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The faecal microbiota is distinct in HLA-B27+ ankylosing spondylitis patients *versus* HLA-B27+ healthy controls

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Supplementary file

Supplementary Table S1. DeSeq2 output comparing TwinsUK and healthy control subjects.
Negative log2fold values indicate OTUs more abundant in the controls, while positive values indicate OTUs more common in patients.

	baseMean	log2FoldCh	lfcSE	stat	pvalue	padj	Kingdom	Phylum	Class
CDYS0102	61.27054	-27.4721	2.155006	-12.748	3.20E-37	4.83E-35	k__Bacteri	p__Bacterc	c__Bactero
DQ905838.	430.0969	-11.365	1.06306	-10.6908	1.12E-26	8.48E-25	k__Bacteri	p__Firmicu	c__Clostrid
HQ763129.	242.8133	-7.68611	0.980769	-7.83682	4.62E-15	2.33E-13	k__Bacteri	p__Bacterc	c__Bactero
DQ905358.	26.76829	3.509355	0.472557	7.426311	1.12E-13	4.22E-12	k__Bacteri	p__Firmicu	c__Clostrid
AB905821.	365.0852	-8.64378	1.170751	-7.38311	1.55E-13	4.67E-12	k__Archae	p__Euryarc	c__Methar
CCPS01000	1318.397	-4.93299	0.689836	-7.15097	8.62E-13	2.17E-11	k__Bacteri	p__Proteol	c__Gamma
AB506151.	84.214	-6.73809	0.988317	-6.81774	9.25E-12	2.00E-10	k__Bacteri	p__Firmicu	c__Clostrid
CDYN0101	209.6275	-6.2098	0.916525	-6.77537	1.24E-11	2.34E-10	k__Bacteri	p__Bacterc	c__Bactero
CEAX0102(	21.38545	-9.58077	1.429094	-6.70408	2.03E-11	3.40E-10	k__Bacteri	p__Firmicu	c__Clostrid
FPLO01005	273.9753	-6.13776	0.939604	-6.53228	6.48E-11	9.78E-10	k__Bacteri	p__Firmicu	c__Clostrid
BCXQ0100(	57.18429	3.757903	0.609615	6.16439	7.08E-10	9.71E-09	k__Bacteri	p__Actinob	c__Actinob
DQ905882.	135.7982	2.37819	0.400007	5.945377	2.76E-09	3.47E-08	k__Bacteri	p__Firmicu	c__Clostrid
DQ777883.	154.2081	2.550585	0.434109	5.875454	4.22E-09	4.90E-08	k__Bacteri	p__Firmicu	c__Clostrid
CDYX0100	107.0717	-5.79662	0.998959	-5.80266	6.53E-09	7.04E-08	k__Bacteri	p__Bacterc	c__Bactero
BAAY0100(	475.5569	-6.48418	1.138857	-5.69359	1.24E-08	1.25E-07	k__Bacteri	p__Firmicu	c__Clostrid
DQ905283.	319.4869	-7.80512	1.391743	-5.60816	2.04E-08	1.93E-07	k__Bacteri	p__Firmicu	c__Clostrid
CCIZ01000(	662.7908	-3.3304	0.596189	-5.58614	2.32E-08	2.02E-07	k__Bacteri	p__Bacterc	c__Bactero
ABCA0300(	282.6189	-4.79274	0.85899	-5.5795	2.41E-08	2.02E-07	k__Bacteri	p__Firmicu	c__Clostrid
DQ905926.	1210.211	-1.77997	0.323432	-5.50338	3.73E-08	2.81E-07	k__Bacteri	p__Bacterc	c__Bactero
FPLO01004	30.68447	2.429229	0.441191	5.506071	3.67E-08	2.81E-07	k__Bacteri	p__Firmicu	c__Clostrid
