	3210	5032	4585
276484	61	120	418	192	57	31	378	103
192598	218	41	203	127	75	156	131	81
4343528	286	102	305	32	43	1441	712	47
260233	40	28	100	133	46	88	219	59
174770	252	66	130	122	6	224	139	61

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
272953	21	17	14	14	3	33	26	23
176886	0	1	7	2	2	0	3	0
4466618	0	0	0	0	0	0	0	0
259870	92	71	94	10	68	70	25	358
4450025	88	28	351	229	18	90	127	36
661055	98	12	140	24	31	6	29	40
210292	1118	618	554	315	187	555	964	838
166099	22	5	8	3	1	2	3	5
345582	22	22	41	15	5	40	35	10
261334	59	46	50	44	6	44	18	15
136783	86	62	307	88	57	45	26	251
314424	807	253	329	509	161	525	50	562
771140	181	62	80	2503	701	793	156	140
177930	42	13	16	261	6	72	27	49
274095	23	9	14	6	8	20	16	7
185519	5	46	103	21	9	55	13	24
162639	6	0	0	0	46	0	0	1
578649	67	33	61	91	14	54	26	65
312311	125	58	132	80	37	44	85	372
569522	403	190	397	421	142	345	97	338
2212505	7	1	0	0	217	0	1	15
214120	1	0	0	0	2	0	0	1
258411	179	438	354	397	37	351	354	129
4371295	0	0	0	0	0	0	0	0
2797565	2	1	5	2	8	2	3	2
1991255	38	41	38	16	18	49	11	28
261350	15	1	0	0	19	0	1	13
14035	34	5	3	5	9	1	0	1
264325	0	0	0	0	0	0	0	0
437137	1	1	0	0	7	0	0	7
4481359	78	85	46	66	48	72	80	301
112720	0	0	1	0	3	0	1	0
311788	13	2	0	0	44	0	1	7
833381	15	9	21	28	7	20	16	19
177952	236	179	167	143	61	125	137	149
4483264	50	56	43	23	11	37	37	29
310781	0	0	0	0	0	0	0	0
4477372	8	13	19	90	2	22	17	27
342685	0	0	0	0	0	0	0	0
4413888	1	0	3	0	0	3	0	1
273091	5	2	0	4	3	0	0	0
324013	2	0	0	0	5	0	0	0
177371	5	0	2	0	230	0	1	14
4393892	1	3	4	4	0	2	0	4
4378477	3	1	1	4	3	1	0	24

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
4327763	83	36	49	47	17	59	27	72
1902400	56	31	32	317	11	125	36	87
181091	24	15	131	83	11	81	11	34
4384058	0	0	0	0	0	0	0	0
1112373	0	5	10	5	2	0	2	4
180879	896	466	406	302	141	860	451	270
356226	0	0	0	0	5	0	0	0
197706	80	39	29	51	9	63	12	90
264468	2	1	2	0	1	2	1	0
186549	81	50	18	25	22	35	15	158
185550	13	2	0	0	81	0	0	5
177748	63	64	40	65	7	182	28	25
189309	17	2	33	0	10	0	0	15
688800	90	15	66	24	25	39	44	34
3013444	0	0	0	0	1	0	0	0
174056	1	0	1	0	11	1	0	1
583266	94	67	122	260	27	152	74	79
180077	56	1	3	1	1950	8	2	87
813805	0	0	0	0	0	0	0	0
381666	7	3	0	0	4	0	0	1
4449524	0	0	0	0	0	0	0	0
4441792	6	1	1	4	5	4	5	11
259006	38	18	15	27	2	15	8	19
190114	3	3	9	4	0	4	2	3
175227	13	11	20	20	12	26	21	24
4464787	160	53	10	550	8	153	69	29
4433554	0	0	0	0	0	0	0	0
228798	1	1	3	0	0	0	4	0
1109929	271	422	246	212	30	328	116	218
191098	76	88	45	108	24	137	70	53
196664	0	4	8	0	3	0	5	0
279026	23	83	30	47	7	38	23	17
179958	0	0	0	0	0	0	0	0
206324	2	0	0	0	5	0	0	0
174071	27	29	31	86	9	44	60	65
288128	55	40	37	26	3	41	45	46
4453609	0	0	1	0	10	0	0	0
356164	2	1	3	0	31	0	1	0
577170	8	1	0	0	41	0	1	1
185125	424	233	229	302	89	366	439	550
185126	0	1	24	16	2	68	5	11
130663	5	0	0	0	2	0	0	0
277200	81	72	70	72	27	92	55	63
4364243	4	2	2	0	0	2	1	1
182470	78	24	32	25	6	23	8	35

Table S3 B

ID	T	T.1	T.2	T.3	T.4	T.5	T.6	T.7
166718	1	0	0	0	0	0	0	1
176008	82	72	80	209	19	132	63	76
1106101	9	1	0	0	178	1	0	6
584137	17	16	15	5	2	9	4	14
268384	6	1	0	1	5	1	2	15
332608	493	202	232	50	157	196	683	99
303251	0	0	0	0	0	0	0	0
214919	0	0	0	0	2	5	0	0
267388	5	326	401	185	122	2064	25	6
187181	108	287	22	65	37	70	133	50
228556	0	0	0	0	0	0	0	0
129990	36	4	0	1	63	2	0	8
271572	40	50	25	477	9	161	112	72
3197419	9	7	41	29	3	10	47	15
187233	3	9	20	8	11	8	1	13
420168	36	29	18	5	8	38	59	20
189346	116	162	61	196	7	196	78	119
4472195	194	160	141	108	60	125	112	147
199137	13	17	22	18	8	21	15	11
264294	70	31	78	112	20	37	14	65
268844	39	53	55	422	11	310	105	47
179427	7	0	0	0	98	0	1	4
179426	78	30	30	44	12	55	20	23
331411	8	3	1	6	1	14	1	2
230268	466	402	135	232	57	210	251	158
271439	78	39	71	152	12	104	82	89
310760	18	8	15	8	7	4	6	56
170335	0	0	0	0	0	0	0	0
189476	1463	726	2384	435	640	462	1204	1445



Table S3 C. Rederived (R) *HBUS* mice

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
181348	4	5	1	11	0	1	0	0	14	3	4	15	2
3957916	13	10	24	19	6	1	7	6	81	47	5	24	90
244484	15	8	6	27	9	26	29	4	45	6	16	12	31
1111328	0	0	0	0	0	0	0	11	12	41	0	9	19
197452	21	6	6	171	4	39	50	30	42	2	1	32	120
269815	50	2	0	9	3	5	8	1	19	2	6	4	13
363383	0	0	0	0	0	0	0	0	0	0	0	0	0
175080	46	32	112	29	37	23	12	21	0	53	1	0	2
179853	0	3	3	3	2	0	0	0	0	0	6	7	2
183089	0	38	10	54	3	11	8	5	33	16	4	1	0
263171	63	0	0	9	13	19	24	1	0	0	3	3	1
192222	0	0	0	0	0	0	0	0	0	0	0	0	0
276509	33	8	36	5	19	16	20	24	125	10	16	18	27
423455	8	14	35	29	25	12	13	5	35	10	18	2	16
267502	0	0	0	0	0	0	0	2	0	0	2	1	0
172163	440	429	1268	1366	79	8	1	48	62	0	0	115	24
828435	51	15	0	3	1	3	3	4	0	7	14	1	12
289306	45	22	9	27	11	12	22	2	19	3	9	17	30
290253	141	68	185	154	52	118	84	21	347	31	50	27	65
216495	12	2	6	5	7	5	3	11	12	1	4	5	9
4329450	60	5	2	16	1	6	8	0	6	2	3	4	6
271418	7	9	46	36	21	24	36	51	85	7	5	6	135
206817	11	3	29	11	13	9	4	40	16	7	12	13	20
197891	28	6	22	13	17	10	4	6	52	5	5	15	17
205134	236	237	361	459	158	61	51	114	313	42	54	86	95
4352747	4	13	13	17	2	4	8	25	4	2	2	11	14
182043	0	0	0	0	47	27	22	10	2	1	1	4	1
274297	377	139	118	230	53	127	176	42	177	65	109	151	228
197782	16	5	4	13	6	0	4	2	1	3	2	8	3
1105328	8	1	10	55	3	1	3	0	0	2	0	1	4
274438	95	24	27	49	23	11	22	5	16	9	11	21	46
191948	0	0	0	0	0	0	0	0	0	2	0	0	5
429917	1	0	2	0	0	1	1	1	6	1	1	4	2
22659	4	281	35	784	46	41	40	11	40	1	11	28	20
187272	0	0	8	24	0	7	6	34	0	0	0	2	1
277388	72	60	121	90	31	59	47	18	231	29	38	13	43
318079	2	87	27	123	6	9	5	0	16	9	1	0	0
148056	0	0	0	0	0	0	0	0	0	0	0	0	0
270385	1	0	0	1	0	2	4	0	0	4	1	5	8
270382	2	115	28	52	7	25	35	6	27	8	1	5	1
301233	31	1	0	6	1	11	20	2	22	0	24	8	1
10518	36	65	16	38	8	2	8	0	0	38	9	7	0
827195	10	138	205	123	14	19	7	6	124	149	2	6	204
10512	0	0	0	0	0	0	0	0	0	0	0	0	0

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
338640	44	12	7	5	2	38	19	13	18	14	113	29	15
752584	0	0	0	0	0	0	0	0	0	0	0	0	0
198998	92	3	11	22	8	22	22	4	33	5	35	6	6
4357147	178	279	100	213	72	655	67	204	25	87	398	238	141
196122	1	0	0	0	0	0	0	1	0	0	0	1	3
839200	0	0	0	0	0	0	0	0	4	0	1	0	1
4483037	481	207	60	307	111	64	210	102	21	121	318	134	49
376862	5	23	18	26	0	6	20	10	22	11	11	18	5
148671	20	4	3	10	1	6	0	10	2	2	1	3	6
194504	35	0	1	0	0	0	0	0	61	4	6	26	41
4442899	14	2	4	1	2	5	17	7	18	6	33	6	12
278712	16	5	20	6	4	10	8	64	29	24	36	21	10
4469233	5	10	7	7	2	8	7	4	1	6	0	8	5
184484	5	0	0	2	1	0	2	5	31	1	14	3	7
655793	38	5	7	33	5	15	18	3	47	12	15	21	5
405780	0	0	0	0	0	0	0	0	22	0	1	58	1
174824	42	101	21	250	31	70	50	0	0	0	0	9	16
181193	5	27	0	3	0	21	12	2	28	2	0	11	0
3974550	0	51	6	124	10	5	7	2	0	0	2	4	2
173916	1	0	0	2	0	0	0	0	0	1	1	0	0
197623	364	365	630	624	1261	769	466	144	605	53	128	210	229
628218	0	0	0	0	0	0	0	0	2	1	0	34	12
175706	90	421	554	462	80	88	47	647	857	296	247	248	106
183106	24	21	32	60	46	5	3	2	9	0	1	1	3
267958	194	60	8	113	45	47	67	5	3	6	38	186	29
189288	52	6	8	38	6	7	0	1	29	0	9	4	4
177621	209	24	4	87	11	8	16	0	21	3	3	12	7
829240	0	0	0	0	0	0	0	0	0	0	0	0	0
2645488	37	56	1	34	10	14	19	3	0	8	4	1	7
186886	10	7	47	28	2	10	2	0	6	56	5	4	3
210262	2	4	14	14	0	7	1	9	5	6	0	5	3
271822	92	63	84	168	48	11	26	6	129	23	67	29	122
196746	4	1	11	16	5	1	14	1	43	0	10	5	1
179343	27	11	22	32	25	5	5	2	4	1	0	0	1
4435934	2	10	3	23	2	2	1	2	17	0	0	0	1
746679	0	0	0	3	0	0	0	0	0	0	0	0	0
4481506	0	0	0	0	0	0	6	0	0	0	0	0	2
4357315	76	17	102	109	19	41	28	4	11	20	27	16	88
452014	14	3	17	23	2	10	8	2	6	4	4	4	29
68844	248	60	21	188	18	11	38	1	1	1	115	0	1
272593	0	1	1	3	1	0	4	0	3	4	0	1	17
182995	20	98	225	116	118	26	34	53	1	42	53	3	4
4383135	233	0	31	267	1	23	0	86	1214	443	21	528	88
328143	10	4	9	5	14	9	15	0	49	0	3	12	11
185614	13	12	54	11	28	15	12	21	1	19	21	0	1

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
4378081	0	1	0	0	0	0	0	6	0	0	0	0	0
162539	0	0	2	0	0	0	0	0	0	0	6	0	0
4459184	1	0	0	2	0	1	1	13	57	0	0	2	0
586453	0	11	1	2	1	1	15	0	0	6	1	0	2
827487	0	1	0	10	1	0	0	0	0	0	0	0	0
184966	0	0	0	0	0	1	0	48	118	5	1	6	162
209028	24	13	40	25	16	15	7	40	23	15	44	11	2
197600	68	15	1	34	14	20	17	2	15	27	5	21	59
4446120	24	13	12	76	3	8	0	1	0	0	18	3	0
356187	10	1	4	14	2	13	0	1	2	8	1	5	6
1108078	1	8	0	8	1	0	1	1	2	0	0	11	5
1105589	17	2	10	3	15	7	7	16	40	5	11	10	4
4342104	220	337	103	247	100	1111	135	352	46	115	605	453	239
180476	5	0	0	3	0	1	3	2	6	2	2	1	0
4335302	4	0	4	15	6	7	0	11	4	0	1	2	2
158302	0	0	1	0	0	0	1	0	25	0	0	0	1
445144	5	6	9	11	5	15	16	11	79	7	6	15	18
184753	3	3	6	36	3	7	3	4	21	3	7	31	61
192712	297	301	436	640	163	182	128	200	690	103	111	206	239
4414242	14	3	0	13	3	11	4	2	5	1	23	7	6
255098	0	6	0	16	1	0	0	0	0	0	0	0	0
173892	102	19	2	52	4	1	8	3	18	6	17	11	17
4329776	16	3	0	10	0	5	6	4	21	3	20	6	7
4483585	0	0	0	0	0	0	0	10	21	0	1	1	30
114111	0	0	0	0	0	0	0	0	0	0	0	0	0
214715	44	38	59	57	155	32	21	2	18	0	1	9	5
262159	1	0	0	1	1	3	2	1	1	0	0	0	1
277364	183	439	779	686	205	126	77	577	544	113	682	157	451
195433	5	0	2	2	2	14	2	2	3	2	1	1	1
4449236	188	462	678	485	680	295	298	30	89	34	7	11	358
269401	30	5	16	26	3	7	3	2	19	18	5	10	17
261177	49	118	217	162	9	5	6	397	41	60	488	140	4
261178	0	0	0	0	0	0	0	22	2	0	0	2	7
190673	8	8	23	49	8	5	9	17	15	9	6	7	25
176836	15	3	1	13	5	5	1	0	20	4	1	3	1
188116	2	0	0	2	1	1	0	1	14	1	0	14	1
234121	2	0	0	1	0	0	0	2	2	183	2	4	1
144207	0	38	3	62	6	1	0	0	0	0	0	3	0
188786	102	24	3	20	6	3	7	2	24	2	76	4	11
196856	8	2	0	19	0	1	1	0	4	0	3	1	4
214116	2	58	39	65	67	137	56	723	901	8	2	3	58
265047	0	0	0	0	0	0	0	32	0	2	0	5	6
415491	73	62	15	36	5	18	17	12	30	9	3	18	6
4390365	0	0	0	0	0	0	0	2	228	57	38	133	259
174667	17	13	2	48	8	7	27	0	17	3	33	8	24

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
2901239	0	1	0	1	0	0	0	0	0	17	2	0	0
273687	1	0	0	0	5	25	6	16	61	7	36	53	8
319165	26	10	1	33	2	0	2	0	7	0	7	1	5
269426	33	24	4	52	17	9	36	1	5	14	29	27	11
270303	72	26	20	65	14	36	14	10	54	42	18	48	44
329271	1	0	3	3	0	1	0	13	3	2	2	7	3
198024	37	1	2	4	3	6	3	3	18	3	4	14	5
896545	0	0	0	111	1	0	0	1	0	0	0	0	0
263705	11	13	14	22	2	16	8	6	10	7	7	10	7
174418	218	21	4	116	50	33	1	0	1	54	255	6	0
174417	0	0	0	0	0	0	0	13	1	0	0	0	0
184329	12	16	82	27	36	8	17	52	0	34	42	2	2
192342	0	0	0	4	0	0	0	0	0	0	0	0	0
4453773	81	193	34	97	23	10	13	0	0	106	16	13	0
372473	0	0	0	1	0	0	0	0	0	0	0	0	0
199698	71	46	110	157	91	15	11	18	57	5	6	8	21
191067	1	0	0	1	1	24	7	4	24	3	1	10	12
453896	54	76	123	134	139	37	34	75	110	11	22	45	77
179548	69	61	124	102	168	17	29	49	12	5	9	31	31
179547	759	109	30	437	26	32	34	11	106	21	39	27	184
113978	48	115	22	62	8	18	15	0	0	221	48	21	0
3449666	0	0	0	0	0	0	0	0	0	0	0	0	0
4468234	0	0	0	3	0	14	5	15	25	5	17	43	83
4466275	21	12	22	45	5	2	1	0	10	7	0	5	2
186742	0	0	0	0	0	0	0	0	0	114	0	0	0
308332	0	0	0	0	18	15	38	12	340	3	0	347	84
318819	187	11	2	21	6	8	26	23	14	11	6	7	32
4379449	0	0	0	0	0	0	0	2	87	18	12	54	161
105109	4	8	33	37	0	7	2	2	10	6	1	6	15
261132	172	33	53	196	9	30	7	9	139	20	2	23	26
808794	161	28	14	121	14	8	5	2	49	6	22	18	6
407393	20	31	44	32	58	21	26	41	59	10	10	28	43
267406	4	2	3	15	5	16	6	0	0	2	0	0	6
672655	39	70	162	121	53	21	17	66	88	12	78	27	62
260989	0	29	2	10	0	0	0	0	0	0	0	0	0
2877100	31	45	19	67	61	82	89	1	1	11	22	24	3
305787	8	23	47	25	1	15	13	13	57	2	5	11	4
302641	6	1	3	5	1	6	6	1	20	21	2	1	4
1992	49	14	13	225	40	48	10	13	2	3	18	13	12
353073	42	12	52	14	49	21	21	10	101	3	10	16	16
134762	1190	1080	1682	2128	1440	1185	1061	332	4665	209	402	1157	840
175646	19	11	2	40	37	14	18	2	162	2	0	2	45
263518	35	11	10	32	11	20	8	44	105	48	24	41	81
2137001	26	29	14	312	14	31	21	38	115	23	46	160	227
3231096	9	9	15	16	17	14	12	27	33	10	12	18	29

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
176444	449	45	320	784	138	258	92	461	405	251	249	483	645
261114	0	12	0	3	0	0	0	2	0	2	0	2	5
191216	0	1	11	13	1	8	3	48	11	4	6	5	5
191218	14	221	71	401	25	43	55	10	105	49	15	4	4
167509	7	4	2	18	2	25	0	25	4	1	5	5	5
175416	2	0	0	0	0	2	1	21	0	11	1	8	1
183829	0	0	4	3	0	16	10	132	0	25	17	17	11
4462541	1	594	0	22	0	0	0	1	0	4	0	244	2
2154095	88	24	8	118	35	7	3	2	8	3	15	5	4
4416434	121	330	16	63	5	297	288	1	13	5	56	12	7
440840	52	11	6	39	9	38	61	7	13	2	59	4	5
40798	30	8	4	18	4	15	22	5	53	3	8	26	12
229452	44	36	50	108	34	10	11	7	0	2	1	36	19
229455	14	4	8	20	9	5	5	0	2	1	6	1	3
178480	13	14	20	9	5	48	49	0	3	1	36	59	3
4454025	1	2	0	0	1	0	0	0	2	0	0	3	0
4470092	2	0	0	2	0	0	1	0	55	2	0	12	2
259846	0	0	0	0	0	0	0	29	1719	52	5	484	123
177068	256	211	22	140	9	10	41	9	107	10	131	25	59
97263	0	2	0	1	1	1	3	4	9	1	1	1	2
197099	66	4	3	10	7	10	15	3	18	9	16	23	29
265976	13	0	1	2	1	1	0	0	5	3	2	2	4
324999	3	2	1	0	0	21	12	4	19	2	5	16	1
262677	21	2	6	11	2	6	1	3	1	9	5	9	0
647320	39	14	14	100	9	0	5	0	27	3	2	6	10
174573	102	78	157	135	210	21	24	54	26	10	13	45	49
174571	7	1	0	2	0	0	0	11	102	4	1	38	22
1571092	0	0	0	0	0	0	1	0	332	12	0	218	30
177271	606	992	272	786	308	754	66	224	8	32	455	289	170
4207913	12	18	34	25	6	6	4	3	4	3	2	11	5
1112121	0	1	0	0	0	1	0	4	5	7	3	27	26
4334624	1	0	0	0	0	0	0	1	74	0	11	10	3
390896	18	53	94	63	62	15	15	35	37	10	12	11	17
129394	0	1	0	0	0	0	0	9	0	0	0	0	0
2897325	0	0	0	0	0	0	0	0	0	0	0	0	0
786708	0	0	0	0	0	0	0	0	0	0	0	0	0
180235	1	0	0	0	0	32	16	21	46	38	9	49	70
185036	39	31	33	92	19	1	3	1	6	5	3	7	8
130335	0	0	0	0	0	0	0	8	5	0	0	1	0
259249	0	0	4	2	1	1	1	0	0	147	131	1	2
98048	94	20	10	77	5	31	2	2	16	9	42	83	35
261892	1	2	2	12	10	29	5	0	9	14	1	41	9
1594231	0	0	0	0	0	1	1	53	2	2	0	1	1
4374042	500	7844	8517	937	4918	12297	17013	12060	6445	8374	12740	11615	14504
204111	53	3	32	16	15	16	5	107	50	45	43	23	58