AY858424.	257.1555	-4.98334	0.908753	-5.48371	4.16E-08	2.99E-07	k__Bacteri	p__Firmicu	c__Clostrid
CDTY0100E	683.4383	-3.35723	0.645198	-5.20341	1.96E-07	1.34E-06	k__Bacteri	p__Bacterc	c__Bactero
CAEG0100(	314.6669	-2.72489	0.532299	-5.1191	3.07E-07	2.02E-06	k__Bacteri	p__Bacterc	c__Bactero
CDYK0104(	692.4097	-3.18332	0.624385	-5.09833	3.43E-07	2.16E-06	k__Bacteri	p__Bacterc	c__Bactero
CDZG0104	110.9161	-6.73221	1.342485	-5.01474	5.31E-07	3.21E-06	k__Bacteri	p__Firmicu	c__Clostrid
AGZP0100(	39.42541	-3.64175	0.737194	-4.94001	7.81E-07	4.54E-06	k__Bacteri	p__Bacterc	c__Bactero
CBXK0100(	1225.705	-2.93939	0.620051	-4.74057	2.13E-06	1.15E-05	k__Bacteri	p__Firmicu	c__Clostrid
HK240365.	1279.001	-3.59902	0.758318	-4.74606	2.07E-06	1.15E-05	k__Bacteri	p__Verruc	c__Verrucc
CDYU0105(	426.9151	-5.63888	1.210761	-4.6573	3.20E-06	1.67E-05	k__Bacteri	p__Teneric	c__Mollicu
CAHA0100(	185.1754	-3.59542	0.778009	-4.6213	3.81E-06	1.92E-05	k__Bacteri	p__Bacterc	c__Bactero
EF404796.1	55.48591	2.789391	0.605665	4.605501	4.11E-06	2.00E-05	k__Bacteri	p__Firmicu	c__Clostrid
AB506138.	588.4831	1.602605	0.350272	4.575314	4.76E-06	2.24E-05	k__Bacteri	p__Firmicu	c__Clostrid
DQ809162.	538.5353	-3.05539	0.676971	-4.51332	6.38E-06	2.92E-05	k__Bacteri	p__Bacterc	c__Bactero
BAAU0100	76.09011	1.990622	0.450351	4.420158	9.86E-06	4.38E-05	k__Bacteri	p__Firmicu	c__Clostrid
DQ799548.	84.35765	-2.3626	0.554871	-4.25792	2.06E-05	8.65E-05	k__Bacteri	p__Bacterc	c__Bactero
FPLO01002	254.8182	-5.1334	1.204825	-4.2607	2.04E-05	8.65E-05	k__Bacteri	p__Firmicu	c__Clostrid
ABVO0100(	178.2539	-3.7381	0.889447	-4.20272	2.64E-05	0.000108	k__Bacteri	p__Bacterc	c__Bactero
CDYX0100E	335.4496	2.823539	0.675123	4.182261	2.89E-05	0.000115	k__Bacteri	p__Firmicu	c__Clostrid
AB627692.	104.7288	-3.28859	0.789008	-4.16801	3.07E-05	0.000119	k__Bacteri	p__Firmicu	c__Clostrid
BABD0100(	1683.605	-1.73904	0.420391	-4.13671	3.52E-05	0.000133	k__Bacteri	p__Bacterc	c__Bactero
AB506261.	121.6278	1.765812	0.441417	4.000326	6.33E-05	0.000233	k__Bacteri	p__Firmicu	c__Clostrid
AZJE01000(	15.53895	2.137104	0.539748	3.959446	7.51E-05	0.00027	k__Bacteri	p__Firmicu	c__Clostrid
CDZA0106	286.3162	-4.49921	1.145035	-3.92932	8.52E-05	0.000299	k__Bacteri	p__Firmicu	c__Clostrid
AAVP0200(	117.0479	-2.42585	0.625985	-3.87526	0.000107	0.000366	k__Bacteri	p__Firmicu	c__Clostrid
LN907745.	156.4034	-1.98555	0.523932	-3.78972	0.000151	0.000506	k__Bacteri	p__Bacterc	c__Bactero
GQ468579.	73.82983	-2.72404	0.745482	-3.65407	0.000258	0.000847	k__Bacteri	p__Firmicu	c__Clostrid

KF842892.1	949.5042	-3.26793	0.900388	-3.62947	0.000284	0.000912	k__Bacteria	p__Firmicu	c__Clostrid
ADLF0100(	88.93026	-2.21326	0.621479	-3.56128	0.000369	0.001161	k__Bacteria	p__Bacterc	c__Bacterc
BABG0100	123.5695	-2.48054	0.710544	-3.49105	0.000481	0.001483	k__Bacteria	p__Bacterc	c__Bacterc
DQ905872.	233.3649	-3.06431	0.892845	-3.43208	0.000599	0.001809	k__Bacteria	p__Firmicu	c__Clostrid
FP929051.2	1299.131	-2.34464	0.707182	-3.31547	0.000915	0.002697	k__Bacteria	p__Firmicu	c__Clostrid
HQ801120.	103.9985	-1.69385	0.511538	-3.3113	0.000929	0.002697	k__Bacteria	p__Firmicu	c__Clostrid
AB494794.	276.0918	-1.61004	0.500375	-3.21767	0.001292	0.003682	k__Bacteria	p__Firmicu	c__Clostrid
CZAE0100(	213.024	-1.29557	0.408091	-3.1747	0.0015	0.004194	k__Bacteria	p__Bacterc	c__Bacterc
AB506372.	312.984	-2.93575	0.929477	-3.1585	0.001586	0.004354	k__Bacteria	p__Firmicu	c__Clostrid
New.Refer	74.74432	-1.74609	0.556744	-3.13625	0.001711	0.004614	k__Bacteria	p__Bacterc	c__Bacterc
CYYV0100(	534.5153	1.10702	0.360289	3.072589	0.002122	0.005622	k__Bacteria	p__Firmicu	c__Clostrid
DQ905947.	2967.165	-1.13257	0.381375	-2.9697	0.002981	0.007629	k__Bacteria	p__Bacterc	c__Bacterc
AB559621.	210.1283	2.233566	0.750902	2.97451	0.002935	0.007629	k__Bacteria	p__Actinob	c__Corioba
DQ804563.	42.02947	1.286805	0.439135	2.930315	0.003386	0.008522	k__Bacteria	p__Firmicu	c__Clostrid
FPLO01004	129.4909	1.392828	0.493127	2.82448	0.004736	0.011723	k__Bacteria	p__Firmicu	c__Clostrid
HQ778543.	155.5842	-1.41731	0.514618	-2.75411	0.005885	0.014333	k__Bacteria	p__Firmicu	c__Clostrid
AB506408.	86.27799	-1.52213	0.55853	-2.72524	0.006426	0.015401	k__Bacteria	p__Firmicu	c__Clostrid
AB506127.	844.9605	0.698868	0.258775	2.700681	0.00692	0.016326	k__Bacteria	p__Firmicu	c__Clostrid
ADKO0100	381.839	1.514598	0.591728	2.559617	0.010479	0.02409	k__Bacteria	p__Bacterc	c__Bacterc
FPLP01006	87.9956	4.326113	1.691245	2.557947	0.010529	0.02409	k__Bacteria	p__Firmicu	c__Erysipe
AB821837.	114.5447	-1.94025	0.774039	-2.50666	0.012188	0.027468	k__Bacteria	p__Firmicu	c__Clostrid
LK021123.1	376.1814	-1.15371	0.474457	-2.43164	0.015031	0.033377	k__Bacteria	p__Firmicu	c__Erysipe
CDYQ0103	83.35641	-2.62485	1.105483	-2.37439	0.017578	0.038468	k__Bacteria	p__Firmicu	c__Clostrid