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
274380	4	1	1	7	1	14	16	4	20	1	17	15	10
176957	75	1	5	11	4	1	5	3	45	12	6	7	7
198238	7	2	0	1	0	0	0	2	2	2	17	2	19
1110253	393	14	30	201	25	58	35	24	54	30	20	43	73
171079	11	2	1	3	2	1	3	1	20	1	4	3	5
174004	111	124	197	270	158	120	66	190	578	70	139	183	224
182712	0	0	0	0	0	0	0	0	0	0	0	0	0
4417539	0	0	0	0	0	0	0	0	0	0	0	0	0
1107303	0	0	0	0	0	0	0	0	0	60	0	0	1
310407	0	0	0	0	0	0	0	63	4	0	0	0	0
201374	0	11	0	9	1	0	1	0	0	0	0	0	1
261409	8	5	8	86	3	13	16	6	19	3	0	3	65
320972	3	0	0	0	0	1	1	3	0	84	5	29	79
196974	16	20	7	20	18	10	9	9	7	2	0	4	8
345362	0	0	0	1	0	0	0	0	0	0	0	0	0
134065	208	123	18	426	103	69	276	0	0	1	34	102	28
191616	151	66	30	171	21	72	119	34	194	11	36	149	69
460953	218	393	541	896	282	188	183	373	299	130	236	433	47
174768	0	0	0	1	0	0	0	88	2	4	0	0	0
312322	6	1	6	2	3	4	2	3	11	0	1	1	3
724472	0	0	0	0	0	1	0	0	8	7	0	1	1
207749	0	0	0	0	0	0	0	0	0	0	0	0	0
189730	19	50	76	77	37	24	30	83	51	17	10	43	24
187841	6	15	3	87	9	9	5	10	33	7	4	47	64
186073	40	65	35	115	60	59	62	0	0	5	24	15	0
1087825	0	0	0	0	1	0	1	0	1	1	1	1	0
47477	1	0	0	2	10	4	2	2	1	1	0	3	0
4296701	105	15	21	49	8	4	1	0	4	0	5	3	4
169428	6	96	18	60	40	56	31	34	108	8	5	25	49
306469	78	62	26	26	66	95	17	9	63	4	110	0	145
833390	16	0	1	3	2	2	2	7	34	1	2	49	0
315147	0	0	0	0	0	1	2	1	0	1	0	0	0
342962	0	0	0	0	0	0	0	0	0	0	0	0	0
929476	0	0	0	0	0	0	0	0	0	0	0	0	1
635059	0	0	0	0	0	0	0	21	0	0	0	3	0
228310	0	0	0	1	0	0	0	0	0	0	0	1	0
172705	696	202	68	285	144	228	235	127	403	8	0	0	164
185177	2	1	0	1	2	1	14	0	60	0	0	20	8
413996	204	300	439	645	454	321	243	431	801	54	122	357	687
1106683	11	0	0	0	0	35	6	7	195	7	7	103	3
4314257	1046	193	30	532	36	80	57	25	304	54	77	72	393
271013	8	226	50	105	22	9	10	1	11	4	1	3	1
264101	271	32	50	63	23	93	145	3	261	53	3	65	83
4402042	8	43	33	41	28	42	24	0	0	0	0	0	0
72820	0	0	0	1	0	0	0	0	0	0	0	0	0

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
194944	133	1	4	13	3	0	3	0	6	1	21	5	5
166535	10	1	3	11	2	2	1	4	6	20	6	3	2
247557	33	3	7	15	3	8	2	0	1	3	4	2	1
1871	6	76	80	9	45	161	246	225	78	136	181	130	208
350666	119	107	50	133	90	104	73	56	126	11	15	95	104
190242	5	17	7	30	8	18	12	13	15	11	16	1	13
100344	0	0	0	0	0	0	0	0	0	0	0	0	0
186338	0	0	1	0	2	1	0	1	1	1	2	2	2
542096	1063	273	117	948	99	57	153	17	641	27	414	182	54
619224	7	104	9	51	44	57	42	66	152	11	5	47	78
179695	93	1	2	7	1	1	2	0	3	3	11	4	5
263664	94	74	142	165	173	89	98	125	46	14	34	138	133
265992	21	13	6	187	9	14	8	5	14	2	0	9	39
184209	23	36	19	317	17	55	31	54	132	32	55	208	380
261992	245	53	10	471	11	49	34	0	40	0	75	11	177
299858	47	45	4	25	2	5	6	6	30	4	24	5	12
259699	263	67	67	146	39	21	40	10	20	16	29	39	53
193723	2	5	14	13	5	8	2	5	16	1	5	3	3
204144	3	6	3	9	13	9	8	5	2	0	4	1	18
199403	7	59	1	37	2	8	5	1	20	3	1	6	14
1106468	1	3	3	2	3	7	7	15	34	4	7	7	26
176760	6	6	11	9	8	2	5	28	12	4	17	4	5
827592	151	4	3	57	1	2	2	1	1	0	14	9	212
416043	130	90	206	194	248	39	38	63	42	12	15	61	62
258641	0	0	0	0	0	0	0	37	0	1	0	5	11
36647	195	45	15	125	32	15	37	6	38	5	14	36	59
258423	0	0	0	2	0	0	0	2	0	2	59	45	33
258421	5	46	7	35	4	14	15	3	3	9	1	0	27
186555	27	17	2	39	1	3	0	1	26	13	20	2	10
306699	10	12	9	15	2	12	9	1	35	3	0	2	2
335267	13	1	2	1	16	3	3	0	10	1	1	2	3
771177	0	0	0	0	0	0	0	0	13	41	0	15	59
204171	15	3	24	25	15	4	6	7	19	4	0	2	5
299267	0	0	0	0	0	0	0	0	0	0	0	0	0
264802	6	0	2	3	11	7	3	1	3	32	1	15	5
4296218	30	15	15	17	4	5	1	0	0	17	4	14	15
162005	58	15	8	33	4	12	3	7	21	16	11	27	19
176242	0	0	5	0	15	26	5	7	16	2	2	14	0
310751	13	3	1	3	9	12	5	0	8	0	34	0	16
813217	0	0	0	1	0	0	0	0	0	0	0	0	0
165430	18	4	2	29	3	9	8	4	25	1	1	19	0
522371	4	23	19	41	5	2	1	17	5	14	9	10	3
593043	0	0	0	0	0	0	0	1	0	2	3	1	0
304047	761	1469	3058	2879	446	632	1178	1881	2065	315	1135	3737	4633
2084364	0	0	0	1	0	0	0	0	0	1	0	0	1

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
313724	1	0	0	0	0	0	0	0	3	2	0	1	0
2937207	0	6	8	0	3	17	8	14	4	11	11	10	28
175213	57	3	1	14	0	2	6	1	10	1	27	0	8
4480555	1080	462	101	716	232	153	573	202	24	282	992	299	140
4480557	2375	449	190	768	73	124	186	0	56	0	27	35	1
175077	30	6	1	17	2	19	27	6	22	3	51	27	6
188266	382	6	6	33	5	7	16	1	2	0	24	1	2
259578	18	11	7	7	4	15	7	4	3	8	14	83	12
177512	21	52	96	53	44	14	13	13	3	6	11	1	1
3319464	0	0	0	0	0	0	0	0	0	0	0	0	0
3390534	5	11	10	17	4	69	15	19	7	12	58	30	21
277067	5	10	1	26	5	5	16	12	91	12	1	78	36
199674	15	1	1	8	1	5	16	1	3	1	2	0	5
3920500	450	104	59	405	63	22	24	4	78	42	63	65	12
265483	47	28	38	51	5	13	4	0	0	17	11	45	34
399606	126	192	42	100	19	85	54	41	158	19	31	73	10
192971	0	0	0	0	0	0	0	0	0	1	0	0	1
275218	44	18	14	45	9	3	6	10	97	5	12	21	11
228043	0	0	0	0	0	0	0	0	0	1	0	1	1
261486	22	4	6	28	1	1	2	0	26	4	2	5	4
297577	14	39	3	12	2	18	12	0	25	5	4	8	1
3150250	0	0	0	0	0	0	0	0	9	0	0	1	3
578016	0	0	0	0	0	20	15	36	34	24	27	22	53
637546	0	0	0	0	0	0	0	0	0	0	0	0	0
195691	14	3	1	6	3	3	3	2	55	34	2	14	10
4483570	4	24	29	72	4	0	2	8	1	13	4	9	0
4306262	47	18	43	57	2	11	6	43	150	1366	979	41	20
184451	0	0	1	0	27	11	21	5	216	4	0	198	35
184456	3	6	12	2	4	2	1	0	1	1	3	0	0
814952	1	0	0	0	0	0	0	0	0	0	0	0	0
264225	3	1	0	3	1	7	3	2	12	0	0	8	5
198865	34	4	43	15	24	14	11	19	41	5	5	11	31
4405128	104	129	222	322	74	20	12	137	20	28	14	65	14
3265889	13	1	0	1	0	0	0	0	546	15	435	353	27
1107652	1	4	0	11	0	0	1	0	0	0	0	0	0
195337	7	0	0	1	5	13	9	0	28	1	0	0	11
196672	8	4	24	5	15	3	7	12	0	7	10	0	1
269726	159	38	73	303	206	134	82	20	23	2	32	131	87
179457	135	134	202	309	99	18	27	40	44	9	40	19	25
637934	21	21	23	69	13	7	28	21	19	1	3	13	11
262917	7	1	0	1	0	2	3	8	208	21	1	64	482
1108599	1	1	10	4	1	3	3	8	0	52	4	5	0
339329	41	4	2	19	5	9	15	5	33	6	3	4	16
2875735	0	0	0	0	0	211	109	218	544	148	240	730	1469
4402834	2	0	2	3	0	1	0	694	21	67	0	95	16



Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
313898	43	3	3	5	1	8	8	0	5	0	7	3	1
176071	15	14	17	84	24	65	14	20	14	6	27	7	20
277497	4	3	0	2	2	4	2	49	14	5	0	8	6
349343	17	2	0	4	1	3	6	2	14	0	0	8	6
203605	172	132	240	353	260	38	19	44	118	22	16	25	59
4389125	3	4	7	5	2	654	190	174	76	40	294	141	307
170926	28	3	1	21	1	3	0	0	3	1	1	1	6
4448052	42	46	104	82	30	78	67	19	338	5	35	2	11
174698	130	8	8	12	6	22	26	5	5	5	30	7	5
332962	39	101	6	29	13	50	55	22	86	11	11	45	2
3610691	0	0	0	0	0	0	0	0	0	0	2	0	0
4390754	42	18	3	40	2	8	0	1	1	10	1	11	1
4457427	19	1	1	3	7	10	10	0	1	0	0	3	1
320169	0	0	0	0	0	0	0	1	0	1	0	0	0
265116	0	15	1	12	0	0	0	5	6	0	0	1	2
269125	16	166	34	114	77	247	154	198	569	22	30	158	270
4449518	367	634	972	982	163	78	29	0	0	0	1	0	12
561069	137	53	8	112	16	16	7	2	7	1	10	5	3
299171	9	2	1	0	2	13	2	1	3	4	4	5	5
40230	0	0	0	0	0	0	0	0	0	0	0	1	1
569818	443	113	62	332	66	24	44	8	44	3	61	19	9
319219	16	2	1	1	0	5	1	2	4	1	3	3	1
198964	147	100	192	265	180	26	27	39	113	14	14	25	51
618010	0	0	0	0	0	0	0	0	0	0	0	0	0
342075	3	3	3	2	10	5	4	2	3	0	1	1	3
135956	2	22	3	17	6	15	7	13	35	8	1	15	21
3919797	444	32	5	115	0	14	22	9	1	47	5	47	82
265301	22	13	1	20	5	1	6	4	4	8	22	15	3
578058	0	0	0	0	0	0	0	0	0	0	0	0	0
10196	0	0	0	0	0	0	0	0	0	0	0	0	0
259511	4	0	0	0	0	1	0	1	29	12	0	0	0
183619	5	6	12	8	3	30	23	41	28	5	16	44	70
261076	0	25	6	25	0	0	0	15	58	6	2	45	5
270391	31	103	116	320	21	7	6	78	21	85	38	39	11
4440624	53	17	2	30	6	0	6	1	0	0	1	3	0
4460604	6	0	0	0	0	1	0	39	3	4	68	644	3
95424	96	25	16	51	14	26	50	14	127	9	10	43	44
436341	22	9	0	4	2	6	3	3	15	1	1	8	1
295075	23	14	7	20	5	10	5	0	8	4	0	1	7
1678333	31	4	3	20	13	13	2	1	44	0	0	2	8
243185	0	0	0	6	0	0	0	0	0	0	0	0	0
175998	4	0	2	4	2	2	0	1	0	3	1	15	0
3267277	0	0	0	0	0	0	0	0	0	0	0	0	0
1931575	0	0	0	0	0	0	0	0	0	0	0	0	0
337784	21	4	1	17	3	10	2	4	6	8	3	7	10

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
1921818	71	33	21	102	14	9	5	7	12	15	0	12	16
3172949	139	79	154	369	199	106	75	19	118	20	6	22	29
3172943	12	6	11	7	12	7	8	17	21	5	12	10	10
645358	0	0	0	0	0	0	0	0	0	0	0	0	0
838685	0	0	0	0	0	0	1	0	0	0	1	1	2
828284	0	1	0	2	0	0	0	0	0	0	0	0	0
1111755	1420	2074	8456	3693	1194	2871	1660	5034	5	39332	2130	2461	10
188878	404	393	150	474	451	1498	661	258	106	65	10	175	36
4401580	26	9	13	81	17	80	22	19	17	6	32	23	44
317854	2	34	10	93	5	1	5	1	4	1	0	2	3
4256470	2	0	8	7	5	1	6	3	1	0	1	0	1
839558	9	8	25	17	2	2	0	25	22	3	9	5	2
185743	136	34	9	40	19	130	21	32	6	9	157	35	35
4378740	0	0	0	1	0	1	0	2	1	1	0	0	4
266206	14	10	0	30	5	4	18	3	5	14	32	24	3
270513	6	8	6	55	4	13	15	12	16	2	0	7	33
334697	1	0	0	0	1	3	1	2	10	0	1	4	5
4352471	0	0	0	0	0	0	0	0	0	0	0	0	0
4426367	39	89	112	163	15	10	12	11	7	10	20	0	0
209030	50	208	370	291	154	50	59	118	228	27	70	106	80
190646	71	0	6	22	2	5	4	1	9	3	0	12	8
172389	2	0	2	2	1	0	1	3	3	34	0	12	0
213896	307	80	16	220	25	8	6	2	2	0	16	2	3
161762	75	13	14	30	6	15	14	0	8	1	7	13	41
174441	211	47	27	126	11	13	1	2	4	2	24	27	8
135625	6	0	3	3	0	0	0	1	1	5	0	20	2
4365109	0	0	1	1	1	7	1	3	81	0	1	51	25
832558	82	64	184	159	37	68	62	11	375	6	29	8	19
4464113	366	742	272	594	0	1	1	252	80	168	192	456	1
1105376	1	0	1	0	2	0	0	0	0	1	1	0	1
346275	29	22	0	15	1	2	3	1	4	0	6	1	5
3505032	2	106	15	205	11	5	5	0	4	0	1	4	1
4355436	2	0	0	0	0	0	1	7	1	26	241	6	1
4480176	18	55	187	160	6	53	11	33	52	47	1	20	47
344527	10	42	44	16	30	65	25	41	5	28	112	60	70
4372003	0	0	0	0	0	0	0	37	10	2	9	3	17
172464	0	0	0	0	0	0	0	0	212	3	2	158	1
289709	0	0	1	0	0	0	0	0	0	0	0	0	0
174854	130	39	13	87	21	15	5	7	48	4	2	16	15
830014	21	6	6	45	10	8	14	9	68	22	9	51	28
189666	16	5	2	14	9	19	5	2	15	3	0	3	5
304416	33	0	5	6	1	7	7	0	8	10	3	6	14
214835	43	9	6	23	18	13	10	0	8	3	17	3	0
260346	13	8	1	14	6	4	10	1	2	7	10	12	9
195445	49	31	41	100	27	89	52	4	31	1	0	0	0

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
263420	33	15	39	9	24	14	12	42	54	6	4	18	20
187959	27	2	18	7	21	7	5	15	17	4	11	7	20
199707	9	5	10	3	15	5	19	54	20	4	14	6	19
175485	3	1	1	13	0	10	7	22	31	5	26	44	149
193064	11	18	3	14	4	9	18	16	11	2	13	9	24
174285	38	5	2	27	0	0	0	2	32	8	12	2	7
1110752	185	618	966	696	124	183	68	1746	1143	488	1014	691	166
177414	38	11	49	14	35	12	9	18	59	7	15	6	26
882782	13	5	16	7	26	7	9	45	39	7	27	8	17
180465	9	2	0	1	1	4	6	5	12	1	6	2	8
1113553	0	0	0	0	0	2	3	0	2	0	1	0	1
347490	248	65	39	222	20	10	38	7	188	12	101	47	10
322991	33	20	127	29	35	15	11	14	2	13	2	0	2
4327628	0	0	0	0	0	0	0	0	0	0	0	0	0
819999	0	0	0	0	0	0	0	0	0	0	0	0	0
4402077	460	217	39	476	50	4	32	3	6	73	1	8	1
63144	1	20	3	66	2	1	4	1	2	0	1	2	0
233691	33	2	22	40	2	4	3	143	4	4	3	36	34
1108453	6	0	65	6	460	1515	265	564	174	36	20	177	13
38278	115	164	213	388	141	78	75	167	104	53	97	169	10
181419	9	4	4	14	0	2	1	1	2	0	9	5	6
183675	111	25	36	185	9	34	10	10	241	24	3	31	36
259901	1	0	0	0	2	0	2	2	3	14	1	19	178
322839	25	85	176	151	40	56	26	22	384	64	2	8	568
194388	111	78	7	52	5	16	44	12	83	20	129	25	68
307416	0	0	0	0	0	0	0	1	0	0	0	0	0
190063	0	0	1	0	12	1	4	2	74	0	0	63	17
313274	102	8	22	21	15	37	24	6	120	15	42	13	23
1136443	1403	21802	22355	2707	12958	33388	48498	29747	16267	22473	36801	30512	40251
421893	7	4	3	2	0	11	12	6	11	5	9	8	2
3325760	12	8	2	10	1	4	0	0	2	0	0	0	0
343130	144	17	8	44	10	26	55	1	2	0	193	0	3
174260	36	24	30	142	29	23	13	3	2	1	4	25	3
4453627	7	34	1	19	3	9	26	2	13	1	0	2	40
348785	6	2	0	2	0	14	3	3	15	2	1	4	2
189789	58	4	0	7	0	1	5	0	13	0	33	2	2
3056461	15	49	92	78	19	25	13	19	14	8	15	29	24
188785	0	0	0	0	0	0	0	0	1	1	1	0	4
354736	1	0	0	2	1	4	12	1	85	13	19	11	68
263953	8	21	2	12	1	0	2	0	0	6	5	1	1
635304	0	0	0	0	0	0	0	0	0	0	0	0	0
309663	13274	2984	1369	11543	1063	766	2609	0	15	3	6234	50	32
198604	20	13	20	25	18	5	7	5	10	1	0	1	1
205160	51	14	42	36	34	31	18	24	54	9	13	8	14
264657	0	0	1	0	2	4	4	3	11	1	1	0	3

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
273928	37	7	7	13	4	1	1	0	1	1	2	1	1
197025	0	0	0	1	0	0	0	0	1	0	0	1	0
157999	2	0	1	1	3	0	4	4	337	14	6	100	19
385545	58	114	26	38	4	37	29	24	50	10	14	21	3
186777	306	36	5	61	8	15	13	6	55	1	11	10	2
30067	0	0	3	3	0	2	0	0	31	1	2	22	1
177205	9	2	17	6	8	1	4	55	27	8	45	6	17
4401375	37	17	14	100	42	41	8	13	16	1	50	33	36
176139	4	1	0	1	1	0	1	5	37	6	1	16	0
3998912	0	0	0	0	0	0	0	24	636	639	13	674	425
175114	1	1	2	1	22	75	7	94	36	7	5	52	1
176868	1	0	0	1	0	0	0	6	0	0	0	0	26
191878	0	0	0	0	0	0	0	0	0	3	1	81	106
259195	12	2	7	2	3	27	6	2	2	7	12	1	8
174791	19	14	28	23	38	34	45	117	90	30	56	25	43
2624257	20	29	22	422	11	6	3	7	20	4	2	20	42
271734	9	4	0	20	4	1	1	0	2	5	6	10	4
174420	43	57	75	119	59	20	9	15	20	48	99	29	5
1517779	48	104	204	249	70	140	67	109	43	66	97	149	196
1108378	1	5	0	2	3	5	3	0	0	0	20	2	7
319816	44	44	15	58	61	24	8	20	27	0	2	5	21
606063	0	0	0	0	0	0	0	0	0	0	0	0	0
4420272	0	0	0	0	0	0	0	3	390	13	2	125	30
266091	9	1	0	4	1	0	0	0	0	0	0	2	1
177014	434	479	635	1221	296	123	74	137	471	42	109	127	153
2978254	16	8	74	96	6	31	187	41	3	281	475	135	40
51677	24	67	19	57	127	30	1	0	102	94	62	36	457
345211	55	53	21	56	59	19	6	14	26	4	2	8	12
4476330	7	2	1	48	6	0	6	0	1	2	0	4	6
113417	40	20	16	21	16	11	0	16	30	27	12	15	29
174651	24	0	2	8	0	5	3	0	83	10	5	5	42
263366	5	34	0	36	4	8	7	2	11	0	0	0	3
178068	1	5	5	5	8	1	4	1	1	6	6	0	0
273904	17	13	11	145	8	16	21	18	21	2	1	11	63
258559	890	4	35	301	581	674	696	38	1	2	98	97	32
2315700	18	73	62	18	33	113	94	37	71	18	60	69	45
4418586	6	0	0	0	0	1	0	85	153	5	0	435	296
276629	36	11	46	40	47	26	20	12	79	7	6	14	19
4424327	3	0	0	0	0	0	0	1	6	2	1	3	1
831301	1	11	4	15	5	4	10	11	29	6	22	10	63
190026	0	0	0	0	0	0	0	0	0	0	0	0	0
4476780	1	5	3	5	1	1	0	2	0	3	2	3	2
570367	294	101	45	298	44	24	37	8	47	3	64	25	23
210950	12	17	30	51	95	65	78	17	14	4	14	2	144
4366524	10	8	8	24	3	9	8	0	17	12	0	11	6