LAQZ0100(	43.40164	-1.3462	0.574467	-2.34339	0.019109	0.041222	k__Bacteria	p__Firmicu	c__Clostrid
AYSG0100(	172.2606	1.200064	0.534228	2.246351	0.024682	0.052492	k__Bacteria	p__Firmicu	c__Bacilli
FPLO01007	6.947286	6.435061	2.958031	2.175454	0.029596	0.06207	k__Bacteria	p__Bacterc	c__Bacterc
LT622246.2	53.25573	1.459625	0.680936	2.143557	0.032068	0.066333	k__Bacteria	p__Bacterc	c__Bacterc
CDTY01027	72.91858	-1.01832	0.522411	-1.94928	0.051262	0.104603	k__Bacteria	p__Bacterc	c__Bacterc
FPLO01004	257.1258	0.585589	0.301672	1.941147	0.05224	0.105177	k__Bacteria	p__Firmicu	c__Clostrid
FMHB0100	77.25484	-3.26325	1.702493	-1.91675	0.05527	0.109654	k__Bacteria	p__Firmicu	c__Clostrid
CP015405.	31.19947	1.496287	0.782704	1.911689	0.055916	0.109654	k__Bacteria	p__Firmicu	c__Clostrid
CDZV01001	131.9581	1.370265	0.723432	1.894117	0.058209	0.112687	k__Bacteria	p__Firmicu	c__Clostrid
AAQL0101	529.1072	0.70033	0.372073	1.88224	0.059803	0.114308	k__Bacteria	p__Firmicu	c__Clostrid
CP007044.	1.947438	-3.73246	1.999154	-1.86702	0.061899	0.116834	k__Bacteria	p__Proteol	c__Gamma
CP001104.4	322.4974	-1.06279	0.604921	-1.75691	0.078934	0.147148	k__Bacteria	p__Firmicu	c__Clostrid
FPLO01006	231.8415	0.735973	0.426978	1.723678	0.084766	0.156094	k__Bacteria	p__Firmicu	c__Clostrid
AB506146.	110.6035	0.874541	0.5147	1.699125	0.089296	0.161269	k__Bacteria	p__Firmicu	c__Clostrid
FPLO0100(	73.11599	1.022416	0.602514	1.696916	0.089713	0.161269	k__Bacteria	p__Firmicu	c__Clostrid
LBCK01000	105.0793	1.464854	0.893789	1.638926	0.101229	0.17983	k__Bacteria	p__Firmicu	c__Clostrid
BABG0100	74.77917	0.79585	0.494322	1.609984	0.107401	0.187259	k__Bacteria	p__Firmicu	c__Clostrid
HQ790128.	55.37347	-0.99234	0.617322	-1.6075	0.107946	0.187259	k__Bacteria	p__Bacterc	c__Bacterc
JQ799167.1	155.1547	-1.21841	0.760501	-1.60211	0.109131	0.187259	k__Bacteria	p__Firmicu	c__Clostrid
FLKG0100(	154.5571	0.758395	0.485174	1.563142	0.118019	0.200235	k__Bacteria	p__Firmicu	c__Clostrid
CDYK0103	155.3242	-1.86253	1.197076	-1.5559	0.119733	0.200885	k__Bacteria	p__Firmicu	c__Clostrid
AB506207.	324.8443	-0.85553	0.559696	-1.52856	0.126373	0.209696	k__Bacteria	p__Firmicu	c__Clostrid
EF403478.1	317.0481	2.195856	1.442439	1.522321	0.127929	0.20997	k__Bacteria	p__Bacterc	c__Bacterc
CDYK0100	112.0835	-2.08483	1.390186	-1.49968	0.133698	0.21477	k__Bacteria	p__Bacterc	c__Bacterc

DQ905930.	630.5943	0.568155	0.378298	1.50187	0.133131	0.21477	k__Bacteri	p__Firmicu	c__Clostrid
AB506357.	270.3169	-0.96024	0.643464	-1.4923	0.135621	0.215565	k__Bacteri	p__Firmicu	c__Clostrid
JGZF01000	178.7941	1.036014	0.749289	1.382662	0.166769	0.262313	k__Bacteri	p__Actinob	c__Actinob
FPLO01005	395.8119	2.06636	1.543229	1.338984	0.180576	0.281102	k__Bacteri	p__Bacterc	c__Bacterc
AZJF01000	27.04391	-0.8346	0.657473	-1.26941	0.204295	0.313901	k__Bacteri	p__Firmicu	c__Clostrid
CBXK0100(	1698.64	0.522975	0.413356	1.265191	0.205803	0.313901	k__Bacteri	p__Firmicu	c__Clostrid
HQ776945.	309.6334	-1.39275	1.116188	-1.24778	0.212113	0.317119	k__Bacteri	p__Bacterc	c__Bacterc
AB969374.	193.4251	-1.15083	0.922261	-1.24784	0.21209	0.317119	k__Bacteri	p__Firmicu	c__Clostrid
DQ905868.	42.03015	1.770716	1.433402	1.235324	0.21671	0.320816	k__Bacteri	p__Firmicu	c__Clostrid
DQ057476.	67.06115	0.570707	0.476292	1.198228	0.230828	0.338398	k__Bacteri	p__Firmicu	c__Clostrid
LT622246.2	26.62287	0.635892	0.542462	1.172234	0.241103	0.347574	k__Bacteri	p__Bacterc	c__Bacterc
AP009256.	534.6593	0.61662	0.526678	1.170772	0.24169	0.347574	k__Bacteri	p__Actinob	c__Actinob
BAAU0100(	111.9371	0.726344	0.636438	1.141264	0.25376	0.361488	k__Bacteri	p__Firmicu	c__Clostrid
CEAG01045	72.77174	1.187258	1.055191	1.125159	0.260522	0.367652	k__Bacteri	p__Firmicu	c__Clostrid
DQ238615.	89.2124	-0.55733	0.499128	-1.1166	0.264164	0.369341	k__Bacteri	p__Firmicu	c__Clostrid
AAXA0200(	94.23201	-0.40542	0.372941	-1.08709	0.276995	0.383727	k__Bacteri	p__Firmicu	c__Clostrid
AB506426.	193.1283	-1.10482	1.058207	-1.04405	0.296462	0.406961	k__Bacteri	p__Firmicu	c__Clostrid
HQ763151.	87.07214	-0.78362	0.769495	-1.01835	0.308511	0.419687	k__Bacteri	p__Bacterc	c__Bacterc
New.Refere	46.42133	-0.58621	0.583999	-1.00379	0.31548	0.425335	k__Bacteri	p__Firmicu	c__Bacilli
EF399991.2	236.006	1.376322	1.382908	0.995237	0.319621	0.427104	k__Bacteri	p__Bacterc	c__Bacterc
CDZS0101(	39.85539	-0.42864	0.444673	-0.96394	0.335077	0.443777	k__Bacteri	p__Firmicu	c__Clostrid
FPLO01007	97.9948	-1.53953	1.606735	-0.95817	0.337976	0.443777	k__Bacteri	p__Proteol	c__Betapro
BBDW010(	185.8575	0.468541	0.505299	0.927255	0.353794	0.460542	k__Bacteri	p__Firmicu	c__Clostrid
FPLO01004	99.55994	0.381672	0.466428	0.818289	0.413192	0.52764	k__Bacteri	p__Firmicu	c__Clostrid
CEAB01039	109.4284	0.429941	0.521894	0.823808	0.410048	0.52764	k__Bacteri	p__Proteol	c__Deltapr
S83624.1.1	6.807043	-1.38959	1.707766	-0.81369	0.415822	0.52764	k__Bacteri	p__Actinob	c__Actinob