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
272192	3	1	0	1	1	8	3	2	10	0	14	19	15
136604	1	225	30	28	0	0	0	5	0	6	102	16	0
192316	131	127	165	323	82	39	34	49	159	21	30	52	58
2072645	0	0	0	0	0	0	0	0	0	0	0	0	0
181719	261	94	113	773	274	1232	347	115	418	67	259	596	795
292892	8	11	0	9	0	4	15	9	35	2	48	20	12
340600	0	0	0	0	0	0	0	0	0	0	0	0	1
261590	14	304	59	150	26	49	57	16	44	12	5	21	0
168984	70	6	7	107	5	30	29	20	1	1	0	0	0
1703712	203	64	90	541	206	361	102	36	129	16	81	218	216
264345	0	0	0	0	0	0	0	0	0	0	0	0	0
209845	10	3	63	32	4	12	1	4	35	7	5	100	58
198209	1	187	31	104	9	38	41	18	37	7	3	14	2
171532	3	0	0	1	4	1	11	25	81	11	0	5	0
299600	7	2	52	22	1	7	0	5	23	2	9	61	38
273967	0	0	0	0	0	0	0	0	29	5	20	15	7
4449984	2	7	1	3	0	1	11	2	3	0	2	4	0
325850	0	30	38	17	0	0	0	3	12	14	10	8	0
801260	0	0	0	0	0	1	0	3	1	11	3	3	1
259631	14	0	8	30	1	1	4	0	36	0	0	6	0
278609	289	116	338	273	87	615	396	118	2050	162	237	101	272
264155	2	6	1	1	2	1	6	1	2	7	1	0	0
333576	141	26	10	114	9	9	21	1	0	0	14	1	4
194665	263	43	8	60	2	2	0	2	0	1	50	2	16
194662	21	0	0	2	0	5	0	0	14	1	1	4	0
2897332	72	12	10	120	18	6	21	23	111	5	10	21	63
178490	0	0	0	0	0	0	0	4	0	2	0	10	0
262801	6	1	0	0	5	167	3	1	883	2	1	393	4
4471130	13	42	25	66	55	226	78	0	48	8	0	18	23
4471135	1	5	0	1	3	0	1	1	8	0	6	3	3
259275	14	10	16	25	11	3	4	0	2	0	1	3	11
198194	96	9	28	153	38	81	129	10	55	69	5	60	106
575261	132	45	11	131	17	11	21	2	28	4	43	12	4
258849	68	311	445	378	188	71	83	150	273	72	76	125	87
4045882	0	0	0	0	0	0	0	0	0	0	0	0	1
177917	13	4	18	22	18	1	3	3	6	1	0	2	2
298973	72	60	2	39	7	1	7	2	10	3	18	2	10
835456	3	21	26	52	2	9	4	13	9	6	1	15	5
276663	25	19	11	53	10	20	9	8	10	67	1	6	19
3868285	285	1137	75	253	9	1042	994	261	1078	105	3	446	3
276484	0	0	1	1	0	4	0	1	1	1	0	0	0
192598	47	70	50	126	35	44	46	43	42	61	14	64	78
4343528	114	59	14	49	6	6	3	5	36	64	55	16	12
260233	1	0	3	0	10	75	24	13	41	3	52	28	5
174770	181	6	0	8	1	1	2	1	11	3	9	5	18

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
272953	27	1	1	19	1	0	2	0	3	0	5	2	2
176886	25	28	55	27	30	16	19	35	48	17	11	11	12
4466618	0	0	0	0	0	0	0	0	0	0	0	0	0
259870	0	0	0	0	0	0	0	0	63	0	0	1	0
4450025	0	0	0	0	0	0	3	19	2	0	1	2	0
661055	0	0	0	0	0	0	0	0	6	0	0	0	0
210292	187	166	108	299	84	119	196	28	51	66	109	186	291
166099	4	17	17	14	2	6	1	3	3	1	1	14	5
345582	19	2	5	4	0	14	3	1	10	7	3	3	14
261334	15	5	0	5	1	15	2	3	3	1	11	3	3
136783	12	5	3	4	0	16	7	6	13	2	5	11	12
314424	21	69	8	22	0	1	15	1	1	4	65	0	2
771140	0	1	0	0	0	0	0	50	2	2	1	6	0
177930	1	8	1	2	0	5	6	0	9	1	1	1	1
274095	0	1	14	13	0	1	1	3	18	2	0	0	1
185519	6	4	0	19	2	2	1	3	4	0	1	3	0
162639	154	79	90	345	30	17	45	67	155	134	96	29	116
578649	228	91	31	160	24	26	20	4	42	7	32	14	3
312311	64	21	6	125	6	7	9	0	28	3	16	5	48
569522	1658	533	223	1499	311	166	203	66	349	27	375	143	83
2212505	421	409	817	880	1178	518	816	1616	1315	302	872	480	681
214120	11	2	16	5	12	4	0	10	16	2	3	3	9
258411	108	4	3	14	3	9	4	2	14	4	20	5	4
4371295	74	68	8	50	5	3	5	5	10	4	22	1	18
2797565	3	9	17	16	0	6	7	16	18	20	14	26	1
1991255	48	5	1	22	3	2	1	0	9	12	11	7	5
261350	1	0	2	0	3	3	0	2	3	2	1	1	3
14035	141	35	7	103	24	24	14	15	47	3	0	43	22
264325	25	114	267	295	89	6	67	77	1	25	18	0	1
437137	105	191	176	208	209	66	62	123	437	44	29	218	9
4481359	111	32	11	109	13	12	24	0	12	2	34	23	37
112720	15	58	97	82	39	5	11	18	1	6	3	1	2
311788	218	285	436	472	474	196	127	346	442	76	77	218	304
833381	9	2	1	5	4	16	4	2	8	1	3	6	5
177952	28	21	31	86	24	26	33	23	57	2	34	90	30
4483264	12	5	1	6	1	12	9	7	33	8	5	9	8
310781	0	0	0	0	15	5	9	0	0	6	6	0	0
4477372	41	1	0	7	7	7	9	1	3	0	3	0	3
342685	3	14	7	26	0	8	4	17	3	3	0	0	5
4413888	1	1	26	94	0	0	4	7	7658	5047	13	1769	534
273091	6	16	5	106	11	2	6	9	130	7	0	17	4
324013	51	8	20	12	26	36	21	13	88	12	16	24	19
177371	31	136	248	158	94	31	27	27	1	33	52	2	3
4393892	39	12	4	47	7	3	19	0	4	2	9	14	0
4378477	4	148	28	314	34	10	12	1	8	0	2	4	2

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
4327763	2	1	0	1	1	1	2	1	5	0	4	2	0
1902400	34	29	13	33	6	18	17	30	266	2	10	28	32
181091	3	1	0	1	3	0	1	1	48	5	1	19	4
4384058	0	0	0	0	0	0	0	0	0	0	0	0	0
1112373	26	5	20	17	14	1	0	0	2	0	4	1	3
180879	451	54	30	220	24	162	136	7	115	20	61	106	71
356226	29	1	14	4	12	5	9	3	67	2	10	4	14
197706	2	0	1	0	0	2	0	0	9	2	0	4	0
264468	0	0	0	1	0	1	0	0	844	154	144	1022	83
186549	23	5	2	18	2	23	17	2	6	4	21	4	2
185550	119	123	184	265	148	66	55	106	372	35	68	63	226
177748	62	2	1	5	2	2	7	1	2	5	11	2	8
189309	0	1	6	28	0	15	15	114	24	12	11	13	4
688800	22	37	30	93	11	14	17	20	17	17	2	24	22
3013444	98	400	395	1177	506	255	97	384	6	53	208	54	227
174056	28	51	184	119	140	66	53	88	97	7	10	15	230
583266	24	16	8	13	2	12	6	5	27	3	10	4	2
180077	95	407	802	507	312	188	242	338	10	286	426	21	18
813805	0	0	0	1	0	0	0	0	0	0	0	0	0
381666	42	97	150	248	15	31	34	18	33	30	59	2	0
4449524	1	156	62	72	0	0	0	94	3	149	118	4	17
4441792	1	77	8	319	16	7	7	2	11	0	2	2	2
259006	0	0	0	0	0	0	0	0	6	6	0	1	0
190114	0	0	0	0	0	0	0	6	0	0	0	0	0
175227	4	1	0	2	13	3	1	0	0	3	0	18	3
4464787	1	0	0	0	0	0	0	585	13	35	3	362	174
4433554	11	5	8	21	0	14	4	5	319	1	9	22	5
228798	6	13	21	20	6	6	2	0	0	1	4	0	0
1109929	2	3	7	10	4	4	2	0	0	4	67	51	0
191098	91	9	8	59	12	11	10	10	7	12	8	5	41
196664	19	3	11	9	12	52	21	12	20	3	35	38	89
279026	41	40	20	76	26	37	29	7	51	34	5	5	24
179958	37	36	54	109	23	7	5	10	20	7	3	7	13
206324	46	5	27	5	51	14	10	9	47	4	0	7	6
174071	27	40	8	53	10	8	1	2	3	0	0	2	0
288128	23	3	6	14	5	8	9	0	7	4	5	10	14
4453609	3	6	11	12	1	0	0	0	1	4	0	1	0
356164	28	12	95	15	16	13	21	78	42	9	27	47	63
577170	5	1	4	5	1	6	6	23	23	5	21	41	132
185125	261	63	18	185	22	46	56	8	201	26	51	102	84
185126	1	3	2	2	40	8	30	10	348	4	1	385	65
130663	21	19	12	139	33	101	18	28	11	2	31	16	26
277200	183	40	17	105	7	10	8	8	51	14	43	29	39
4364243	32	10	9	51	3	4	2	0	5	1	0	1	0
182470	10	0	0	1	1	3	0	1	0	1	3	10	0

Table S3 C

ID	R	R.1	R.2	R.3	R.4	R.5	R.6	R.7	R.8	R.9	R.10	R.11	R.12
166718	52	314	270	222	183	33	55	0	28	2	0	6	3
176008	17	6	3	6	5	14	13	6	16	1	13	15	5
1106101	0	3	8	1	0	1	2	0	0	0	1	0	4
584137	37	17	19	34	27	26	15	0	35	7	43	12	5
268384	4	112	11	221	18	5	4	2	4	0	1	6	2
332608	166	32	206	183	29	140	67	7	66	66	110	41	156
303251	4	4	57	21	5	31	13	56	0	394	22	29	0
214919	1	8	22	14	78	71	155	0	131	58	31	6	1
267388	46	37	23	28	62	265	50	12	117	13	204	4	368
187181	1	0	0	0	0	0	0	0	0	0	0	0	0
228556	0	0	0	0	0	0	0	0	0	0	0	0	0
129990	759	1670	3076	2188	834	624	522	172	3	512	20	2	1
271572	34	2	2	11	1	25	17	1	0	0	9	0	0
3197419	64	6	0	35	2	2	10	0	14	1	14	3	14
187233	3	61	7	132	0	6	10	1	4	1	1	14	2
420168	0	0	0	0	1	18	7	5	40	3	3	4	12
189346	56	0	1	14	1	1	0	1	16	3	2	2	2
4472195	41	30	40	82	22	27	24	16	66	16	30	73	22
199137	26	1	1	10	8	15	4	7	0	1	14	4	6
264294	5	0	0	3	0	1	0	0	0	0	1	5	0
268844	17	8	3	2	2	14	22	31	61	13	9	11	10
179427	4	7	32	8	11	3	2	20	6	7	13	0	2
179426	62	13	16	24	17	9	4	0	3	3	10	5	0
331411	237	43	32	153	24	12	48	3	3	0	118	3	3
230268	41	1	4	11	2	8	4	11	11	3	11	27	0
271439	134	28	9	68	10	9	22	1	26	0	3	7	10
310760	20	9	2	35	1	0	3	1	16	0	4	0	4
170335	57	235	152	263	220	64	39	7	13	3	4	64	16
189476	25	36	70	122	17	9	11	29	18	10	17	394	482



Table S3 D. WT (W) mice

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
181348	1	18	59	83	0	72	52
3957916	14	0	0	1	0	68	11
244484	37	0	2	3	0	12	4
1111328	4	0	3	0	0	0	0
197452	283	7	88	27	0	0	0
269815	2	0	0	2	0	1	2
363383	0	0	0	0	0	0	0
175080	0	0	1	4	7	3	39
179853	15	15	0	1	0	2	0
183089	0	0	0	0	0	0	0
263171	0	0	0	0	0	0	0
192222	2486	2433	294	242	201	104	128
276509	6	0	0	4	7	3	25
423455	110	0	87	135	5	53	114
267502	5	0	30	59	0	31	5
172163	5	2	0	46	108	37	74
828435	0	0	0	0	0	0	0
289306	6	2	1	6	0	1	3
290253	7	6	3	2	0	0	3
216495	3	3	6	4	5	8	24
4329450	0	1	0	1	1	0	1
271418	17	23	15	32	15	24	16
206817	0	0	2	2	2	1	1
197891	0	0	0	1	1	0	7
205134	22	20	11	15	36	16	27
4352747	14	117	6	8	79	10	2
182043	5	6	0	2	0	14	2
274297	197	141	88	116	0	62	52
197782	5	3	3	2	0	4	1
1105328	4	0	12	30	0	13	3
274438	5	5	3	5	0	3	8
191948	40	196	2017	907	1	1284	301
429917	1	6	65	66	1	26	320
22659	0	0	145	37	60	113	70
187272	0	0	6	24	0	1	0
277388	4	2	0	1	0	7	0
318079	0	0	0	0	0	0	0
148056	0	0	0	0	0	0	0
270385	6	6	5	16	0	6	17
270382	0	0	0	0	0	0	1
301233	2	1	0	3	1	0	0
10518	0	0	0	0	0	0	0
827195	1	1	0	0	121	0	0
10512	0	0	3	2	7	1	1

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
338640	10	1	2	5	1	3	2
752584	0	0	0	0	0	0	0
198998	5	0	0	1	0	0	0
4357147	26	6	0	5	6	2	1
196122	4	17	220	90	0	100	19
839200	0	0	36	12	0	21	0
4483037	23	32	18	23	0	22	22
376862	0	0	78	3	0	8	17
148671	0	0	1	1	0	3	2
194504	2	0	0	0	0	0	0
4442899	1	0	0	4	0	0	5
278712	1	0	0	6	3	3	7
4469233	4	0	19	26	0	5	7
184484	266	62	1	3	0	93	36
655793	21	0	24	22	0	40	19
405780	24	7	27	18	0	86	26
174824	10	7	0	0	0	0	0
181193	0	1	0	1	0	4	1
3974550	0	0	42	8	13	24	11
173916	0	0	0	0	0	90	15
197623	379	1221	883	792	523	491	284
628218	10	0	2	2	0	3	4
175706	216	73	127	124	0	32	84
183106	6	10	3	4	105	9	22
267958	0	0	0	0	0	0	0
189288	58	40	10	33	0	12	8
177621	498	3	38	170	2	1	0
829240	0	0	0	0	0	0	0
2645488	9	2	314	158	0	1	1
186886	135	52	15	49	1	0	0
210262	0	0	2	2	0	3	2
271822	121	2	13	23	0	45	12
196746	32	23	11	27	0	20	6
179343	6	7	5	8	57	9	20
4435934	1	5	19	21	0	17	6
746679	26	39	0	0	0	1	0
4481506	1581	3944	462	911	775	0	1
4357315	2	2	1	5	0	0	0
452014	0	0	0	0	0	0	0
68844	51	1	7	40	0	0	0
272593	44	8	21	59	187	246	8
182995	228	99	354	1011	437	492	233
4383135	1	1	0	0	0	0	0
328143	2	0	1	0	0	1	19
185614	8	1	15	27	39	20	85

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
4378081	9	23	3	6	42	1	2
162539	901	8	0	0	0	311	296
4459184	0	0	0	0	0	0	0
586453	3	0	6	23	384	31	6
827487	5	3	0	0	0	0	0
184966	13	0	0	0	0	0	0
209028	0	1	0	1	2	0	0
197600	16	0	23	10	0	7	7
4446120	39	261	29	108	0	1	1
356187	0	0	0	0	0	0	1
1108078	0	0	22	123	0	0	0
1105589	2	0	6	8	16	2	38
4342104	35	9	4	8	7	1	2
180476	4	3	45	52	0	16	8
4335302	18	1	0	0	0	2	30
158302	0	105	0	5	52	4	2
445144	7	0	31	59	7	6	17
184753	2	0	0	1	5	0	0
192712	190	141	214	305	710	299	360
4414242	5	0	6	10	0	22	6
255098	0	0	5	3	1	4	1
173892	28	19	7	12	0	6	0
4329776	2	0	5	9	4	3	3
4483585	0	0	0	1	0	0	0
114111	124	89	38	37	120	23	54
214715	4	6	11	4	6	2	3
262159	44	2	1	17	0	60	17
277364	99	991	99	226	796	94	209
195433	0	1	0	0	5	0	1
4449236	69	74	28	50	748	52	88
269401	17	7	3	3	0	0	2
261177	17	0	212	369	1089	122	265
261178	0	0	0	0	0	0	0
190673	98	170	94	127	146	83	41
176836	39	0	16	15	0	0	2
188116	26	0	8	45	0	53	14
234121	2	6045	0	0	0	0	0
144207	0	0	4	0	2	1	0
188786	9	1	1	0	4	0	2
196856	6	4	3	9	5	55	9
214116	39	125	9	3	30	8	8
265047	0	0	1	0	0	0	0
415491	16	13	7	14	1	4	1
4390365	0	0	0	0	0	0	0
174667	715	489	56	175	1	1967	545

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
2901239	0	0	0	0	2	0	0
273687	5	0	2	5	0	0	4
319165	1	1	0	3	7	7	2
269426	4	4	0	1	0	5	0
270303	42	17	20	14	1	20	29
329271	39	0	0	0	0	17	31
198024	5	0	1	1	0	1	2
896545	2	25	0	0	0	0	0
263705	128	0	0	0	0	38	28
174418	85	1	1	0	2	31	48
174417	0	0	0	0	0	0	0
184329	25	6	25	43	32	29	116
192342	1	0	0	0	0	0	0
4453773	0	1	0	1	6	0	0
372473	0	1	0	0	0	0	0
199698	20	32	12	21	50	10	24
191067	302	2	83	266	3888	266	157
453896	16	9	11	16	5	3	11
179548	25	29	10	15	7	12	8
179547	317	214	15	16	2	24	15
113978	0	0	0	0	0	0	0
3449666	0	0	25	15	79	4	2
4468234	0	0	10	4	42	1	1
4466275	10	0	9	11	0	17	6
186742	152	82	3	8	17	19	11
308332	63	47	0	0	0	0	0
318819	3	0	0	5	0	0	0
4379449	0	0	0	0	0	0	0
105109	0	0	1	2	0	1	2
261132	8	6	8	8	0	11	12
808794	13	1	17	94	0	2	0
407393	4	11	3	3	2	0	5
267406	7	0	0	0	0	0	0
672655	1	19	9	16	47	7	12
260989	7	3	4	3	0	6	1
2877100	10	11	36	49	1	38	21
305787	2	1	4	8	2	1	0
302641	0	1	3	7	1	3	9
1992	5	8	2	1	2	0	0
353073	1	0	0	3	7	3	17
134762	1845	25	352	464	888	1107	1495
175646	167	248	30	52	9	40	18
263518	61	116	13	22	30	9	2
2137001	11	12	7	3	32	0	0
3231096	3	3	18	37	15	8	16

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
176444	285	985	459	461	725	412	503
261114	0	0	0	0	0	12	4
191216	0	0	9	11	0	6	1
191218	5	2	0	0	5	0	0
167509	134	1	0	0	0	60	129
175416	0	0	0	0	0	0	0
183829	4	16	47	219	0	1	0
4462541	0	0	0	0	0	0	0
2154095	21	0	1	12	145	8	2
4416434	40	6	27	76	3	51	40
440840	5	0	6	14	3	1	0
40798	2	2	3	1	0	0	0
229452	81	2	9	39	0	34	54
229455	16	25	7	9	0	7	5
178480	88	0	35	48	0	52	64
4454025	0	8	0	0	207	0	0
4470092	1	0	0	0	0	0	1
259846	16	0	34	5	0	1	97
177068	123	35	13	42	98	33	8
97263	0	0	79	46	0	126	59
197099	8	0	1	7	0	2	5
265976	0	0	1	1	0	3	1
324999	1	0	1	0	2	1	1
262677	0	0	1	3	0	19	19
647320	35	1	6	40	1	12	6
174573	61	63	41	75	40	78	65
174571	2	4	44	18	1	28	20
1571092	0	0	78	12	0	0	0
177271	270	66	7	12	35	1	0
4207913	1	1	0	0	2	1	1
1112121	7	1	1	6	0	4	17
4334624	285	140	60	89	0	22	8
390896	9	27	8	8	30	13	17
129394	1	0	0	0	0	0	1
2897325	135	64	55	46	281	62	78
786708	0	0	0	0	0	0	0
180235	19	16	21	19	0	35	28
185036	11	15	9	11	8	2	3
130335	0	0	0	0	0	10	11
259249	1	956	0	0	0	0	0
98048	9	87	15	64	0	1	1
261892	7	0	97	36	0	162	60
1594231	0	1	0	0	0	5	7
4374042	317	2	0	0	0	43	352
204111	1	1	2	6	4	5	30

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
274380	5	0	0	4	1	1	0
176957	4	1	0	4	0	1	1
198238	77	0	4	2	6	0	0
1110253	10	1	49	57	0	12	67
171079	11	29	0	0	0	8	0
174004	102	118	206	174	236	101	149
182712	11	0	13	9	0	12	6
4417539	84	380	78	173	1	0	0
1107303	17	3	1	3	9	5	5
310407	0	2	0	2	0	127	164
201374	0	0	7	1	7	5	4
261409	19	0	13	1	0	0	0
320972	0	0	0	0	0	0	1
196974	3	0	1	5	0	1	0
345362	0	0	0	0	0	0	0
134065	392	18	25	107	1	797	23
191616	14	2	10	1	0	0	0
460953	12	5	26	35	0	4	0
174768	0	0	0	0	0	0	0
312322	91	9	1	4	2	130	247
724472	0	0	0	0	0	0	2
207749	67	48	251	195	160	40	48
189730	164	484	204	295	349	191	118
187841	2	2	0	2	6	0	0
186073	38	60	33	54	0	56	27
1087825	2	0	95	219	0	124	17
47477	0	0	2	0	0	0	1
4296701	8	8	5	4	1	2	1
169428	4	1	1	5	4	3	0
306469	26	1	0	0	1	1	1
833390	5	0	0	4	0	0	0
315147	0	0	269	424	235	144	42
342962	74	75	77	88	1	74	38
929476	0	0	0	0	0	0	0
635059	2	0	0	1	0	0	0
228310	689	6	0	0	0	364	221
172705	0	0	0	0	0	0	1
185177	0	0	0	0	0	0	0
413996	754	524	668	1052	552	312	585
1106683	1	0	13	10	0	20	6
4314257	125	79	19	36	2	22	22
271013	0	0	0	0	0	0	0
264101	14	0	0	0	0	0	0
4402042	0	0	45	68	0	0	0
72820	2	2	22	99	29	36	49

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
194944	14	1	0	4	0	0	0
166535	142	470	7	2	3	5	52
247557	16	1	2	8	0	10	5
1871	3	0	0	0	0	5	24
350666	26	1	16	34	54	22	9
190242	7	0	12	22	0	0	0
100344	70	40	0	0	0	1	0
186338	28	1	76	43	38	38	33
542096	218	15	46	199	1	2	2
619224	16	0	16	66	50	18	1
179695	0	0	0	3	0	0	0
263664	616	917	291	352	167	411	364
265992	25	0	10	5	0	0	0
184209	9	19	4	1	28	0	0
261992	164	21	78	48	4131	522	156
299858	6	1	2	0	4	3	0
259699	333	363	84	77	0	66	49
193723	4	4	10	17	50	22	13
204144	5	8	2	1	2	0	1
199403	7	1	4	14	8	13	0
1106468	3	8	16	19	22	18	15
176760	1	0	6	4	16	1	32
827592	2	0	1	3	0	2	0
416043	55	74	17	25	17	29	32
258641	0	0	0	0	0	0	0
36647	0	0	0	0	1	0	1
258423	0	0	0	0	0	2	0
258421	2	70	1	4	0	1194	375
186555	134	163	36	61	1	73	50
306699	0	0	0	0	0	0	0
335267	1	1	2	4	20	3	6
771177	366	124	2	10	0	86	125
204171	2	0	5	10	25	2	7
299267	0	0	0	0	0	0	0
264802	0	0	0	1	0	1	1
4296218	16	0	2	4	0	5	9
162005	93	35	17	31	0	27	58
176242	0	0	0	0	0	0	0
310751	10	0	0	0	0	0	0
813217	0	0	0	0	0	0	0
165430	10	0	18	127	0	101	34
522371	8	10	0	4	28	3	5
593043	3	4	5	8	11	11	8
304047	1012	2679	1455	934	2465	264	340
2084364	3	2	0	0	1	0	0

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
313724	2	0	32	14	0	26	9
2937207	68	109	0	0	0	0	1
175213	25	3	1	12	2	15	13
4480555	771	922	196	450	2	302	287
4480557	107	160	0	197	0	113	17
175077	11	10	5	13	0	1	1
188266	16	0	1	18	0	0	0
259578	7	0	0	5	1	4	6
177512	60	26	47	49	67	46	19
3319464	53	128	0	0	0	0	0
3390534	3	3	1	2	6	1	2
277067	58	1	12	61	0	137	18
199674	3	0	1	0	0	0	2
3920500	307	21	1	24	0	3	2
265483	239	0	16	67	0	42	96
399606	40	27	16	16	3	7	2
192971	2	9	171	73	0	84	19
275218	64	0	7	16	1	14	15
228043	0	54	39	38	0	4	1
261486	1	0	0	2	0	2	2
297577	3	2	16	16	3	5	1
3150250	27	0	17	42	0	80	17
578016	1	0	3	3	4	1	0
637546	0	0	0	0	0	0	0
195691	6	0	4	5	11	3	2
4483570	8	15	9	13	83	4	13
4306262	4381	8693	943	2038	7193	2477	3060
184451	13	7	0	0	0	1	0
184456	6	8	10	29	10	16	4
814952	0	0	0	0	0	0	0
264225	0	2	4	25	1	11	9
198865	4	1	1	6	9	7	19
4405128	262	2	0	0	0	43	49
3265889	251	756	2182	528	1	100	29
1107652	12	31	13	14	100	25	40
195337	6	0	0	0	0	0	1
196672	12	1	22	40	38	35	120
269726	134	1	39	48	17	85	34
179457	167	58	170	225	487	197	5
637934	122	0	27	34	0	50	92
262917	1	0	0	0	0	0	0
1108599	4	10	0	0	0	0	0
339329	12	1	4	6	3	0	0
2875735	241	443	135	41	712	25	32
4402834	0	1	0	0	0	0	0



Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
313898	4	0	0	8	0	2	0
176071	1	8	4	1	4	0	0
277497	0	0	0	0	0	0	1
349343	0	0	0	0	0	0	0
203605	22	50	18	15	131	22	40
4389125	198	298	37	43	114	7	11
170926	0	0	0	0	0	0	1
4448052	5	0	0	7	0	4	0
174698	10	1	3	10	0	0	2
332962	2	4	29	21	7	7	3
3610691	0	1	0	0	0	0	0
4390754	0	0	0	0	0	0	0
4457427	0	0	0	0	1	0	0
320169	33	13	51	49	14	26	8
265116	0	0	0	0	0	4	0
269125	140	34	185	639	679	334	15
4449518	387	631	248	235	4	922	219
561069	9	0	6	12	0	19	6
299171	0	0	0	0	5	0	0
40230	0	0	34	75	437	29	37
569818	30	1	5	13	5	1	0
319219	7	1	1	1	0	1	2
198964	40	62	31	45	137	46	60
618010	0	0	0	0	0	0	0
342075	1	0	0	1	1	0	0
135956	3	1	0	2	1	0	1
3919797	25	0	3	13	1	7	5
265301	1	13	1	0	2	2	2
578058	0	0	0	0	0	0	0
10196	0	0	0	0	0	0	0
259511	0	1	0	2	0	37	51
183619	3	17	3	1	13	1	1
261076	0	0	0	0	0	0	0
270391	532	916	50	101	683	64	127
4440624	51	0	1	51	0	45	10
4460604	0	0	0	1	0	0	0
95424	24	14	21	33	0	12	3
436341	3	0	0	4	2	3	0
295075	1	0	0	2	13	1	0
1678333	1	0	0	0	0	4	1
243185	0	0	0	0	0	0	0
175998	0	1	0	5	37	1	1
3267277	0	0	0	0	0	0	0
1931575	2	0	19	5	0	3	3
337784	19	0	4	14	0	16	4

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
1921818	1	4	0	0	0	1	0
3172949	396	976	115	163	2498	436	710
3172943	1	0	3	6	11	5	15
645358	1	4	3	2	6	2	0
838685	5	11	2	6	72	12	7
828284	4	0	0	0	0	0	0
1111755	2170	2023	0	0	0	1	0
188878	68	0	120	53	0	15	9
4401580	9	7	1	1	2	1	0
317854	0	0	1	0	0	2	0
4256470	17	7	11	5	18	23	11
839558	2	0	1	2	4	3	5
185743	6	0	4	2	0	0	1
4378740	4076	5141	829	906	2944	423	580
266206	9	7	1	1	1	10	0
270513	6	0	3	1	0	0	0
334697	2	0	1	1	46	6	4
4352471	0	0	0	0	0	0	0
4426367	13	7	2	2	5	1	1
209030	61	2	182	225	201	103	112
190646	23	0	0	6	0	3	7
172389	3	10	0	0	0	42	28
213896	171	1	29	74	0	125	52
161762	2	0	1	0	0	2	0
174441	5	25	10	41	0	2	3
135625	5	3	4	21	239	39	10
4365109	0	0	0	3	6	0	2
832558	43	0	4	15	0	18	9
4464113	1081	28	56	26	0	45	8
1105376	442	260	244	358	3	308	226
346275	0	0	0	0	8	3	0
3505032	0	0	31	8	18	30	11
4355436	692	257	0	1	0	0	0
4480176	0	0	19	17	0	35	13
344527	2	11	4	6	0	5	3
4372003	21	306	28	66	916	62	17
172464	83	29	2	11	0	1	0
289709	0	0	0	0	0	0	0
174854	15	29	59	33	11	22	30
830014	31	1	4	24	0	43	22
189666	3	0	2	8	0	3	3
304416	0	1	0	0	0	1	3
214835	229	217	22	71	0	76	36
260346	31	2	5	26	0	127	14
195445	0	0	0	0	0	0	0

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
263420	1	0	1	6	11	3	20
187959	3	0	2	1	2	2	5
199707	2	3	7	7	2	1	30
175485	1	0	1	1	3	0	2
193064	101	4	20	52	0	91	119
174285	54	2	54	21	0	29	12
1110752	184	17	162	235	702	82	178
177414	1	2	5	4	10	3	30
882782	2	3	1	1	4	1	12
180465	1	0	1	0	1	0	0
1113553	0	0	58	16	18	30	24
347490	98	7	27	151	4	4	5
322991	0	0	15	17	10	9	81
4327628	1	0	0	0	0	1	0
819999	0	0	0	0	0	0	0
4402077	1	0	1	0	0	0	0
63144	0	0	18	14	9	13	8
233691	1	0	0	1	0	0	0
1108453	5	1	1	10	0	0	1
38278	15	4	10	12	0	15	2
181419	0	0	14	23	0	21	5
183675	85	117	28	59	1	73	59
259901	0	0	0	0	0	0	0
322839	16	0	0	0	671	1	0
194388	10	4	4	5	14	1	2
307416	0	22	275	433	2243	101	52
190063	0	0	0	0	0	0	0
313274	2	0	1	4	0	2	0
1136443	3542	17	0	0	0	402	3413
421893	8	5	1	5	1	0	0
3325760	0	0	1	0	0	0	0
343130	65	0	27	217	0	0	0
174260	48	0	165	204	1	62	24
4453627	2	2	0	1	0	1	0
348785	0	0	0	0	0	0	1
189789	5	0	0	0	4	7	2
3056461	5	7	28	28	325	26	22
188785	26	1	0	0	0	0	0
354736	522	3	109	563	1	117	196
263953	5	0	0	0	0	0	0
635304	1	0	0	0	0	0	0
309663	20666	926	3639	23313	17	10	0
198604	6	13	2	2	7	5	2
205160	4	5	8	10	7	10	27
264657	146	277	80	92	279	50	240

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
273928	9	10	0	2	0	6	0
197025	0	3	44	27	0	22	6
157999	1	0	6	0	0	0	8
385545	31	18	11	14	2	2	0
186777	196	119	129	332	0	110	13
30067	1	0	0	1	2	3	2
177205	1	1	3	0	5	0	2
4401375	45	34	0	2	134	3	2
176139	0	0	3	1	0	6	8
3998912	0	0	0	0	0	0	0
175114	0	0	0	1	0	0	0
176868	470	427	62	105	0	107	63
191878	3	5	0	0	1	110	31
259195	0	0	0	2	0	0	0
174791	51	214	221	310	223	111	273
2624257	9	4	9	6	58	2	1
271734	0	0	14	37	0	67	16
174420	0	0	2	3	0	0	0
1517779	75	74	68	27	693	68	32
1108378	29	16	9	22	0	1	0
319816	3	0	13	24	23	5	9
606063	0	0	0	0	0	0	0
4420272	1	0	2	0	0	0	3
266091	1	6	2	1	0	1	0
177014	774	605	351	498	1203	602	744
2978254	100	31	11	19	0	24	3
51677	535	0	14	115	255	261	184
345211	6	1	3	10	17	4	5
4476330	33	7	262	199	0	53	10
113417	6	13	0	1	3	0	0
174651	142	108	62	110	0	28	10
263366	8	18	0	0	0	5	7
178068	12	9	37	66	61	42	22
273904	26	1	11	0	0	0	0
258559	25	3	8	3	0	0	0
2315700	28	35	34	39	0	21	38
4418586	3	384	0	1	1	90	20
276629	4	0	2	3	3	2	23
4424327	7	69	542	291	3	443	286
831301	0	3	4	5	0	21	0
190026	209	2	101	152	2	157	28
4476780	0	10	3	1	3	0	1
570367	40	1	7	31	10	3	1
210950	195	346	10	15	8	2	10
4366524	0	0	0	1	0	0	0

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
272192	105	87	8	22	0	7	11
136604	58	1	0	0	1	1	0
192316	130	99	81	118	293	98	140
2072645	0	1	0	0	0	0	0
181719	259	428	197	198	1	106	84
292892	3	1	0	0	0	0	0
340600	77	0	0	0	0	3	1
261590	3	0	0	0	0	0	5
168984	2	17	102	226	1	0	0
1703712	22	22	20	20	5	16	7
264345	8	0	32	8	0	9	5
209845	0	0	0	0	0	0	0
198209	0	1	0	0	0	0	1
171532	61	4	0	0	0	0	0
299600	0	0	0	1	0	0	0
273967	108	124	16	25	0	12	3
4449984	4	0	22	40	0	9	8
325850	20	8	0	17	31	1	0
801260	177	103	1	9	28	22	6
259631	1	3	138	29	2	0	2
278609	28	32	22	31	14	25	22
264155	22	0	0	5	0	14	14
333576	4	0	5	25	0	0	0
194665	28	1	0	0	0	0	0
194662	1	0	0	0	0	0	1
2897332	35	17	33	60	135	68	18
178490	86	6	57	22	175	25	8
262801	0	0	1	3	0	558	171
4471130	4	0	1	3	1	2	23
4471135	1	0	0	2	0	0	0
259275	3	1	1	4	0	2	5
198194	59	188	14	22	0	63	26
575261	17	1	5	14	2	0	0
258849	58	3	145	250	208	79	97
4045882	0	8	0	1	317	2	1
177917	3	8	3	5	60	4	15
298973	5	0	1	0	2	0	0
835456	0	0	0	0	0	0	0
276663	0	0	1	3	6	0	0
3868285	10	343	4	0	0	215	128
276484	0	0	0	0	1	0	0
192598	0	0	18	31	1	59	22
4343528	35	71	18	32	1	13	12
260233	3	1	2	5	0	0	0
174770	5	0	0	2	0	0	1

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
272953	29	1	7	10	0	16	11
176886	10	23	16	13	14	14	18
4466618	0	0	0	0	0	0	0
259870	14	1	0	0	352	14	7
4450025	0	1	0	0	0	2	5
661055	4	234	1	1	25	6	2
210292	532	357	141	175	0	186	309
166099	0	0	0	0	0	0	2
345582	0	0	0	5	0	0	2
261334	0	0	0	1	0	0	0
136783	1	0	5	0	0	1	1
314424	0	0	0	0	0	1	2
771140	1	2	0	0	0	1	2
177930	5	0	4	12	4	2	0
274095	2	1	1	2	0	6	15
185519	2	0	12	22	0	18	8
162639	185	264	82	81	74	66	56
578649	10	6	5	17	8	1	0
312311	24	9	8	12	79	57	18
569522	288	20	43	127	34	6	8
2212505	1841	8368	1064	1578	1203	756	1601
214120	4	0	2	3	3	0	9
258411	14	1	2	13	1	9	11
4371295	46	11	17	30	119	25	2
2797565	3	0	0	0	0	7	1
1991255	27	4	2	4	0	4	3
261350	847	85	2189	2145	977	908	1121
14035	7	1	0	0	0	0	0
264325	109	98	27	37	44	51	24
437137	214	436	19	35	370	114	131
4481359	0	0	0	0	0	17	8
112720	14	3	6	12	14	19	11
311788	59	45	79	121	72	32	65
833381	0	0	1	0	0	0	1
177952	239	37	19	51	67	65	31
4483264	0	2	5	10	0	12	7
310781	187	1	0	0	0	10	3
4477372	0	1	0	0	0	0	1
342685	131	1	0	0	0	22	21
4413888	0	0	1	0	0	0	3570
273091	0	0	41	36	0	0	0
324013	3	0	1	1	5	2	15
177371	183	75	180	255	294	198	156
4393892	10	0	3	1	0	44	4
4378477	0	0	33	13	14	14	13

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
4327763	0	0	5	2	8	0	6
1902400	53	33	83	150	181	98	46
181091	0	0	0	1	0	0	0
4384058	0	0	0	0	0	0	0
1112373	1	2	1	1	0	0	0
180879	81	28	33	128	1	62	62
356226	1	1	1	0	1	0	11
197706	2	81	5	13	0	28	16
264468	188	17	92	130	0	0	144
186549	4	0	1	2	0	4	2
185550	570	988	375	623	3	546	663
177748	1	0	1	3	0	0	0
189309	0	4	42	79	1	38	20
688800	0	0	0	0	0	2	1
3013444	159	167	1	10	14	19	16
174056	44	72	39	67	48	81	36
583266	0	1	1	0	1	3	0
180077	5632	3042	5610	7410	6919	7055	3675
813805	0	0	0	0	0	0	0
381666	108	157	14	34	84	30	27
4449524	3	3	0	0	0	0	0
4441792	21	84	11	4	12	10	36
259006	0	0	878	1242	5	0	1
190114	24	40	157	484	1	0	0
175227	0	0	9	4	0	11	11
4464787	3	701	0	0	0	0	0
4433554	6	0	0	0	0	0	0
228798	164	153	0	0	0	27	48
1109929	504	414	28	114	1	160	66
191098	20	1	14	26	0	114	75
196664	0	0	3	2	1	0	1
279026	3	3	18	30	86	22	2
179958	12	17	8	15	15	9	5
206324	1	1	1	1	1	3	32
174071	0	0	5	8	0	0	0
288128	7	3	2	2	0	2	5
4453609	23	60	5	7	48	25	4
356164	0	2	4	0	13	1	3
577170	0	1	0	0	3	0	0
185125	710	8	125	298	0	1075	796
185126	4	0	0	0	0	0	0
130663	8	8	0	2	4	1	0
277200	431	396	163	238	1	204	52
4364243	1	1	0	0	0	77	20
182470	12	9	6	10	0	9	3

Table S3 D

ID	W	W.1	W.2	W.3	W.4	W.5	W.6
166718	375	1	0	0	0	189	94
176008	0	0	0	1	0	0	0
1106101	777	1379	172	343	174	145	130
584137	1071	15	251	687	5	380	56
268384	0	0	2	1	0	2	1
332608	10	37	14	27	1	0	1
303251	4	4	0	0	0	0	0
214919	33	82	3	1	1	0	75
267388	267	6	0	1	0	11	13
187181	29	114	90	156	0	0	0
228556	0	0	0	0	0	0	0
129990	5	0	1342	1516	1213	1513	2271
271572	0	0	1	0	0	0	1
3197419	13	0	7	17	68	8	2
187233	3	122	5	12	91	65	35
420168	0	0	0	0	0	0	0
189346	5	0	0	1	0	0	1
4472195	21	9	17	8	30	10	9
199137	8	6	37	13	0	16	12
264294	0	60	0	0	0	5	7
268844	0	0	2	2	1	1	2
179427	14	1	13	30	26	12	55
179426	16	11	2	1	0	5	5
331411	65	1	38	190	1	0	0
230268	2	0	0	0	0	4	0
271439	0	1	0	0	1	0	0
310760	5	0	2	2	10	7	2
170335	350	3	0	0	0	66	13
189476	46	1	7	29	16	35	27



Table S3 E. SPs (P) in *HBUS* mice

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
181348	0	8	30	9	4	1	0	0	0	0	16	23	9	9	8	4	26	0	0	108
3957916	0	65	276	425	72	70	129	0	0	0	16	24	55	40	6	0	0	0	0	20
244484	0	13	55	57	26	10	2	0	0	0	7	12	11	12	9	10	10	0	0	5
1111328	0	6	15	10	0	0	0	0	0	0	8	2	0	0	2	0	1	0	0	0
197452	0	3	5	0	0	0	0	0	52	9	1	0	0	1	4	499	98	0	2	1
269815	0	2	5	4	6	3	0	4	0	0	0	2	1	2	0	1	2	0	0	0
363383	55	1	6	8	1	0	4	13	0	0	0	0	6	0	0	0	0	0	0	0
175080	0	19	14	21	0	15	0	0	0	0	25	2	0	0	0	6	1	7	9	3
179853	2	33	33	48	1	0	0	0	12	1	0	0	2	2	6	6	4	0	0	0
183089	6	22	133	55	15	2	16	15	2	14	16	7	9	1	34	0	0	34	33	4
263171	0	19	9	4	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
192222	0	1	0	0	0	0	0	0	0	0	1	0	0	0	96	0	0	2	0	0
276509	0	5	8	5	6	33	1	69	3	25	22	1	14	15	11	11	5	6	7	3
423455	3	18	24	23	35	68	5	13	1	3	101	34	86	36	21	95	16	4	0	43
267502	0	4	3	3	8	0	0	36	80	1	0	3	0	2	3	0	0	0	0	62
172163	2	0	77	8	36	1	0	0	0	0	32	204	22	116	38	147	70	575	456	34
828435	0	0	15	5	11	2	0	0	0	0	0	1	3	0	0	8	147	0	0	0
289306	2	15	44	52	17	1	0	4	7	0	1	3	1	2	1	0	2	0	0	1
290253	2	24	257	108	1480	9	88	12	16	31	2	15	5	5	8	2	4	2	1	3
216495	0	14	4	5	15	4	0	23	1	0	7	0	3	13	14	9	0	1	2	6
4329450	0	11	1	7	5	0	1	0	0	0	1	1	0	0	0	0	2	0	0	0
271418	3	5	23	15	1	4	0	0	0	0	32	6	6	24	20	27	2	25	10	18
206817	2	2	0	1	3	8	0	0	0	0	6	0	2	10	8	1	0	2	1	5
197891	0	2	1	10	14	7	1	5	4	3	2	0	5	1	4	3	0	3	2	1
205134	199	242	246	375	230	49	29	1	1	2	79	21	24	47	91	43	13	49	40	32
4352747	7	9	7	20	10	44	5	0	0	0	13	6	21	15	83	75	9	23	53	2
182043	0	68	58	13	0	0	0	291	32	304	28	136	6	28	479	9	1	0	0	431
274297	5	126	442	401	110	41	9	43	106	9	34	107	33	36	78	99	104	0	0	62
197782	0	8	16	25	10	1	0	4	5	0	2	5	1	3	3	1	4	0	0	3
1105328	0	1	1	18	0	0	0	0	0	0	3	0	1	4	1	27	28	0	0	30
274438	3	30	79	94	27	1	0	3	14	0	1	7	4	4	5	5	5	0	0	5
191948	0	174	1924	978	14	1	3	160	780	597	1267	3207	1083	979	1355	1268	112	1	0	1885
429917	0	0	2	2	1	0	1	0	0	2	448	92	8	336	687	79	64	4	4	174
22659	3452	122	596	519	58	0	0	0	0	0	0	0	0	0	0	90	230	77	154	161
187272	7	14	8	121	58	1	7	2	4	16	0	0	0	1	1	11	0	0	0	1
277388	1	20	180	80	783	20	114	22	20	27	8	27	9	1	6	1	4	0	0	4
318079	21	92	327	196	30	1	7	10	1	9	2	4	3	0	6	0	0	7	14	1
148056	1	1	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0
270385	0	0	0	2	1	3	0	3	7	0	3	10	1	3	7	18	20	0	0	18
270382	9	22	16	10	33	1	1	0	0	1	2	1	0	0	0	8	1	2	9	3
301233	0	2	1	4	10	0	0	0	2	0	1	3	0	0	2	3	6	0	1	0
10518	10	18	36	26	40	6	31	1	15	17	0	0	0	0	1	1	4	6	0	0
827195	6	399	422	335	721	112	9	119	165	3	55	47	26	60	22	197	0	186	49	22
10512	0	2	1	20	60	361	1522	30	597	840	4	25	49	19	83	124	86	119	890	74
338640	0	10	17	44	50	14	2	2	3	2	0	7	12	16	8	3	9	4	3	2
752584	3	17	3	26	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
198998	0	2	17	10	181	0	3	0	0	0	1	1	0	2	3	1	1	0	0	2
4357147	107	132	370	344	550	43	35	7	18	54	7	3	11	33	62	171	102	1	0	3
196122	0	91	978	394	3	1	0	23	110	61	82	304	76	89	144	122	13	0	0	197
839200	0	0	0	1	2	0	0	0	0	0	19	14	46	9	4	121	106	1	0	168