BABD0100(	60.12611	-1.66479	2.102578	-0.79179	0.428485	0.539177	k__Bacteri	p__Bacterc	c__Bacterc
CYYA0100(	50.90841	0.393231	0.512843	0.766768	0.44322	0.548575	k__Bacteri	p__Firmicu	c__Clostrid
JX645558.1	894.6321	-0.41804	0.543333	-0.7694	0.441658	0.548575	k__Bacteri	p__Firmicu	c__Clostrid
KF842645.1	100.1658	1.012426	1.556541	0.650433	0.515413	0.628578	k__Bacteri	p__Bacterc	c__Bacterc
FPLO01004	25.05837	0.35528	0.547225	0.64924	0.516183	0.628578	k__Bacteri	p__Firmicu	c__Clostrid
CP009057.4	357.0034	-0.47342	0.781891	-0.60549	0.544856	0.640737	k__Bacteri	p__Bacterc	c__Bacterc
DQ800758.	117.0219	1.280238	2.137665	0.598896	0.549243	0.640737	k__Bacteri	p__Firmicu	c__Erysipe
ADLT0100(	151.1779	0.85225	1.37479	0.619913	0.535315	0.640737	k__Bacteri	p__Firmicu	c__Clostrid
EU531992.	2.071287	-1.78991	2.956565	-0.6054	0.544912	0.640737	k__Bacteri	p__Firmicu	c__Clostrid
DQ238611.	38.03607	-0.40012	0.667522	-0.59941	0.548901	0.640737	k__Bacteri	p__Firmicu	c__Clostrid
AB506246.	0.163341	-1.77251	2.977394	-0.59532	0.551628	0.640737	k__Bacteri	p__Firmicu	c__Clostrid
CDYJ01026	55.32326	-0.38716	0.66405	-0.58304	0.55987	0.645346	k__Bacteri	p__Proteol	c__Betapro
FMER0100(	65.21089	-0.22039	0.389135	-0.56636	0.571146	0.648444	k__Bacteri	p__Firmicu	c__Clostrid
DQ799428.	10.19877	-0.91274	1.609935	-0.56694	0.570755	0.648444	k__Bacteri	p__Verruc	c__Verrucc
KP150938.1	351.5232	0.274904	0.522201	0.526434	0.598587	0.674527	k__Bacteri	p__Firmicu	c__Clostrid
AB506177.	417.3782	0.177622	0.342473	0.518645	0.604008	0.675594	k__Bacteri	p__Firmicu	c__Clostrid
AB034123.	1003.062	-0.15747	0.319223	-0.49328	0.621814	0.690396	k__Bacteri	p__Firmicu	c__Clostrid
GQ159576.	43.83451	0.706959	1.566956	0.451167	0.651869	0.718483	k__Bacteri	p__Bacterc	c__Bacterc
CYGL01005	724.7811	0.180231	0.406814	0.443029	0.657744	0.719706	k__Bacteri	p__Firmicu	c__Clostrid
New.Refere	0.14228	1.143706	2.97326	0.384664	0.700486	0.76096	k__Bacteri	p__Bacterc	c__Bacterc
HQ767308.	55.48741	-0.26074	0.77635	-0.33585	0.736982	0.794888	k__Bacteri	p__Firmicu	c__Clostrid

BABD0100(	354.604	-0.11966	0.45013	-0.26583	0.790373	0.846427	k__Bacteri	p__Firmicu	c__Clostrid
BAAX0100(	2175.572	0.299758	1.168668	0.256496	0.797568	0.848118	k__Bacteri	p__Bacterc	c__Bacterc
AQHY0100(	419.2227	0.225005	0.91173	0.246789	0.805071	0.85011	k__Bacteri	p__Bacterc	c__Bacterc
FNMR0100	0.06342	-0.7114	2.979827	-0.23874	0.811308	0.850747	k__Bacteri	p__Bacterc	c__Bacterc