Table S3 E

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
4483037	7	219	385	520	373	5	9	27	290	35	16	85	12	34	42	83	197	0	1	98
376862	0	14	18	0	16	0	3	0	0	0	5	2	0	1	5	0	0	0	0	128
148671	0	7	12	34	5	0	0	0	0	0	0	0	1	0	2	3	2	0	0	9
194504	0	10	0	0	0	20	4	0	0	1	2	25	6	0	0	5	0	0	0	0
4442899	0	7	10	21	10	10	2	0	3	0	0	1	1	1	0	2	8	0	0	6
278712	1	12	11	7	25	1	0	8	1	0	1	2	2	3	2	8	1	3	0	1
4469233	1	5	17	7	2	0	0	0	0	0	0	0	2	1	0	8	4	0	0	8
184484	2	23	22	36	111	15	19	9	61	4	34	237	11	99	90	20	11	0	0	71
655793	0	19	15	6	38	20	1	0	0	0	2	0	0	0	0	4	3	0	0	19
405780	0	25	0	12	9	4	1	95	58	1	2	0	0	2	7	15	19	0	0	34
174824	0	77	36	81	0	0	0	0	0	0	1	44	0	0	3	0	0	0	0	306
181193	0	0	0	1	47	3	0	1	0	0	1	0	1	0	3	5	1	0	0	3
3974550	527	11	90	60	5	0	0	0	0	0	0	0	0	0	0	31	46	19	60	36
173916	0	3	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	6
197623	232	125	266	158	437	200	561	1310	1284	2255	241	43	59	132	278	111	333	319	567	56
628218	0	7	1	0	0	2	0	0	0	0	0	1	0	3	2	1	12	0	0	0
175706	44	87	91	360	407	606	59	2792	1184	73	249	55	100	16	91	6	5	0	0	16
183106	1	16	39	8	4	1	8	0	0	0	9	1	3	4	23	1	1	11	16	6
267958	1	69	29	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
189288	0	10	15	41	0	0	0	81	381	9	2	13	6	16	137	11	7	0	0	12
177621	2	16	1	10	12	1	636	6	78	6	0	1	3	19	5	4	7	0	0	0
829240	0	6	1	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2645488	0	1	12	1	3	0	0	0	0	0	0	0	1	0	0	225	74	0	0	0
186886	0	25	86	42	0	4	1	0	1	0	50	50	9	11	191	8	8	1	0	0
210262	1	21	26	28	88	9	2	0	0	0	3	0	1	6	0	0	0	0	0	16
271822	0	217	351	151	0	0	0	56	240	6	65	337	26	15	6	84	21	0	0	259
196746	5	6	20	73	1	3	0	0	0	0	6	0	8	5	16	6	44	0	1	11
179343	1	25	25	3	2	2	6	0	0	0	7	0	3	1	12	0	1	16	2	3
4435934	0	5	12	17	0	0	0	0	0	0	0	0	5	4	2	45	42	0	0	39
746679	206	1326	609	2622	117	0	0	0	0	0	23	31	10	68	321	2	0	0	6	0
4481506	0	0	0	0	0	0	0	0	0	0	1	2	99	233	1876	1	95	0	0	0
4357315	2	5	84	29	16	6	11	2	2	36	2	2	13	0	3	16	5	0	0	2
452014	0	6	24	23	5	1	1	0	2	4	3	0	1	0	0	0	0	0	0	0
68844	2	23	1	32	0	0	0	0	7	0	0	0	0	3	9	0	27	0	0	0
272593	0	2	4	7	2	28	5	9	1	2	0	1	4	4	3	104	91	66	8	273
182995	327	3	66	257	219	70	6	0	0	0	47	3	7	10	52	74	47	1035	810	8
4383135	1	33	6	6	0	123	34	0	0	4	3	4	0	0	0	0	0	0	0	1
328143	0	2	1	2	0	6	1	23	2	12	8	0	11	12	3	5	3	1	4	3
185614	9	2	2	22	31	23	0	0	0	0	15	0	2	10	5	9	1	18	28	0
4378081	2393	40	0	10	61	28	3930	861	802	137	2	2	569	29	106	34	6	28	27	8
162539	0	44	0	194	6	134	12	0	0	0	192	620	93	535	260	0	0	0	0	202
4459184	1	0	0	10	0	40	4	254	59	7	5	1	2	0	0	0	0	0	0	0
586453	0	1	4	39	0	0	0	0	0	0	1	0	8	0	0	13	1	174	280	2
827487	105	704	337	1135	48	0	1	0	0	0	0	5	5	4	24	0	0	0	1	0
184966	0	0	0	0	0	1	1	0	0	2	0	0	212	88	23	654	41	0	0	0
209028	0	1	3	2	2	8	0	0	0	0	6	0	3	9	4	1	0	0	3	0
197600	0	5	115	44	16	29	15	71	246	5	0	0	549	56	22	14	13	0	0	30
4446120	0	64	46	7	3	9	0	0	0	0	3	30	66	113	91	68	41	0	0	0
356187	0	0	0	2	0	9	3	0	0	0	12	13	0	0	0	0	0	0	0	0
1108078	0	6	4	13	0	0	0	0	0	0	1	3	0	0	0	5	0	0	0	0
1105589	0	4	2	1	4	5	1	3	1	0	9	0	2	5	9	3	3	1	0	2
4342104	585	194	575	709	772	74	51	95	123	61	14	11	56	58	98	322	173	1	0	5

Table S3 E

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
180476	0	11	28	21	1	0	0	7	11	1	25	86	36	39	22	24	3	0	0	20
4335302	0	2	0	0	79	4	0	0	0	0	0	0	0	4	0	0	0	0	0	1
158302	0	1	0	0	1	0	0	0	0	0	0	0	0	4	1	23	15	67	0	2
445144	2	3	1	4	2	15	5	6	3	7	5	2	1	3	3	58	18	7	2	5
184753	104	28	27	5	45	3	15	0	4	2	0	0	7	3	12	3	2	12	15	0
192712	262	241	334	510	287	183	118	1	0	5	599	115	138	351	713	918	299	578	958	573
4414242	0	11	7	10	0	0	0	0	0	5	0	2	1	2	2	7	6	0	0	4
255098	88	2	16	15	1	0	0	0	0	0	0	0	0	0	0	4	5	5	4	6
173892	0	26	13	28	15	3	0	0	0	0	6	25	2	2	10	9	11	0	0	3
4329776	0	0	6	9	3	0	0	0	1	1	2	4	0	2	4	12	4	7	1	7
4483585	0	11	64	16	0	1	0	0	0	0	0	0	13	2	0	22	1	1	0	0
114111	0	347	403	116	43	69	18	98	498	78	12	38	377	347	354	154	56	219	716	21
214715	13	3	12	9	29	3	6	14	5	42	1	0	0	2	2	0	2	5	6	2
262159	0	0	0	0	0	7	2	0	0	0	2	14	3	1	0	0	1	0	0	228
277364	131	207	315	482	630	148	14	2344	1535	2092	643	195	549	306	925	249	38	441	839	199
195433	0	1	1	0	23	1	0	0	0	1	0	0	0	0	0	3	0	3	0	3
4449236	297	501	784	1380	113	324	1764	164	92	198	310	63	126	141	340	1074	38	59	1572	60
269401	1	5	13	32	21	5	0	0	0	0	0	3	0	3	1	2	1	0	0	2
261177	33	533	1233	625	466	477	24	1	0	1	248	11	459	384	288	232	277	601	339	55
261178	0	0	0	0	5	1	0	0	0	0	0	0	0	0	0	14	0	0	0	0
190673	7	55	8	54	52	138	503	0	0	12	282	22	247	182	544	107	88	463	728	292
176836	0	11	2	4	0	36	1	0	0	1	1	1	2	1	0	0	4	0	0	3
188116	0	1	11	15	30	0	0	0	0	0	57	84	6	35	14	12	23	0	0	45
234121	0	1	0	0	2	0	0	1	0	0	35	0	1	0	0	0	0	0	0	0
144207	316	10	62	48	9	0	0	0	0	0	0	0	0	0	0	1	1	0	5	2
188786	0	3	3	5	8	1	3	5	3	0	3	20	2	3	0	4	32	8	19	1
196856	0	10	12	11	8	0	2	3	4	2	2	9	2	1	2	4	2	6	3	28
214116	0	27	10	1	11	67	7	0	0	0	117	738	0	9	43	0	0	22	12	3
265047	0	0	0	0	12	2	0	0	0	0	0	5	0	0	0	149	0	0	0	0
415491	3	19	11	8	80	2	0	0	1	0	3	5	2	3	5	10	1	2	7	0
4390365	0	17	245	44	230	8	0	46	54	4	0	0	0	0	15	0	0	0	0	0
174667	0	12	43	57	122	3	1	103	66	223	106	379	18	103	86	25	71	1	0	1007
2901239	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
273687	0	65	56	68	1	4	0	0	0	0	1	1	1	0	1	11	14	0	0	0
319165	1	23	28	48	18	0	8	3	2	0	3	9	0	2	3	0	1	9	7	14
269426	1	48	8	44	14	0	0	0	1	2	0	4	0	2	0	11	2	0	0	2
270303	0	17	36	56	37	15	1	0	0	1	5	2	7	4	6	18	18	0	0	17
329271	0	4	8	12	1	5	0	0	0	0	3	2	6	10	1	0	0	0	0	13
198024	0	1	9	2	30	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
896545	10	0	3	3	0	0	1	0	0	1	68	0	0	0	0	0	0	0	0	0
263705	0	15	62	40	0	31	4	0	1	0	27	55	4	36	13	0	0	0	0	22
174418	9	167	2	82	2	4	2	0	1	5	339	733	0	83	46	119	129	5	1	154
174417	0	2	4	27	0	0	1	0	0	0	14	0	0	0	0	0	0	0	0	0
184329	11	0	9	34	84	31	0	0	0	0	16	1	4	8	22	5	1	22	27	0
192342	0	0	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0
4453773	22	33	56	59	120	80	358	16	127	132	2	3	7	2	12	43	12	40	222	29
372473	240	16	35	40	5	1	4	14	1	0	1	1	52	1	1	0	0	1	0	0
199698	235	52	121	60	4	12	3	0	0	0	19	6	3	15	49	4	7	10	13	20
191067	0	0	1	0	0	1	2	0	0	3	37	19	41	26	18	238	514	7547	1071	753
453896	447	56	106	75	95	5	14	51	39	112	42	8	12	33	18	22	9	10	29	7
179548	12	123	107	148	264	2	0	73	13	0	21	1	6	17	36	21	2	2	8	13
179547	9	7	55	77	19	57	8	183	327	339	25	101	70	63	174	53	115	0	1	42

Table S3 E

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
113978	13	16	38	36	32	1	0	78	0	1	0	0	0	0	0	0	0	0	0	0
3449666	0	0	0	0	0	0	0	0	0	0	50	26	1	0	0	11	19	47	171	49
4468234	7	2	6	0	5	0	1	0	5	1	0	2	1	0	10	14	6	102	115	13
4466275	0	17	37	25	8	5	1	0	0	0	22	6	7	3	4	12	1	0	0	18
186742	0	86	2	98	0	4	1	14	6	1	9	7	6	21	27	8	7	19	21	22
308332	3	176	219	74	41	14	5	20	11	61	47	5	422	69	258	56	809	5	1	0
318819	0	13	3	6	2	0	0	0	1	0	0	0	0	0	5	5	12	0	0	2
4379449	0	16	140	27	145	25	7	182	227	18	0	0	2	2	63	0	0	0	0	0
105109	1	27	59	46	239	20	3	0	0	0	3	1	1	4	1	0	0	0	0	38
261132	1	50	58	134	34	10	0	20	67	2	4	5	6	3	1	4	1	0	0	17
808794	2	14	0	21	0	1	0	0	9	0	1	4	0	2	1	3	75	1	1	1
407393	133	16	36	29	40	2	3	16	14	48	8	0	5	5	3	5	0	6	3	1
267406	0	17	16	16	3	4	0	0	0	0	4	12	1	1	0	0	0	0	0	0
672655	22	42	57	88	115	5	0	107	52	68	15	7	10	7	21	19	2	33	44	16
260989	0	0	0	0	0	9	0	18	3	0	3	9	8	0	3	0	2	0	0	7
2877100	0	88	186	244	18	9	6	0	0	1	6	2	3	5	25	53	1	0	0	27
305787	1	6	2	4	40	3	0	0	0	0	0	1	0	0	2	4	6	4	21	2
302641	0	2	16	25	94	1	4	3	1	4	0	2	1	0	2	4	8	0	1	6
1992	17	69	41	55	56	3	181	15	23	5	5	4	18	2	27	3	0	1	1	1
353073	1	6	3	12	7	20	0	13	2	7	10	1	5	6	4	10	0	3	3	2
134762	403	342	439	1011	178	1751	1453	2408	1856	4566	3067	387	1230	1137	1005	3207	972	838	1872	1104
175646	0	95	24	54	0	5	1	2	0	0	27	13	121	38	151	109	110	14	15	40
263518	69	10	22	47	6	59	124	46	116	193	15	38	50	28	36	27	67	30	34	9
2137001	1341	213	309	57	343	54	185	20	77	40	1	25	34	6	98	12	6	43	91	6
3231096	30	3	14	7	13	2	3	8	4	17	8	1	11	9	14	30	8	12	43	11
176444	314	818	373	307	1548	170	387	0	2	5	271	75	649	314	1022	269	60	1063	949	402
261114	0	0	1	19	0	50	6	1	0	0	0	0	4	0	1	19	1	0	0	0
191216	7	7	9	78	115	4	20	4	5	20	0	0	0	0	1	15	4	0	0	10
191218	38	160	785	522	67	30	181	288	48	310	256	134	136	40	366	0	0	427	762	36
167509	0	5	0	0	83	31	2	0	0	0	0	0	4	17	14	0	0	0	0	10
175416	0	7	4	15	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0
183829	0	1	3	15	11	59	216	99	96	289	2	3	5	3	28	102	23	0	0	3
4462541	5	912	1	169	1023	307	29	54	90	6	87	629	0	0	0	0	0	0	0	0
2154095	3	30	126	101	59	1	0	0	1	0	2	10	1	0	0	8	12	231	44	20
4416434	1	8	9	13	368	82	8	0	3	3	77	190	3	10	7	31	49	3	4	110
440840	0	5	2	4	6	2	1	1	9	0	2	1	0	0	1	0	9	3	2	1
40798	0	7	52	52	2	2	0	1	5	0	1	16	4	0	2	0	0	0	0	0
229452	0	54	36	88	38	14	1	12	14	2	17	100	6	17	5	10	12	0	0	46
229455	0	6	2	22	0	2	12	0	0	0	4	6	1	0	3	7	4	0	0	9
178480	0	170	0	2	0	19	2	0	0	1	18	22	38	12	9	0	55	0	0	195
4454025	0	0	1	0	13	4	646	33	53	158	1	0	31	1	12	1	1	608	554	3
4470092	1	1	1	0	9	4	0	2	21	0	4	21	12	6	4	12	0	3	0	0
259846	7	0	0	0	205	415	12	546	3535	48	319	1965	944	787	315	2316	23	1	2	7
177068	4	32	64	237	9	5	1839	80	312	18	105	400	65	17	96	69	427	131	760	21
97263	0	3	1	13	114	32	3	0	2	1	0	1	0	0	1	352	76	0	0	269
197099	0	9	28	33	9	3	0	6	5	0	1	12	3	8	4	9	7	0	0	5
265976	0	0	0	1	2	0	0	0	0	0	0	1	0	0	0	1	0	0	0	3
324999	0	0	0	0	4	0	0	0	0	0	0	2	0	0	0	1	0	0	1	0
262677	0	18	10	15	0	26	4	0	0	0	9	20	0	0	0	6	1	0	0	6
647320	0	31	39	86	63	8	0	67	8	1	8	56	3	12	3	24	27	0	0	13
174573	16	189	134	208	314	5	1	120	28	4	78	10	14	36	92	124	14	13	36	86
174571	2	56	492	199	1	0	1	1	18	9	16	53	19	10	30	30	4	1	1	67

Table S3 E

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
1571092	0	0	0	0	133	100	14	0	0	0	776	145	1	1	0	0	2	1	0	0
177271	6	467	1040	409	1541	280	491	70	119	1114	118	89	124	461	597	1057	619	5	1	0
4207913	1	56	23	9	84	3	5	7	10	3	1	2	3	0	2	0	0	0	1	0
1112121	0	19	2	1	0	7	0	0	0	0	0	0	1	3	2	8	11	0	0	0
4334624	14	58	17	44	49	3	20	26	162	10	28	80	124	83	237	36	15	0	0	81
390896	26	46	83	84	90	53	24	92	74	108	16	3	16	8	27	25	3	10	18	5
129394	0	0	0	0	0	2	0	0	0	0	1	1	17	3	4	147	0	0	0	0
2897325	0	28	4	1061	127	23	20	30	239	313	18	67	17	24	33	501	463	90	38	94
786708	2	4	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180235	0	0	0	0	2	34	3	0	0	0	10	4	8	2	27	19	38	0	0	19
185036	8	86	36	131	122	55	221	0	1	5	25	1	28	20	87	5	2	35	41	16
130335	0	0	0	0	12	0	0	1	3	0	4	20	2	4	0	24	0	0	0	13
259249	14	32	0	358	0	0	0	0	0	0	0	0	0	0	533	0	0	0	0	0
98048	1	17	33	19	99	9	4	0	1	0	2	12	22	45	30	50	19	0	0	5
261892	0	0	23	0	1	21	4	0	0	0	19	29	46	40	16	173	0	0	0	150
1594231	0	0	0	0	82	0	0	11	38	4	7	44	1	2	2	46	0	0	0	8
4374042	44	2786	11	4481	2085	511	19	0	2	0	323	336	268	328	162	0	0	0	0	26
204111	4	47	11	17	117	7	1	0	0	0	2	0	12	11	18	2	0	15	9	9
274380	0	1	1	2	0	0	1	1	3	0	1	1	0	1	0	1	0	1	0	1
176957	0	12	2	7	5	0	0	4	2	0	1	1	4	2	0	4	1	1	0	2
198238	0	5	23	8	1	4	3	0	2	0	0	1	30	20	9	2	6	0	6	1
1110253	15	53	108	153	129	19	0	0	0	9	11	74	36	24	17	132	5	0	0	217
171079	0	2	54	7	17	0	0	43	50	1	0	0	1	0	2	0	3	0	0	2
174004	79	340	213	147	131	62	38	1	0	2	267	55	314	105	496	446	114	191	208	191
182712	0	0	1	8	0	5	0	0	0	0	17	15	7	20	7	1	1	0	0	16
4417539	0	1	0	0	0	0	196	0	0	0	0	0	0	362	207	0	0	0	0	0
1107303	0	71	6	62	0	0	0	0	0	0	1	1	1	4	4	0	2	5	3	10
310407	0	0	0	0	150	0	0	84	266	5	114	447	14	31	8	709	2	0	0	200
201374	52	2	6	11	1	0	0	0	0	0	0	0	0	0	0	3	6	3	1	10
261409	0	1	1	1	0	0	0	0	4	2	0	0	0	1	0	47	6	0	0	0
320972	0	10	1	34	54	12	1	0	0	0	0	0	0	0	1	0	0	0	0	0
196974	1	10	26	15	5	2	0	19	4	0	0	4	2	2	2	9	0	0	0	1
345362	224	12	20	40	5	2	17	54	1	1	0	0	37	0	3	2	0	2	3	0
134065	1	93	24	130	0	0	0	0	0	133	13	29	42	34	21	1105	486	1	1	167
191616	1	11	132	341	1	132	8	90	274	7	20	406	54	33	8	176	10	0	0	0
460953	53	8	63	28	1	264	42	0	0	1	218	11	62	159	87	96	3	0	0	26
174768	18	39	83	901	1	0	0	0	0	0	385	5	5	1	0	0	0	0	0	0
312322	0	3	5	5	2	13	4	6	5	12	8	1	57	64	33	3	2	0	1	95
724472	0	0	29	16	0	0	1	0	1	0	0	2	0	0	0	0	0	0	0	0
207749	0	29	2	71	0	0	0	0	0	0	3	0	30	16	46	28	2	25	1	2
189730	23	43	97	113	85	792	499	1057	1127	1841	326	48	318	120	507	471	123	191	279	106
187841	395	65	105	14	131	10	24	2	12	2	0	6	10	2	28	1	0	12	23	0
186073	0	126	244	389	23	42	9	0	0	0	21	16	11	15	18	40	92	0	0	30
1087825	1	0	0	0	0	2	0	29	4	45	265	258	14	70	27	202	67	0	0	121
47477	0	17	14	7	0	0	0	6	3	7	0	2	0	0	11	1	0	0	0	10
4296701	0	4	38	44	7	5	0	10	24	3	0	5	2	3	8	3	4	0	0	1
169428	63	16	23	14	17	0	3	3	3	3	0	1	0	0	0	0	4	0	1	0
306469	0	124	26	23	0	0	0	0	0	0	133	662	98	99	50	554	1	0	0	118
833390	0	21	653	90	3	0	0	0	1	0	207	1103	1	0	1	0	2	0	0	0
315147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	3	161	78	11
342962	0	0	0	0	0	0	0	0	0	0	22	19	46	12	131	59	3	0	0	31
929476	133	10	23	25	5	5	16	69	1	3	0	0	34	0	4	1	0	1	0	0

Table S3 E

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
635059	0	0	0	0	0	5	2	0	0	0	6	2	31	8	11	233	1	0	0	0
228310	0	413	231	474	0	150	22	0	0	0	70	79	0	3	2	0	0	0	0	446
172705	14	0	1	4	263	0	0	0	0	0	0	0	0	0	5	0	0	0	0	84
185177	0	28	13	8	7	2	0	0	1	0	0	0	10	5	5	0	26	0	0	0
413996	1877	148	523	325	315	304	659	1738	1787	5405	2742	557	940	982	1161	1590	304	367	1767	652
1106683	0	22	3	14	2	1	0	0	0	0	5	2	0	13	9	14	8	2	0	1
4314257	14	14	65	72	23	37	2	69	115	103	5	57	18	14	85	91	108	1	1	54
271013	30	47	40	20	52	0	1	0	3	1	0	2	0	0	0	2	1	0	3	1
264101	4	124	245	148	11	5	0	0	0	0	0	1	39	14	8	1	0	0	0	0
4402042	0	13	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72820	2	0	0	0	0	12	9	15	6	113	1	0	7	8	31	4	15	10	170	5
194944	0	7	3	6	6	1	0	1	8	0	1	11	2	4	2	1	6	0	0	1
166535	4	15	3	4	4	0	0	0	0	3	0	0	25	18	14	30	1	0	1	5
247557	0	2	21	2	53	3	2	0	0	0	1	0	2	0	0	1	3	0	0	14
1871	0	25	0	46	26	6	0	0	0	4	6	1	3	2	0	0	0	0	0	3
350666	4	46	148	80	29	5	47	59	21	8	10	25	12	12	7	51	21	112	37	23
190242	0	3	10	12	0	2	0	0	0	0	17	0	21	20	6	8	20	0	0	0
100344	0	0	0	2	0	2	37	1	3	17	32	180	37	1	11	0	0	0	0	0
186338	0	35	44	88	289	50	27	0	0	5	2	0	6	2	4	1	0	0	0	0
542096	18	128	17	177	39	17	1	16	163	4	9	33	19	25	36	110	167	2	4	0
619224	69	25	19	18	20	0	7	20	4	16	2	0	1	2	1	2	23	31	7	57
179695	0	2	1	1	1	0	0	0	1	0	0	0	0	1	0	0	2	0	0	0
263664	25	159	121	237	304	35	1	1117	279	20	752	70	142	439	967	766	51	59	190	345
265992	0	7	2	3	0	0	0	0	11	2	0	0	0	0	0	62	10	0	0	0
184209	1480	225	352	56	430	43	167	24	61	34	2	27	43	5	108	6	5	42	79	1
261992	11	161	256	337	46	4	600	116	197	66	489	1887	37	271	157	10	85	2075	1576	1320
299858	0	7	16	42	9	0	56	1	5	0	1	7	1	0	3	2	5	4	12	0
259699	9	48	213	268	42	90	44	145	324	15	84	224	77	60	104	91	65	0	0	58
193723	1	7	3	11	18	0	0	0	0	0	10	3	6	11	11	54	12	34	57	32
204144	0	14	8	23	1	1	14	0	0	0	13	1	9	13	36	21	6	1	1	0
199403	6	8	10	21	24	6	76	11	13	0	0	1	4	0	4	12	7	11	19	21
1106468	8	3	6	4	3	0	0	1	2	1	3	0	5	3	8	13	4	10	13	14
176760	1	11	11	14	9	2	1	0	0	1	11	2	13	12	21	6	4	11	9	6
827592	0	28	3	24	0	5	1	0	0	0	6	2	1	1	0	1	1	0	0	5
416043	34	186	163	312	373	2	1	187	32	3	64	5	14	53	95	47	0	2	6	17
258641	0	0	0	0	15	24	1	0	0	0	2	1	0	0	0	1521	0	0	0	0
36647	1	66	26	80	1	7	1	0	3	0	0	0	0	0	1	0	0	0	0	0
258423	0	123	38	62	7	21	3	0	0	0	34	141	11	13	6	0	0	0	0	1
258421	41	0	5	322	2	88	11	276	249	607	20	3	0	5	150	26	9	0	0	44
186555	0	25	60	22	72	7	996	0	1	1	51	185	66	33	238	1	44	4	0	83
306699	0	1	8	15	14	3	19	2	3	0	0	0	0	0	0	0	0	0	0	1
335267	0	0	13	6	6	0	0	0	0	0	1	2	3	2	1	21	8	19	3	17
771177	0	88	6	64	0	5	0	100	154	2	3	10	2	88	91	9	0	0	0	61
204171	47	16	25	13	3	1	1	0	0	0	5	0	0	2	6	1	1	4	6	8
299267	3	2	1	7	0	0	0	0	0	0	0	0	51	0	1	0	0	0	0	0
264802	0	0	11	0	1	3	1	0	0	0	1	0	1	1	0	1	0	0	0	0
4296218	0	20	0	19	47	3	1	0	0	0	2	0	1	12	2	0	0	0	0	8
162005	0	7	2	29	28	34	3	1	0	3	32	15	16	24	33	15	16	0	0	25
176242	0	49	216	120	3	1	0	0	0	3	0	0	0	0	0	0	1	0	0	0
310751	0	4	0	1	0	0	0	0	0	0	14	82	14	32	20	39	1	0	0	6
813217	14	95	40	147	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165430	0	4	5	12	0	2	1	0	0	3	33	59	6	6	1	385	15	0	0	103

Table S3 E

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
522371	1	5	4	19	5	0	16	29	27	0	0	2	6	1	9	5	2	5	5	1
593043	4	1	4	6	14	7	3	6	4	6	5	1	19	10	17	0	5	13	8	1
304047	1953	2306	1752	1564	3206	598	606	1197	2559	1748	729	714	2104	1084	4030	4504	1047	1812	4320	499
2084364	293	13	26	56	8	19	136	554	9	17	4	1	931	11	38	6	2	3	4	1
313724	0	3	33	20	1	0	0	1	5	4	1	11	3	3	5	16	4	0	0	34
2937207	0	2	1	22	4	10	40	0	0	23	5	181	108	3	6	0	0	0	0	0
175213	0	5	1	4	11	0	0	5	0	1	1	20	0	4	5	1	6	1	1	10
4480555	22	463	785	1454	825	2	70	422	3313	569	611	2101	463	680	1054	1288	4372	5	0	2359
4480557	27	450	714	1573	2	0	0	8	18	0	0	1	59	54	153	10	548	0	0	170
175077	1	3	2	4	4	0	0	2	1	0	0	0	0	1	2	1	7	1	1	2
188266	0	21	3	20	1	1	0	0	1	0	0	0	1	2	4	0	12	0	0	1
259578	0	11	11	15	2	15	3	4	2	0	1	1	0	0	0	4	3	1	0	0
177512	116	1	37	121	107	18	4	0	0	0	14	0	3	4	11	12	7	52	39	0
3319464	0	0	0	5	0	0	14	0	3	20	78	9	112	0	4	0	0	0	0	0
3390534	3	10	15	43	13	4	27	3	8	1	4	2	2	3	1	1	3	12	4	0
277067	0	1	8	9	5	7	1	95	159	2	26	124	88	116	39	87	1	0	0	119
199674	0	0	1	1	0	2	0	0	1	0	0	0	0	0	1	53	0	0	0	1
3920500	7	95	161	232	196	140	11	10	36	5	83	441	166	158	89	185	172	0	0	0
265483	0	32	0	58	103	31	0	0	0	27	10	20	98	43	17	26	0	0	0	68
399606	10	63	34	37	262	6	2	10	2	1	7	23	11	7	9	44	3	3	15	5
192971	2	47	576	248	2	1	0	14	58	46	23	123	40	41	48	75	7	0	0	179
275218	0	22	61	12	0	81	5	48	63	3	20	82	27	6	7	9	7	0	0	18
228043	1	3	7	9	0	0	0	0	0	72	7	6	1	0	0	11	45	1	0	2
261486	0	12	10	20	9	1	0	2	6	0	1	1	3	0	0	2	0	0	0	0
297577	0	6	5	3	61	3	1	4	2	1	8	7	0	5	0	10	3	4	1	7
3150250	0	3	1	3	6	0	0	0	0	0	0	0	18	28	18	46	6	0	0	113
578016	0	0	0	0	0	1	0	0	2	0	1	0	2	1	4	3	0	2	7	0
637546	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
195691	0	1	10	3	19	0	0	0	0	0	0	1	0	0	0	6	10	4	1	6
4483570	6	25	5	12	14	0	6	19	17	0	0	0	12	4	9	26	1	10	27	2
4306262	22726	495	2873	6901	3834	14425	14570	18207	18964	23964	4124	179	23576	7351	29529	33	493	4770	6798	603
184451	2	311	424	124	51	8	1	13	7	32	11	0	85	13	49	25	313	0	0	0
184456	12	0	1	8	12	2	0	0	0	0	2	0	0	0	4	1	4	27	18	0
814952	1	9	2	17	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
264225	0	1	3	0	0	0	1	1	2	0	19	3	0	1	1	48	4	0	1	6
198865	11	19	20	12	8	2	1	20	1	0	13	0	3	28	36	11	5	4	6	10
4405128	16	368	10	290	0	133	6	0	0	2	149	216	145	85	37	0	0	0	0	25
3265889	0	2	3	4	2	173	9	9	39	551	88	105	7	227	1533	117	7	1	0	67
1107652	0	30	8	16	6	4	1	0	0	0	13	0	15	13	42	20	23	39	21	
195337	0	0	0	0	18	0	0	23	45	12	15	0	0	2	3	880	0	0	0	0
196672	0	0	6	27	36	19	0	0	0	0	11	0	4	4	5	7	2	14	24	0
269726	3	130	59	56	28	13	3	0	0	0	73	35	53	41	13	41	44	16	31	50
179457	378	100	37	23	30	61	4	0	0	1	202	33	56	30	34	3	31	69	13	22
637934	5	29	76	59	24	5	1	0	0	0	195	84	43	128	50	19	35	0	0	88
262917	2	77	23	139	1	190	19	0	2	0	0	0	0	0	0	0	0	1	0	0
1108599	24	27	31	22	21	3	4	3	3	44	46	4	1	5	11	0	4	0	0	0
339329	0	3	1	2	6	0	0	0	2	0	0	0	0	0	1	17	7	1	0	0
2875735	0	0	2	0	1	698	1989	307	991	580	35	728	940	210	2384	292	98	1261	2444	173
4402834	0	2	13	5	1	0	0	0	0	0	0	0	2	1	4	16	0	0	0	3
313898	0	5	5	17	0	0	0	1	2	0	0	0	1	2	4	0	11	0	0	3
176071	18	29	26	16	24	2	57	2	11	3	1	3	0	3	22	0	1	0	0	1
277497	0	5	3	0	6	0	0	0	0	0	0	0	1	0	0	28	0	0	0	3

Table S3 E

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
349343	0	1	0	0	5	0	0	0	0	0	0	0	3	0	4	16	0	0	0	0
203605	628	146	293	113	26	17	9	0	0	0	25	6	3	25	96	15	10	15	11	25
4389125	2	3	2	3	1	21	2774	59	395	213	93	121	66	70	1135	96	31	15	36	6
170926	1	14	1	144	1	39	6	0	0	1	0	0	0	0	1	0	0	0	0	1
4448052	0	9	100	79	68	42	257	18	67	1	12	35	14	2	1	3	7	0	0	12
174698	0	6	9	7	13	5	0	1	3	0	1	3	0	3	8	6	8	0	0	1
332962	0	16	7	14	161	5	0	6	1	1	11	13	2	6	6	16	7	7	3	10
3610691	36	1	2	8	2	0	10	7	1	0	1	1	3960	12	165	1	0	10	21	0
4390754	0	26	77	82	4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
4457427	0	16	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
320169	17	0	0	11	0	0	31	399	230	622	8	3	39	14	102	3	3	4	0	4
265116	0	0	2	14	0	157	3	0	0	2	0	0	2	0	0	5	1	0	0	0
269125	124	22	38	40	37	1	42	134	44	107	5	5	2	16	9	30	159	89	64	292
4449518	4	1091	215	488	51	55	5	0	0	3	210	9	73	237	325	900	249	0	0	527
561069	85	89	40	68	9	1	7	0	0	12	5	4	1	6	2	6	21	0	0	4
299171	0	1	8	3	9	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0
40230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	10	43	2	107
569818	6	58	16	67	11	1	6	5	29	2	1	7	3	5	4	6	6	10	1	1
319219	0	5	4	4	2	3	0	0	1	0	0	1	4	1	0	12	11	0	0	4
198964	391	124	229	113	12	38	18	0	0	0	46	4	6	30	104	30	17	17	16	47
618010	0	7	2	10	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
342075	0	4	5	3	4	1	0	4	0	0	1	1	1	0	0	1	2	0	0	0
135956	12	3	8	3	4	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
3919797	15	94	98	77	36	28	6	0	0	32	43	188	27	15	11	123	29	0	2	23
265301	0	21	6	22	13	1	0	0	0	1	0	0	1	0	0	6	5	0	0	1
578058	0	2	2	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
10196	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
259511	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
183619	7	4	10	11	21	1	8	5	8	4	2	3	10	3	18	20	1	7	9	0
261076	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
270391	14	78	10	96	57	3	555	1030	832	90	3	12	483	120	458	151	16	125	186	16
4440624	0	15	2	8	22	19	12	0	1	24	7	5	114	24	7	8	7	0	1	16
4460604	1	0	141	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	2
95424	0	38	247	139	1	3	1	7	27	0	7	11	1	3	5	4	12	1	0	13
436341	0	4	4	8	15	0	0	0	0	0	2	1	2	4	2	6	2	1	1	0
295075	0	9	25	12	55	1	0	1	3	1	0	1	0	0	1	4	1	4	0	8
1678333	0	3	4	6	1	0	0	0	0	26	26	1	3	4	1	1	0	0	0	676
243185	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175998	0	3	3	16	0	5	0	3	5	6	0	0	1	0	0	4	0	13	9	0
3267277	26	226	92	332	18	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
1931575	0	0	0	6	11	1	0	48	3	3	1	2	0	2	1	0	4	0	0	5
337784	0	16	41	46	3	3	1	0	0	1	3	0	3	0	0	7	6	0	0	12
1921818	1	24	47	56	57	9	0	0	0	0	1	0	0	0	1	0	1	0	0	1
3172949	0	117	239	62	15	20	234	0	0	1	597	51	90	198	1406	39	46	337	509	131
3172943	3	10	5	6	22	6	1	0	1	1	7	2	9	14	12	14	3	10	6	4
645358	0	188	213	63	35	3	2	7	25	4	0	1	16	11	14	4	5	22	39	0
838685	0	0	0	0	3	0	467	0	0	3	0	3	11	1	253	8	6	57	105	11
828284	47	289	131	482	25	0	1	0	0	0	1	1	1	1	14	0	0	0	0	0
1111755	17547	25699	21624	11232	18443	10874	2003	7996	12932	235	13973	10690	6564	9649	18647	0	18502	14	5	0
188878	4	155	392	176	31	7	0	438	400	14	11	54	4	15	7	19	35	0	0	8
4401580	6	28	19	18	28	2	200	3	26	16	3	2	32	3	44	5	1	2	2	0
317854	572	24	101	66	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2



Table S3 E

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
4256470	182	7	10	13	0	0	531	416	106	48	18	7	135	31	38	22	53	18	35	51
839558	3	33	43	26	27	11	1	8	1	0	2	2	6	6	6	1	0	0	0	2
185743	0	29	15	18	101	17	1	0	3	6	1	1	4	22	17	37	28	2	2	2
4378740	13	0	0	4	0	0	2131	2	4	20	31	256	0	519	1651	62	0	279	578	6
266206	1	20	10	19	7	1	0	0	0	1	1	3	2	2	1	9	1	0	0	0
270513	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	34	4	0	0	2
334697	0	1	0	1	0	0	0	0	0	0	4	1	0	0	2	5	4	107	5	10
4352471	2	5	7	14	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
4426367	189	25	151	99	93	21	82	1	0	3	1	6	87	12	35	4	2	0	0	4
209030	18	177	147	148	2	75	893	1	0	10	152	40	208	85	582	117	57	533	653	175
190646	0	2	2	7	0	2	0	0	0	0	5	11	6	3	2	2	0	1	0	2
172389	0	2	0	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	6
213896	3	171	69	125	10	4	2	0	0	108	84	66	29	47	24	16	84	0	0	19
161762	0	111	4	7	1	4	2	0	1	0	2	1	0	0	1	1	2	0	0	2
174441	2	50	50	54	286	4	0	0	6	0	4	4	12	10	11	24	9	0	0	8
135625	0	4	6	18	0	22	1	13	32	19	0	1	5	0	0	5	2	146	140	5
4365109	0	0	0	1	0	0	0	1	1	0	1	1	0	0	0	12	2	19	1	24
832558	0	21	154	156	135	134	962	71	200	6	42	166	47	23	9	14	43	0	0	27
4464113	29	65	122	223	118	179	13	113	185	6	42	236	174	43	319	136	208	1	0	91
1105376	621	0	5	398	0	1	168	0	0	12	2107	878	506	620	1111	2004	251	1	3	137
346275	1	11	13	23	11	0	4	0	1	0	0	0	0	0	0	1	0	6	0	3
3505032	999	24	171	120	11	0	0	0	0	0	0	0	0	0	0	23	63	13	39	28
4355436	0	0	2	1	0	55	14	3	0	2	60	87	2	2	52	4	0	0	0	0
4480176	8	222	277	331	1222	159	22	0	0	0	26	13	6	23	13	7	0	0	0	143
344527	0	17	121	81	4	21	3	1	1	0	0	1	10	10	37	24	11	0	0	9
4372003	251	17	11	45	40	220	1806	126	257	509	22	13	3373	67	1108	37	13	170	231	14
172464	0	0	0	0	0	1343	116	162	177	15	46	245	59	24	311	122	218	1	0	0
289709	100	4	18	32	4	0	11	27	0	0	0	0	9	0	0	0	0	0	0	0
174854	4	61	53	32	0	7	1	11	32	32	1	2	0	2	3	0	2	3	6	32
830014	0	14	153	17	0	7	0	0	0	0	37	116	46	9	5	85	0	0	0	51
189666	0	5	13	4	12	2	1	5	3	0	2	8	1	4	0	10	7	0	0	10
304416	0	2	9	8	5	1	0	2	1	0	1	0	0	0	0	3	0	0	0	0
214835	7	33	4	33	21	1	0	11	88	3	31	52	3	10	22	40	34	1	0	31
260346	1	7	5	0	0	2	1	0	0	2	3	5	0	0	0	0	1	0	0	71
195445	0	1	174	28	0	2	0	0	0	0	0	0	13	7	4	0	0	0	0	0
263420	2	10	7	15	17	21	1	8	2	8	26	3	10	35	28	19	4	4	17	6
187959	1	9	1	8	31	3	0	45	4	3	12	1	3	7	10	8	0	1	1	5
199707	2	10	4	11	17	0	0	45	5	45	12	0	34	6	11	5	1	1	9	0
175485	1	11	1	4	54	11	2	4	4	1	0	3	23	2	35	2	0	9	4	1
193064	0	14	3	23	0	0	0	46	43	2	18	33	5	14	5	169	133	0	0	149
174285	0	124	41	21	0	8	1	0	0	169	0	0	7	11	1	14	13	0	0	4
1110752	108	578	1250	876	968	233	17	606	223	14	207	16	145	127	94	161	128	393	162	20
177414	2	20	9	13	13	20	3	0	0	0	13	2	11	31	47	6	2	4	2	12
882782	1	22	12	12	22	0	0	13	3	7	4	0	4	0	4	0	0	3	3	1
180465	0	15	6	4	1	1	0	0	0	3	0	0	0	0	0	1	0	0	0	0
1113553	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	31	76	24	54	46
347490	4	33	4	47	6	1	1	4	36	0	9	16	7	23	13	21	106	4	0	3
322991	2	12	10	28	0	19	0	0	0	0	24	6	0	0	1	3	1	6	6	8
4327628	44	2	5	7	0	0	1	3	1	0	0	0	523	3	25	0	0	1	7	0
819999	1	9	4	22	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
4402077	1	50	6	8	3	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
63144	338	8	58	38	5	0	0	0	0	0	0	0	0	0	0	7	31	14	14	28