FJ680037.1	0.08028	0.677821	2.9756	0.227793	0.819807	0.85373	k__Bacteri	p__Bacterc	c__Bacterc
ADMB010(	0.084497	-0.52037	2.979101	-0.17467	0.861336	0.890833	k__Bacteri	p__Firmicu	c__Clostrid
CP009057.:	167.7264	-0.04796	0.486964	-0.09848	0.921548	0.946624	k__Bacteri	p__Bacterc	c__Bacterc
FPLO01001	126.059	0.081236	1.265636	0.064186	0.948822	0.948822	k__Bacteri	p__Firmicu	c__Erysipe
FPLO01002	20.9863	-0.10147	1.326131	-0.07651	0.939011	0.948822	k__Bacteri	p__Firmicu	c__Clostrid
FMFL0100(	210.2815	-0.05677	0.669952	-0.08474	0.93247	0.948822	k__Bacteri	p__Firmicu	c__Clostrid
CDYT01032	319.6599	-0.04898	0.728082	-0.06727	0.946368	0.948822	k__Bacteri	p__Firmicu	c__Clostrid

Order	Family	Genus	Species
o__Bacterc	f__Rikenell	g__	s__
o__Clostric	f__Rumino	g__Ruminc	s__bromii
o__Bacterc	f__Rikenell	g__	s__
o__Clostric	f__Lachnos	g__Coproc	s__
o__Methar	f__Methan	g__Methar	s__
o__Enterol	f__Enterob	g__Escheri	s__coli
o__Clostric	f__Christer	g__	s__
o__Bacterc	f__[Barnes	g__	s__
o__Clostric	f__Rumino	g__Ruminc	NA
o__Clostric	f__Christer	g__	s__
o__Bifidob	f__Bifidoba	g__Bifidob	NA
o__Clostric	f__Lachnos	g__Rosebu	NA
o__Clostric	f__Rumino	g__Faecalil	s__prausnitzii
o__Bacterc	f__Rikenell	g__	s__
o__Clostric	f__Rumino	g__	s__
o__Clostric	f__	g__	s__
o__Bacterc	f__Rikenell	g__	s__
o__Clostric	f__Rumino	g__Ruminc	s__
o__Bacterc	f__Bactero	g__Bacterc	s__ovatus
o__Clostric	f__Lachnos	g__Coproc	s__
o__Clostric	f__	g__	s__
o__Bacterc	f__Rikenell	g__	s__
o__Bacterc	f__Rikenell	g__	s__
o__Bacterc	f__Bactero	g__Bacterc	s__caccae
o__Clostric	f__	g__	s__
o__Bacterc	f__Porphyr	g__Paraba	s__
o__Clostric	f__Rumino	g__Oscillos	s__
o__Verruc	f__Verruco	g__Akkerm	s__muciniphila
o__RF39	f__	g__	s__
o__Bacterc	f__Rikenell	g__	s__
o__Clostric	NA	NA	NA
o__Clostric	f__Lachnos	g__Blautia	s__
o__Bacterc	f__Porphyr	g__Paraba	s__
o__Clostric	f__Lachnos	g__	s__
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Clostric	f__Rumino	g__	s__
o__Bacterc	f__Bactero	g__Bacterc	s__eggerthii
o__Clostric	f__Rumino	NA	NA
o__Clostric	f__Rumino	g__	s__
o__Bacterc	f__Bactero	g__Bacterc	s__uniformis
o__Clostric	f__Rumino	NA	NA
o__Clostric	f__Lachnos	NA	NA
o__Clostric	f__Rumino	NA	NA
o__Clostric	f__Lachnos	g__[Rumin	s__torques
o__Bacterc	f__Porphyr	g__Paraba	s__distasonis
o__Clostric	f__Clostrid	g__SMB53	s__

o__Clostric	f__	g__	s__
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Clostric	f__Veillone	g__Dialiste	s__