Table S3 E

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
233691	0	17	162	54	0	28	0	8	99	4	0	4	0	0	0	0	1	0	0	0
1108453	11	422	2297	1594	19	12	0	1	8	17	2	4	1	0	1	30	15	0	0	0
38278	42	10	76	20	2	91	21	0	0	3	80	1	81	176	66	35	3	0	0	35
181419	0	5	15	11	17	1	1	1	0	0	9	4	0	2	1	24	1	0	1	25
183675	1	73	69	135	45	52	4	162	367	15	62	74	122	27	28	42	1	1	0	105
259901	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0
322839	1	638	1195	161	1229	322	36	1632	2011	77	1372	1115	610	1235	559	1352	22	1065	512	161
194388	2	11	25	90	6	2	338	11	49	2	10	36	3	1	8	10	44	23	66	3
307416	0	0	0	0	62	9	1	0	0	45	21	45	1	0	0	12	227	1459	1378	521
190063	0	111	143	39	32	0	0	2	0	1	1	0	8	0	7	0	26	0	0	0
313274	0	6	18	7	185	6	2	2	2	1	0	2	4	0	1	3	1	0	0	2
1136443	117	7829	16	13696	5791	5599	157	0	3	7	4469	4250	3466	4336	1815	0	0	0	0	288
421893	0	2	1	1	13	0	1	1	0	0	2	1	4	3	1	6	3	0	2	0
3325760	0	0	0	0	15	0	0	0	0	0	0	0	0	1	0	1	10	0	0	0
343130	1	12	0	13	0	0	0	0	10	0	0	0	0	17	10	0	181	2	0	0
174260	0	2	58	45	0	5	0	0	0	0	36	27	5	1	0	48	14	0	0	44
4453627	0	5	11	6	2	5	1	0	0	0	1	0	0	1	3	215	0	0	0	2
348785	0	1	0	0	22	4	0	1	0	0	0	0	0	5	3	8	0	0	0	0
189789	0	2	2	8	2	0	1	0	0	0	0	1	0	0	0	0	0	0	1	5
3056461	5	117	51	42	273	13	5	20	29	3	3	4	17	2	21	47	15	111	83	23
188785	0	1	0	0	85	17	2	0	0	0	300	276	44	31	17	0	94	0	0	0
354736	0	3	0	4	2	60	7	665	175	19	92	465	61	89	52	422	384	3	1	182
263953	0	5	7	9	8	0	15	0	0	0	0	8	1	0	4	1	1	0	0	0
635304	19	178	82	310	15	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0
309663	164	1493	5	2106	5	0	1	1	3651	80	74	10	156	1466	3064	11	18361	42	9	2
198604	42	14	27	13	0	2	0	0	0	0	9	0	3	5	33	4	2	2	4	8
205160	9	12	11	24	32	18	0	48	9	18	17	5	2	11	19	7	4	7	15	8
264657	0	37	24	17	4	3	1	1	0	4	1	0	180	107	413	253	21	189	153	87
273928	1	11	21	39	7	3	0	1	3	0	0	4	3	4	4	1	2	0	0	1
197025	0	58	605	229	2	0	1	11	19	19	19	29	17	19	30	27	3	0	0	42
157999	1	0	1	0	31	15	1	14	116	2	22	169	114	77	30	339	2	0	0	1
385545	1	36	21	24	137	6	3	6	0	0	5	3	7	5	6	106	0	4	6	6
186777	0	13	41	41	20	7	19	2	37	0	5	1	1	0	152	5	26	0	0	57
30067	0	29	33	307	66	16	1	1	2	0	1	2	32	26	15	0	1	1	1	1
177205	4	8	5	12	24	5	0	58	5	16	6	0	8	10	9	8	0	5	8	1
4401375	100	26	31	24	85	31	157	191	254	140	12	2	120	14	174	4	2	71	505	5
176139	0	0	0	0	7	1	0	0	0	19	11	1	0	1	0	2	0	0	0	9
3998912	2	0	0	0	1106	666	57	0	0	4	0	0	0	0	0	0	0	0	0	0
175114	2	74	418	285	0	0	0	0	0	2	0	0	0	0	0	2	5	0	0	0
176868	5	1	0	1	0	0	2	99	410	6	103	10	0	0	196	1	10	0	0	83
191878	0	0	0	1	30	3	0	63	314	103	0	0	13	9	56	1073	35	0	0	125
259195	0	5	11	18	17	2	0	0	1	0	0	1	3	7	4	1	0	0	0	0
174791	43	19	22	30	19	0	37	180	124	188	49	3	55	15	100	171	131	168	154	32
2624257	1690	256	376	76	453	20	25	7	19	5	0	17	20	8	63	28	17	133	276	19
271734	0	1	10	19	0	0	0	0	0	0	0	0	0	0	0	6	21	0	0	25
174420	13	1	9	6	1	5	3	0	0	1	2	0	2	2	1	5	0	0	0	1
1517779	26	336	145	86	723	343	137	472	821	58	41	107	312	95	500	75	32	287	253	39
1108378	0	8	33	15	0	0	0	0	0	0	0	3	3	1	5	9	11	0	0	0
319816	2	28	62	43	18	2	1	25	12	1	0	7	11	9	1	241	31	20	6	12
606063	0	1	2	8	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
4420272	4	0	0	0	140	25	2	33	266	3	8	75	35	28	14	136	0	1	0	0
266091	0	9	21	11	5	0	0	2	3	12	0	1	0	1	0	0	1	0	0	0

Table S3 E

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
177014	402	449	529	945	470	850	522	1	0	24	2779	560	597	1381	2750	1613	562	827	2012	1181
2978254	1	46	274	716	437	439	24	25	76	8	2	1	2	21	42	17	184	0	0	27
51677	0	345	155	358	522	25	3	71	102	4	23	98	11	132	70	76	76	50	71	45
345211	2	27	73	37	10	5	25	23	10	7	0	2	8	4	3	25	8	49	25	5
4476330	0	4	11	23	17	2	0	2	1	0	47	13	7	24	68	154	114	0	0	30
113417	80	20	79	64	13	8	23	7	11	28	0	2	1	3	2	2	6	2	5	1
174651	0	4	120	19	0	0	0	0	0	0	22	1	1	0	27	0	33	0	0	34
263366	0	5	9	7	1	26	1	0	0	0	5	1	1	5	14	2081	0	0	1	7
178068	14	1	0	13	11	4	0	0	0	0	2	1	0	1	3	14	5	52	35	1
273904	0	2	4	1	0	0	0	0	3	4	0	0	0	1	1	28	2	0	0	0
258559	3	1195	1893	127	0	0	0	0	0	0	52	93	1	29	12	0	13	0	0	0
2315700	0	62	258	408	43	39	1	27	78	0	8	11	13	5	17	96	153	1	0	32
4418586	9	327	590	318	0	0	0	0	0	0	0	0	157	93	617	2719	23	1	0	224
276629	5	7	8	16	9	16	5	44	6	28	19	0	8	11	8	10	1	0	4	1
4424327	1	109	992	469	5	37	10	71	290	243	542	1159	388	315	470	378	36	0	0	752
831301	0	1	61	27	58	1	1	19	38	1	1	3	1	2	82	586	95	1	0	13
190026	0	0	0	0	0	0	0	0	2	0	0	1	290	292	127	316	372	1	0	81
4476780	0	14	3	1	12	2	1	6	2	0	3	0	154	3	35	12	1	0	0	0
570367	4	66	42	77	33	2	4	12	19	3	5	2	2	2	4	5	23	15	6	1
210950	1	62	24	117	1	5	241	1	0	0	462	149	121	273	812	349	150	10	29	4
4366524	0	6	24	12	6	5	2	0	0	0	3	0	0	0	0	0	0	0	0	0
272192	0	0	0	1	1	20	1	44	86	49	12	15	9	14	61	9	15	1	0	2
136604	0	0	0	3	110	21	3	2	153	3	72	17	251	104	39	310	218	0	0	0
192316	133	126	163	239	155	75	44	0	0	1	407	76	93	219	473	385	106	244	378	300
2072645	31	1	3	6	1	0	3	19	0	1	0	1	30	0	1	0	0	0	1	0
181719	13	157	99	104	252	33	10	0	0	85	214	293	2335	169	235	429	61	0	0	363
292892	0	19	0	1	23	3	0	0	0	1	0	6	1	2	1	4	0	0	0	0
340600	0	3	0	0	0	0	0	0	0	0	49	12	14	19	4	0	0	0	0	1
261590	35	75	91	34	100	3	4	3	49	15	17	16	4	1	2	215	4	23	139	149
168984	0	54	75	144	0	3	0	0	0	0	10	7	3	12	5	3	1	0	0	0
1703712	12	119	79	68	179	1	2	0	1	9	11	17	129	7	15	61	2	1	1	59
264345	0	2	2	0	0	0	0	60	1	1	30	17	0	18	21	279	49	0	0	87
209845	2	27	192	728	10	80	7	0	0	5	0	0	12	12	5	56	1	0	0	0
198209	18	19	33	12	38	3	8	2	16	8	16	19	3	2	1	165	4	23	157	56
171532	1	0	2	4	0	0	0	0	0	0	4	75	46	13	36	230	123	0	0	0
299600	0	19	141	392	3	11	3	0	0	1	0	0	1	1	1	15	1	0	0	0
273967	0	1	3	1	4	5	249	0	0	0	0	0	49	22	20	9	14	0	0	29
4449984	0	5	3	12	6	8	1	0	0	2	0	17	1	15	44	112	110	0	0	16
325850	690	98	81	39	44	2	57	30	48	4	2	2	22	6	59	7	4	26	37	4
801260	1	47	23	29	7	831	1318	1	1	743	4	0	5	19	78	1	8	7	22	9
259631	0	2	169	16	89	12	1	0	0	0	2	9	3	0	0	261	88	0	0	122
278609	1	54	508	231	3077	93	564	72	111	112	26	90	28	15	35	32	33	7	8	83
264155	0	2	0	3	0	2	0	11	19	2	18	14	0	0	1	0	2	0	0	7
333576	0	15	3	24	1	0	0	0	3	0	0	0	0	3	1	0	18	0	0	0
194665	12	1	25	93	370	22	1	0	1	0	79	57	38	16	3	0	0	0	0	0
194662	0	1	0	6	5	2	0	2	1	0	0	0	1	0	0	0	0	0	0	0
2897332	0	22	22	32	83	25	3	65	152	13	12	15	12	6	17	140	78	77	37	71
178490	0	1	0	0	114	30	1	33	20	23	15	26	19	12	34	273	99	188	104	44
262801	5	104	10	35	0	29	3	0	0	0	202	8	4	324	139	0	0	1	0	83
4471130	0	14	12	9	3	7	1	0	3	309	3	2	3	0	2	6	88	0	2	224
4471135	0	9	30	16	0	1	0	0	0	0	5	14	0	0	0	1	0	0	0	0
259275	0	9	11	10	32	4	0	0	3	0	1	4	1	1	3	4	5	0	0	3

Table S3 E

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
198194	2	30	523	124	37	43	6	225	210	568	23	62	38	20	100	35	10	0	0	39
575261	4	16	4	16	8	0	0	0	17	0	0	1	2	4	1	3	11	4	0	0
258849	15	551	496	317	2	82	986	3	1	9	203	58	235	113	693	129	84	595	785	207
4045882	0	0	0	0	19	4	1048	30	76	246	0	0	53	0	24	0	0	913	878	14
177917	0	14	15	5	4	2	0	0	0	0	6	1	0	1	12	0	0	7	11	2
298973	0	12	26	53	12	1	92	2	19	1	3	4	0	1	2	2	5	3	6	0
835456	0	42	130	44	0	27	1	0	0	0	0	0	0	0	0	0	1	0	0	0
276663	0	14	69	29	102	3	0	4	7	11	2	0	1	0	0	3	2	4	0	2
3868285	3	1	36	27	1625	378	31	448	3	32	785	353	109	187	680	717	6	1	1	451
276484	0	1	7	15	0	11	10	194	348	16	0	0	0	0	0	0	0	0	0	0
192598	1	55	115	169	0	29	3	0	0	0	0	0	0	0	0	10	22	0	0	27
4343528	0	35	47	32	83	4	1	1	1	1	15	61	6	3	19	8	2	0	1	12
260233	0	47	46	93	6	3	0	0	0	0	0	1	0	1	1	3	10	1	0	0
174770	0	1	0	2	1	4	0	1	1	0	0	3	0	6	3	1	2	0	0	0
272953	0	1	3	16	20	15	5	16	29	1	4	33	26	9	9	6	10	0	0	40
176886	12	26	36	46	36	59	26	85	85	116	11	1	11	12	23	23	2	16	12	11
4466618	10	5	1	4	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
259870	0	0	0	0	0	0	0	0	0	1	5	58	10	4	1	1	0	320	229	40
4450025	0	1	7	1	79	0	0	4	5	1	4	20	2	0	2	13	0	0	0	1
661055	0	0	0	0	0	0	0	0	0	0	0	0	4	5	16	21	25	0	0	0
210292	5	143	388	537	212	167	14	146	599	18	228	800	129	235	209	273	482	2	0	295
166099	0	20	37	23	142	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3
345582	0	3	3	1	23	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0
261334	0	2	7	8	7	0	1	0	1	0	1	0	0	2	2	1	0	0	0	0
136783	0	28	7	9	0	3	0	2	0	5	0	0	0	1	1	0	0	2	0	0
314424	1	10	15	23	4	0	6	0	1	0	0	4	1	0	0	0	0	0	2	1
771140	0	0	0	0	0	35	14	0	1	0	52	23	297	98	117	2776	2	0	1	0
177930	1	0	0	0	7	1	2	1	1	0	2	0	0	2	0	10	5	1	15	1
274095	0	4	2	13	0	0	0	0	0	0	0	0	8	1	3	1	3	0	0	55
185519	0	3	3	5	3	1	1	0	0	0	1	2	1	1	15	7	0	0	0	22
162639	165	204	144	194	396	761	1260	1516	2022	1256	186	73	1035	126	552	92	35	44	72	72
578649	2	54	38	46	73	3	3	3	8	0	0	3	0	2	0	3	10	16	3	6
312311	3	67	79	101	63	3	22	11	16	11	10	41	4	8	9	4	4	31	18	44
569522	24	293	235	342	100	14	47	52	207	16	13	42	16	24	34	52	99	103	15	10
2212505	3167	1165	1688	2274	1142	55	615	2857	2288	6256	1527	181	2140	412	2726	809	693	909	945	145
214120	2	7	2	6	2	9	0	0	1	1	16	3	6	22	30	16	2	2	10	6
258411	0	9	2	6	32	2	0	1	0	0	1	1	2	1	1	5	3	0	0	0
4371295	5	5	14	63	5	3	549	20	86	4	42	155	35	5	56	69	338	150	565	31
2797565	0	132	126	123	87	10	2	0	0	0	14	14	28	2	0	0	0	0	0	9
1991255	0	9	5	17	8	0	0	0	0	0	5	17	1	1	0	3	2	0	0	3
261350	0	84	98	197	618	800	337	8	4	98	82	14	145	42	229	61	10	31	6	0
14035	6	24	92	14	1	21	2	8	236	7	3	26	10	5	3	0	0	0	0	0
264325	1	27	29	85	0	133	15	0	0	0	47	40	60	30	88	81	17	19	58	18
437137	755	498	1475	937	1702	367	846	2964	1337	3114	966	39	76	259	2376	679	167	635	1143	379
4481359	0	27	58	45	23	7	1	0	0	0	36	123	0	0	0	0	0	0	0	44
112720	1	23	6	35	5	10	1	1	1	0	0	0	5	0	3	30	9	9	25	11
311788	1843	184	516	291	331	48	95	266	256	680	187	44	77	102	95	205	40	51	209	53
833381	0	11	13	3	4	2	0	1	1	0	0	0	0	1	0	2	0	0	0	3
177952	4	27	48	286	167	458	407	82	264	139	190	706	428	429	247	104	54	107	220	86
4483264	0	8	12	16	22	4	0	0	1	0	5	10	1	4	2	10	0	0	0	18
310781	0	1	56	49	0	9	0	0	0	0	0	0	74	38	11	0	0	0	0	13
4477372	0	21	14	1	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1

Table S3 E

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
342685	0	35	30	114	0	17	1	0	0	0	0	0	73	89	37	0	0	0	0	24
4413888	27	0	111	35	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2191
273091	7	28	9	28	1	6	1	1	4	0	4	33	0	0	1	1	29	0	0	0
324013	0	6	4	14	5	17	0	6	0	2	7	5	8	6	9	23	4	4	3	6
177371	391	4	113	333	256	74	6	0	0	0	55	1	12	12	32	61	23	159	223	6
4393892	0	21	8	16	0	3	4	0	0	1	8	49	1	8	6	1	0	0	0	6
4378477	1726	53	299	244	27	0	0	0	0	0	0	0	0	0	0	19	33	19	36	31
4327763	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	4	1	5	2	5
1902400	6	50	23	16	29	5	3	0	1	1	39	86	16	6	22	104	49	233	3698	192
181091	0	3	2	0	5	3	0	5	9	0	0	10	3	6	5	16	1	0	0	0
4384058	18	3	3	18	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0
1112373	22	16	14	27	18	0	0	0	0	0	1	0	1	0	5	0	1	0	0	2
180879	3	58	226	119	254	45	4	0	0	217	34	46	72	16	347	538	117	2	0	92
356226	0	7	1	3	0	14	0	13	1	8	11	0	5	11	11	9	2	1	7	5
197706	0	4	4	6	7	3	0	13	15	2	24	49	17	7	5	8	15	0	0	40
264468	2	972	5267	4419	42	183	3	41	78	277	6	35	37	40	101	564	341	2	0	0
186549	1	12	6	12	3	2	3	0	0	3	1	2	0	1	1	2	4	0	0	1
185550	1490	98	309	291	14	497	25	0	0	3	960	117	220	609	1436	403	215	2	1	729
177748	1	4	2	1	3	1	0	0	0	0	0	8	3	5	4	6	0	0	0	1
189309	12	10	9	124	114	15	70	32	26	58	0	0	1	3	4	175	40	0	0	113
688800	1	28	58	125	0	3	1	0	0	0	0	0	0	0	0	1	0	0	0	0
3013444	0	183	168	184	676	239	20	0	0	13	156	696	1804	166	2444	58	108	263	422	49
174056	5	61	62	73	0	8	16	0	0	1	132	38	12	29	82	83	12	101	19	45
583266	1	8	3	2	37	0	0	7	0	0	2	1	0	1	0	2	0	0	1	0
180077	1351	8	315	1141	913	1135	81	0	1	5	1778	42	271	325	876	1286	632	4341	7827	76
813805	3	11	11	16	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
381666	250	42	218	142	102	213	736	0	3	33	9	61	2407	291	795	175	117	6	44	86
4449524	1	1	0	23	79	350	14	0	1	8	1	0	23	0	0	0	0	0	0	0
4441792	506	11	95	85	12	0	48	0	15	51	9	2	0	5	9	11	21	5	22	9
259006	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	776	369	0	0	0
190114	0	0	0	0	0	86	91	119	56	9	9	0	12	41	69	110	32	2	0	0
175227	0	0	13	0	0	6	0	0	0	0	2	1	0	0	1	15	0	0	0	28
4464787	1	0	0	2	64	273	16	1	0	132	421	1467	278	113	1125	0	0	0	0	0
4433554	20	44	64	29	0	188	15	0	0	2	0	0	1	0	1	0	0	0	0	0
228798	0	24	36	54	179	57	7	0	0	2	58	50	2	26	12	0	0	0	0	21
1109929	3	105	89	181	5	12	0	22	202	10	36	31	154	71	205	361	347	2	0	158
191098	1	28	27	102	10	1	0	0	0	0	0	0	18	16	7	69	24	0	0	114
196664	0	10	3	0	13	1	0	6	2	1	0	2	52	2	4	3	0	0	3	2
279026	1	21	88	36	161	7	1	2	15	7	1	0	0	0	3	34	15	27	1	46
179958	9	93	48	100	131	47	122	1	1	0	28	4	29	14	90	9	6	46	68	16
206324	0	8	1	10	11	12	0	23	1	0	22	2	1	6	8	9	1	0	4	6
174071	0	0	0	0	70	6	3	0	0	0	0	0	0	0	0	2	75	0	0	0
288128	2	8	32	33	6	2	2	2	1	0	1	2	0	1	1	2	1	0	0	0
4453609	1	17	0	19	5	23	47	7	2	0	4	1	29	11	39	15	6	22	32	9
356164	13	42	13	20	82	2	0	4	2	2	3	0	12	10	18	20	0	5	11	0
577170	2	15	11	1	58	11	6	8	4	1	0	4	15	2	25	2	0	2	8	0
185125	0	106	236	114	172	68	9	46	5	5	249	202	53	67	33	190	60	1	0	159
185126	5	588	659	164	115	4	0	4	1	11	6	1	57	6	35	13	116	0	0	0
130663	26	59	29	39	45	5	181	2	23	11	3	4	0	3	21	4	1	0	2	0
277200	0	39	23	79	37	19	5	0	0	1	146	552	30	55	141	70	192	0	0	137
4364243	4	6	7	9	16	0	0	0	1	0	23	21	0	0	0	0	0	0	0	9
182470	0	2	16	13	11	0	0	38	17	38	4	2	4	9	3	2	8	0	0	27

Table S3 E

ID	P	P.1	P.2	P.3	P.4	P.5	P.6	P.7	P.8	P.9	P.10	P.11	P.12	P.13	P.14	P.15	P.16	P.17	P.18	P.19
166718	1	29	0	28	0	5	2	0	0	0	348	176	2	30	13	0	0	0	0	84
176008	0	3	1	5	7	1	0	0	1	0	0	1	0	1	0	1	1	0	0	0
1106101	0	0	0	66	0	0	155	0	0	6	0	1	0	6	8	0	0	31	43	0
584137	1	11	9	48	15	21	3	91	23	86	781	720	54	160	54	523	212	2	1	394
268384	1230	33	203	174	15	0	0	0	0	0	0	0	0	0	0	4	3	4	1	1
332608	3	17	142	76	41	38	64	1	4	222	35	54	39	1	19	91	32	1	0	5
303251	63	110	69	43	70	29	4	11	33	1	13	8	9	13	29	0	38	0	0	0
214919	21	521	341	1821	6	104	922	84	206	1075	91	50	161	57	141	1920	32	1	0	225
267388	0	79	29	26	0	0	2	0	0	0	1618	7577	1112	938	420	3806	21	1	0	803
187181	0	1	0	0	0	1	43	0	0	0	0	0	0	117	65	0	0	0	0	0
228556	12	125	59	229	12	0	0	0	0	0	0	1	1	4	11	0	0	0	0	0
129990	841	500	754	1609	0	500	35	1	0	1	2301	578	7	0	1	446	315	1010	2655	804
271572	0	5	2	4	19	0	0	0	2	0	0	3	0	0	0	1	1	0	0	1
3197419	0	9	5	13	1	0	2	5	7	1	11	65	1	16	12	10	18	67	29	15
187233	6	18	13	33	1	13	7	36	11	19	12	11	20	2	38	3	5	14	57	2
420168	0	0	9	1	4	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
189346	0	0	1	3	2	0	0	0	3	0	1	0	0	0	1	0	0	0	0	0
4472195	1	70	99	427	211	101	100	12	58	18	17	67	43	59	43	30	9	22	41	24
199137	0	3	5	11	11	3	0	0	0	0	4	6	2	10	17	0	2	0	0	10
264294	0	1	11	1	3	2	1	0	0	0	1	0	1	4	1	0	0	0	0	5
268844	0	0	1	0	19	0	0	1	0	0	0	0	0	1	1	36	3	0	0	2
179427	3	2	4	20	42	15	0	8	0	0	20	0	4	5	10	4	1	22	45	0
179426	8	20	5	24	21	1	0	1	10	0	1	6	1	1	3	1	0	0	0	4
331411	4	38	7	26	1	0	0	0	19	0	0	2	0	1	10	0	128	0	1	0
230268	0	1	11	2	0	42	3	1	0	0	9	3	1	0	1	0	0	0	0	3
271439	1	17	5	16	7	1	0	3	3	0	3	1	0	0	3	0	1	1	4	0
310760	0	25	27	32	28	0	5	3	2	3	3	8	1	0	1	3	2	6	5	14
170335	0	476	364	549	675	39	1	0	0	0	254	115	571	168	78	0	0	0	0	243
189476	0	194	56	131	13	27	3	31	38	0	5	15	8	28	15	17	26	17	34	7

Table S3 F. Taxonomy

ID	Taxonomy
181348	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Coprococcus; s__
3957916	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
244484	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
1111328	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
197452	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
269815	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
363383	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g__; s__
175080	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
179853	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
183089	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Clostridiaceae; g__; s__
263171	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
192222	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Prevotellaceae; g__; s__
276509	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
423455	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
267502	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
172163	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
828435	k_Bacteria; p_Firmicutes; c_Erysipelotrichi; o_Erysipelotrichales; f_Erysipelotrichaceae; g__; s__
289306	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
290253	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
216495	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4329450	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
271418	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
206817	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
197891	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
205134	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4352747	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s_ovatus
182043	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
274297	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
197782	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
1105328	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Coprococcus; s__
274438	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
191948	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
429917	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
22659	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Oceanospirillales; f_Halomonadaceae; g_Halomonas; s__
187272	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
277388	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
318079	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Clostridiaceae; g__; s__
148056	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_Plesiomonas; s__
270385	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
270382	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Clostridiaceae; g__; s__
301233	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
10518	k_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfovibrionales; f_Desulfovibrionaceae; g_Desulfovibrio; s__
827195	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
10512	k_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfovibrionales; f_Desulfovibrionaceae; g_Desulfovibrio; s__

ID	Taxonomy
338640	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
752584	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g__; s__
198998	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
4357147	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
196122	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
839200	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Dorea; s__
4483037	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
376862	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Clostridiaceae; g_Candidatus Arthromitus; s__
148671	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
194504	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
4442899	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
278712	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4469233	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
184484	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
655793	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
405780	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
174824	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
181193	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
3974550	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Alteromonadales; f_Shewanellaceae; g_Shewanella; s__
173916	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
197623	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
628218	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
175706	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
183106	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
267958	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
189288	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
177621	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
829240	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Aeromonadales; f_Aeromonadaceae; g__; s__
2645488	k_Bacteria; p_Firmicutes; c_Erysipelotrichi; o_Erysipelotrichales; f_Erysipelotrichaceae; g__; s__
186886	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
210262	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
271822	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
196746	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
179343	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4435934	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
746679	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g__; s__
4481506	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4357315	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
452014	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
68844	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
272593	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_[Ruminococcus]; s_gnavus
182995	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4383135	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
328143	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
185614	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__



ID	Taxonomy
4378081	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s__
162539	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g__ ; s__
4459184	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
586453	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Christensenellaceae; g__ ; s__
827487	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Aeromonadales; f_Aeromonadaceae; g__ ; s__
184966	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
209028	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__ ; s__
197600	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__ ; s__
4446120	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
356187	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
1108078	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
1105589	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__ ; s__
4342104	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Anaerotruncus; s__
180476	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
4335302	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
158302	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
445144	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__ ; s__
184753	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s__
192712	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__ ; s__
4414242	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__ ; s__
255098	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Oceanospirillales; f_Halomonadaceae; g__ ; s__
173892	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__ ; s__
4329776	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Coprococcus; s__
4483585	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
114111	k_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_RF32; f__ ; g__ ; s__
214715	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__ ; s__
262159	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
277364	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__ ; s__
195433	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
4449236	k_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Burkholderiales; f_Alcaligenaceae; g_Sutterella; s__
269401	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
261177	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__ ; s__
261178	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__ ; s__
190673	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__ ; s__
176836	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
188116	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
234121	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
144207	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Oceanospirillales; f_Halomonadaceae; g_Haererehalobacter; s_salaria
188786	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
196856	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
214116	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
265047	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__ ; s__
415491	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
4390365	k_Bacteria; p_Firmicutes; c_Erysipelotrichi; o_Erysipelotrichales; f_Erysipelotrichaceae; g__ ; s__
174667	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__ ; s__

ID	Taxonomy
2901239	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_[Ruminococcus]; s_gnavus
273687	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
319165	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
269426	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
270303	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s_
329271	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
198024	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
896545	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Pseudomonadales; f_Moraxellaceae; g_Acinetobacter; s_
263705	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Peptococcaceae; g_; s_
174418	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
174417	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
184329	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
192342	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_; s_
4453773	k_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfovibrionales; f_Desulfovibrionaceae; g_Desulfovibrio; s_
372473	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_Erwinia; s_soli
199698	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
191067	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
453896	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
179548	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
179547	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s_
113978	k_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfovibrionales; f_Desulfovibrionaceae; g_Desulfovibrio; s_
3449666	k_Bacteria; p_Cyanobacteria; c_4C0d-2; o_YS2; f_; g_; s_
4468234	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s_
4466275	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_; s_
186742	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
308332	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s_
318819	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
4379449	k_Bacteria; p_Firmicutes; c_Erysipelotrichi; o_Erysipelotrichales; f_Erysipelotrichaceae; g_; s_
105109	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
261132	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_; s_
808794	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s_
407393	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
267406	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s_
672655	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
260989	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
2877100	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_; s_
305787	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
302641	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s_
1992	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s_
353073	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
134762	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
175646	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
263518	k_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfovibrionales; f_Desulfovibrionaceae; g_; s_
2137001	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s_
3231096	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_

ID	Taxonomy
176444	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
261114	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s__
191216	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_; s__
191218	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Clostridiaceae; g_; s__
167509	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
175416	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
183829	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_; s__
4462541	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
2154095	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
4416434	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
440840	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
40798	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_; s__
229452	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
229455	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
178480	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
4454025	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s__
4470092	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s__
259846	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
177068	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
97263	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_; s__
197099	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
265976	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s__
324999	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
262677	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
647320	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
174573	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
174571	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
1571092	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
177271	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
4207913	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g_; s__
1112121	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
4334624	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s__
390896	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
129394	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
2897325	k_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfovibrionales; f_Desulfovibrionaceae; g_Bilophila; s__
786708	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_; s__
180235	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
185036	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
130335	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
259249	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
98048	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
261892	k_Bacteria; p_Firmicutes; c_Erysipelotrichi; o_Erysipelotrichales; f_Erysipelotrichaceae; g_Allobaculum; s__
1594231	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
4374042	k_Bacteria; p_Deferribacteres; c_Deferribacteres; o_Deferribacterales; f_Deferribacteraceae; g_Mucispirillum; s_schaedleri
204111	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__

ID	Taxonomy
274380	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
176957	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
198238	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
1110253	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
171079	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
174004	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
182712	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
4417539	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
1107303	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
310407	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
201374	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Oceanospirillales; f_Halomonadaceae; g_Halomonas; s__
261409	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
320972	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
196974	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
345362	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g__; s__
134065	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
191616	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
460953	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
174768	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
312322	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
724472	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Dorea; s__
207749	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
189730	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
187841	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s__
186073	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
1087825	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
47477	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
4296701	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
169428	k_Bacteria; p_Firmicutes; c_Bacilli; o_Lactobacillales; f_Lactobacillaceae; g_Lactobacillus; s__
306469	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
833390	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
315147	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
342962	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
929476	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g__; s__
635059	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
228310	k_Bacteria; p_Tenericutes; c_Mollicutes; o_Anaeroplasmatales; f_Anaeroplasmataceae; g_Anaeroplasma; s__
172705	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
185177	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
413996	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
1106683	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
4314257	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
271013	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
264101	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
4402042	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
72820	k_Bacteria; p_Actinobacteria; c_Actinobacteria; o_Bifidobacteriales; f_Bifidobacteriaceae; g_Bifidobacterium; s_longum

ID	Taxonomy
194944	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
166535	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
247557	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
1871	k_Bacteria; p_Deferribacteres; c_Deferribacteres; o_Deferribacterales; f_Deferribacteraceae; g_Mucispirillum; s_schaedleri
350666	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
190242	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
100344	k_Bacteria; p_Proteobacteria; c_Epsilonproteobacteria; o_Campylobacteriales; f_Helicobacteraceae; g__; s__
186338	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
542096	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
619224	k_Bacteria; p_Firmicutes; c_Bacilli; o_Lactobacillales; f_Lactobacillaceae; g_Lactobacillus; s__
179695	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Coproccoccus; s__
263664	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
265992	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
184209	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s__
261992	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
299858	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
259699	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
193723	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
204144	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
199403	k_Bacteria; p_Actinobacteria; c_Coriobacteriia; o_Coriobacteriales; f_Coriobacteriaceae; g_Adlercreutzia; s__
1106468	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
176760	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
827592	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
416043	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
258641	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
36647	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
258423	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
258421	k_Bacteria; p_Firmicutes; c_Erysipelotrichi; o_Erysipelotrichales; f_Erysipelotrichaceae; g_Allobaculum; s__
186555	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
306699	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
335267	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
771177	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
204171	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
299267	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g__; s__
264802	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
4296218	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
162005	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
176242	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
310751	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
813217	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_Klebsiella; s__
165430	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
522371	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g__; s__
593043	k_Bacteria; p_Verrucomicrobia; c_Verrucomicrobiae; o_Verrucomicrobiales; f_Verrucomicrobiaceae; g_Akkermansia; s_muciniphila
304047	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s_acidifaciens
2084364	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g__; s__

ID	Taxonomy
313724	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
2937207	k_Bacteria; p_Deferribacteres; c_Deferribacteres; o_Deferribacterales; f_Deferribacteraceae; g_Mucispirillum; s_schaedleri
175213	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
4480555	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
4480557	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
175077	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
188266	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
259578	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
177512	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
3319464	k_Bacteria; p_Proteobacteria; c_Epsilonproteobacteria; o_Campylobacteriales; f_Helicobacteraceae; g__; s__
3390534	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
277067	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
199674	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
3920500	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Dehalobacteriaceae; g_Dehalobacterium; s__
265483	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
399606	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
192971	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
275218	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
228043	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
261486	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
297577	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
3150250	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
578016	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Porphyrimonadaceae; g_Parabacteroides; s_distasonis
637546	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g__; s__
195691	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
4483570	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g__; s__
4306262	k_Bacteria; p_Verrucomicrobia; c_Verrucomicrobiae; o_Verrucomicrobiales; f_Verrucomicrobiaceae; g_Akkermansia; s_muciniphila
184451	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
184456	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
814952	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g__; s__
264225	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
198865	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4405128	k_Bacteria; p_Cyanobacteria; c_4C0d-2; o_YS2; f__; g__; s__
3265889	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
1107652	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g__; s__
195337	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
196672	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
269726	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
179457	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
637934	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
262917	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
1108599	k_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfovibrionales; f_Desulfovibrionaceae; g__; s__
339329	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
2875735	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s__
4402834	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__

ID	Taxonomy
313898	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
176071	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s__
277497	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
349343	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Dorea; s__
203605	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4389125	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s_fragilis
170926	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
4448052	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
174698	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
332962	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
3610691	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_Proteus; s__
4390754	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_[Ruminococcus]; s_gnavus
4457427	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Lachnospira; s__
320169	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
265116	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
269125	k_Bacteria; p_Firmicutes; c_Bacilli; o_Lactobacillales; f_Lactobacillaceae; g_Lactobacillus; s__
4449518	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g__; s__
561069	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Blautia; s__
299171	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
40230	k_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_RF32; f__; g__; s__
569818	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
319219	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
198964	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
618010	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g__; s__
342075	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
135956	k_Bacteria; p_Firmicutes; c_Bacilli; o_Lactobacillales; f_Lactobacillaceae; g_Lactobacillus; s__
3919797	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
265301	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
578058	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_Erwinia; s__
10196	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_Brenneria; s_quercina
259511	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
183619	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s__
261076	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Peptococcaceae; g_rc4-4; s__
270391	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g__; s__
4440624	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
4460604	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
95424	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
436341	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
295075	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_[Ruminococcus]; s_gnavus
1678333	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Coproccoccus; s__
243185	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Aeromonadales; f_Aeromonadaceae; g__; s__
175998	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_[Ruminococcus]; s_gnavus
3267277	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_Trabulsiella; s__
1931575	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
337784	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_[Mogibacteriaceae]; g__; s__

Table S3 F

ID	Taxonomy
1921818	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
3172949	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__ ; s__
3172943	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__ ; s__
645358	k_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_RF32; f__ ; g__ ; s__
838685	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
828284	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Aeromonadales; f_Aeromonadaceae; g__ ; s__
1111755	k_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfovibrionales; f_Desulfovibrionaceae; g__ ; s__
188878	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
4401580	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s__
317854	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Oceanospirillales; f_Halomonadaceae; g_Halomonas; s__
4256470	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s_ovatus
839558	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__ ; s__
185743	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
4378740	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Prevotellaceae; g_Prevotella; s__
266206	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
270513	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__ ; s__
334697	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
4352471	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g__ ; s__
4426367	k_Bacteria; p_Cyanobacteria; c_4C0d-2; o_YS2; f__ ; g__ ; s__
209030	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__ ; s__
190646	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__ ; s__
172389	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__ ; s__
213896	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__ ; s__
161762	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
174441	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
135625	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_[Ruminococcus]; s_gnavus
4365109	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
832558	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
4464113	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
1105376	k_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Burkholderiales; f_Alcaligenaceae; g_Sutterella; s__
346275	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
3505032	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Alteromonadales; f_Shewanellaceae; g_Shewanella; s_algae
4355436	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
4480176	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
344527	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__ ; s__
4372003	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Porphyrromonadaceae; g_Parabacteroides; s__
172464	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
289709	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g__ ; s__
174854	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
830014	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
189666	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__
304416	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__ ; s__
214835	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__ ; s__
260346	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__ ; s__
195445	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__ ; g__ ; s__



ID	Taxonomy
263420	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
187959	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
199707	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
175485	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s__
193064	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
174285	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
1110752	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
177414	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
882782	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
180465	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
1113553	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Oceanospirillales; f_Halomonadaceae; g_Halomonas; s__
347490	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
322991	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
4327628	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_; s__
819999	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_; s__
4402077	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
63144	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Oceanospirillales; f_Halomonadaceae; g_Halomonas; s__
233691	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
1108453	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
38278	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
181419	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
183675	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
259901	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s__
322839	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
194388	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
307416	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
190063	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
313274	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
1136443	k_Bacteria; p_Deferribacteres; c_Deferribacteres; o_Deferribacterales; f_Deferribacteraceae; g_Mucispirillum; s_schaedleri
421893	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
3325760	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
343130	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
174260	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
4453627	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s__
348785	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
189789	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
3056461	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g_; s__
188785	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
354736	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
263953	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
635304	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_; s__
309663	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
198604	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
205160	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
264657	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__

ID	Taxonomy
273928	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
197025	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
157999	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
385545	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
186777	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
30067	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
177205	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4401375	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s_uniformis
176139	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
3998912	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
175114	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
176868	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Dehalobacteriaceae; g_Dehalobacterium; s__
191878	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
259195	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
174791	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
2624257	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s__
271734	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
174420	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
1517779	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g__; s__
1108378	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
319816	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
606063	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_Erwinia; s__
4420272	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
266091	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
177014	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
2978254	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
51677	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
345211	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
4476330	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Coprococcus; s__
113417	k_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfovibrionales; f_Desulfovibrionaceae; g__; s__
174651	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
263366	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
178068	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
273904	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
258559	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
2315700	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
4418586	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
276629	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4424327	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
831301	k_Bacteria; p_Firmicutes; c_Erysipelotrichi; o_Erysipelotrichales; f_Erysipelotrichaceae; g__; s__
190026	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g_AF12; s__
4476780	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g__; s__
570367	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
210950	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4366524	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__

ID	Taxonomy
272192	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
136604	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
192316	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
2072645	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g__; s__
181719	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s__
292892	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
340600	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
261590	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Peptostreptococcaceae; g__; s__
168984	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
1703712	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s__
264345	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
209845	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
198209	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Clostridiaceae; g_SMB53; s__
171532	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
299600	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
273967	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
4449984	k_Bacteria; p_Firmicutes; c_Erysipelotrichi; o_Erysipelotrichales; f_Erysipelotrichaceae; g_Coprobacillus; s__
325850	k_Bacteria; p_Proteobacteria; c_Alphaproteobacteria; o_RF32; f__; g__; s__
801260	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
259631	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
278609	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
264155	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
333576	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
194665	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
194662	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
2897332	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_[Ruminococcus]; s_gnavus
178490	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
262801	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
4471130	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_[Ruminococcus]; s_gnavus
4471135	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
259275	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
198194	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
575261	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
258849	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4045882	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
177917	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
298973	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
835456	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
276663	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
3868285	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
276484	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s__
192598	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
4343528	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
260233	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
174770	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__

ID	Taxonomy
272953	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
176886	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4466618	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_Erwinia; s__
259870	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
4450025	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
661055	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
210292	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
166099	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
345582	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
261334	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
136783	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
314424	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
771140	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
177930	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
274095	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_[Ruminococcus]; s_gnavus
185519	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Coproccoccus; s__
162639	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
578649	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
312311	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
569522	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
2212505	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
214120	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
258411	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
4371295	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
2797565	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_[Mogibacteriaceae]; g__; s__
1991255	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
261350	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
14035	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
264325	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g__; s__
437137	k_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Burkholderiales; f_Alcaligenaceae; g_Sutterella; s__
4481359	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g__; s__
112720	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g__; s__
311788	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
833381	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Coproccoccus; s__
177952	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
4483264	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
310781	k_Bacteria; p_Cyanobacteria; c_4C0d-2; o_YS2; f__; g__; s__
4477372	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Coproccoccus; s__
342685	k_Bacteria; p_Cyanobacteria; c_4C0d-2; o_YS2; f__; g__; s__
4413888	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g__; s__
273091	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
324013	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
177371	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g__; s__
4393892	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f__; g__; s__
4378477	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Alteromonadales; f_Shewanellaceae; g_Shewanella; s__

ID	Taxonomy
4327763	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s_
1902400	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s_
181091	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
4384058	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_Salmonella; s_
1112373	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
180879	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s_
356226	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
197706	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
264468	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
186549	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
185550	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
177748	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
189309	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_; s_
688800	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_; s_
3013444	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_; g_; s_
174056	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
583266	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s_
180077	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
813805	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_Erwinia; s_
381666	k_Bacteria; p_Cyanobacteria; c_4C0d-2; o_YS2; f_; g_; s_
4449524	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Prevotellaceae; g_Prevotella; s_
4441792	k_Bacteria; p_Proteobacteria; c_Betaproteobacteria; o_Burkholderiales; f_; g_; s_
259006	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
190114	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_; s_
175227	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
4464787	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
4433554	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
228798	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
1109929	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
191098	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s_
196664	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s_uniformis
279026	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_[Ruminococcus]; s_gnavus
179958	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
206324	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s_
174071	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
288128	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_; s_
4453609	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Rikenellaceae; g_; s_
356164	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s_acidifaciens
577170	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s_
185125	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s_
185126	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_
130663	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_Bacteroidaceae; g_Bacteroides; s_fragilis
277200	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s_
4364243	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s_
182470	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s_

Table S3 F

ID	Taxonomy
166718	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
176008	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Blautia; s__
1106101	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
584137	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s__
268384	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Oceanospirillales; f_Halomonadaceae; g_Halomonas; s__
332608	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
303251	k_Bacteria; p_Proteobacteria; c_Deltaproteobacteria; o_Desulfovibrionales; f_Desulfovibrionaceae; g_; s__
214919	k_Bacteria; p_Firmicutes; c_Bacilli; o_Turicibacterales; f_Turicibacteraceae; g_Turicibacter; s__
267388	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
187181	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
228556	k_Bacteria; p_Proteobacteria; c_Gammaproteobacteria; o_Enterobacteriales; f_Enterobacteriaceae; g_; s__
129990	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
271572	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
3197419	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s__
187233	k_Bacteria; p_Firmicutes; c_Bacilli; o_Lactobacillales; f_Lactobacillaceae; g_Lactobacillus; s__
420168	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Oscillospira; s__
189346	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
4472195	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_; s__
199137	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_Coproccoccus; s__
264294	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
268844	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
179427	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_S24-7; g_; s__
179426	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s__
331411	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
230268	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Ruminococcaceae; g_Ruminococcus; s__
271439	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__
310760	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_Lachnospiraceae; g_; s__
170335	k_Bacteria; p_Bacteroidetes; c_Bacteroidia; o_Bacteroidales; f_[Odoribacteraceae]; g_Odoribacter; s__
189476	k_Bacteria; p_Firmicutes; c_Clostridia; o_Clostridiales; f_; g_; s__