o__Clostric	f__Rumino	g__Ruminc	s__bromii
o__Clostric	f__Lachnos	g__Rosebu	s__
o__Clostric	f__Lachnos	g__	s__
o__Bacterc	f__Bactero	g__Bacterc	s__fragilis
o__Clostric	f__Lachnos	g__Coproc	s__eutactus
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Clostric	f__Lachnos	g__	s__
o__Bacterc	f__Bactero	g__Bacterc	s__
o__Corioba	f__Corioba	g__Collinse	s__aerofaciens
o__Clostric	f__Rumino	g__Faecalil	s__prausnitzii
o__Clostric	NA	NA	NA
o__Clostric	f__Lachnos	g__Rosebu	s__
o__Clostric	f__	g__	s__
o__Clostric	f__Lachnos	g__Blautia	s__
o__Bacterc	f__Bactero	g__Bacterc	s__
o__Erysipe	f__Erysipel	g__Catenib	s__
o__Clostric	f__Rumino	g__Oscillos	s__
o__Erysipe	f__Erysipel	g__	s__
o__Clostric	f__Rumino	g__Ruminc	s__
o__Clostric	f__Rumino	g__Ruminc	s__
o__Lactoba	f__Strepto	g__Strepto	s__
o__Bacterc	f__Prevote	g__Prevote	s__stercorea
o__Bacterc	f__Bactero	g__Bacterc	s__ovatus
o__Bacterc	f__[Odorib	g__Odorib	s__
o__Clostric	f__Lachnos	g__Blautia	s__
o__Clostric	f__Rumino	g__Ruminc	s__
o__Clostric	f__Lachnos	g__Blautia	s__producta
o__Clostric	f__Rumino	g__Oscillos	s__
o__Clostric	f__Lachnos	g__Coproc	s__
o__Enterob	f__Enterob	g__Citroba	s__
o__Clostric	f__Lachnos	g__Lachno	s__
o__Clostric	f__Lachnos	g__Blautia	s__obeum
o__Clostric	f__Lachnos	NA	NA
o__Clostric	f__Lachnos	NA	NA
o__Clostric	f__Rumino	g__Ruminc	s__callidus
o__Clostric	f__Lachnos	NA	NA
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Clostric	f__Rumino	NA	NA
o__Clostric	f__Lachnos	g__Dorea	s__
o__Clostric	f__Lachnos	g__Coproc	s__
o__Clostric	f__Clostrid	g__SMB53	s__
o__Bacterc	f__Bactero	g__Bacterc	s__plebeius
o__Bacterc	f__[Paraprc	g__Parapre	s__

o__Clostric	f__Lachnos	g__Coproc	s__
o__Clostric	f__Clostrid	g__Clostric	NA
o__Bifidob	f__Bifidoba	g__Bifidob	s__
o__Bacterc	f__Prevote	g__Prevote	s__copri
o__Clostric	f__Lachnos	g__[Rumin	s__gnavus
o__Clostric	f__Rumino	g__Faecalil	s__prausnitzii
o__Bacterc	f__[Barnes	g__	s__
o__Clostric	f__Rumino	NA	NA
o__Clostric	f__Lachnos	g__Coproc	s__eutactus
o__Clostric	f__Rumino	g__Faecalil	s__prausnitzii
o__Bacterc	f__Bactero	g__Bacterc	s__ovatus
o__Bifidob	f__Bifidoba	g__Bifidob	s__adolescentis
o__Clostric	f__Lachnos	g__Lachno	s__
o__Clostric	f__Veillone	g__Phasco	s__
o__Clostric	f__Lachnos	g__Blautia	s__
o__Clostric	f__Lachnos	g__Dorea	s__formicigenerans
o__Clostric	f__Rumino	NA	NA
o__Bacterc	f__Porphyr	g__Paraba	s__
o__Turicib	f__Turiciba	g__Turicib	s__
o__Bacterc	f__Prevote	g__Prevote	s__copri
o__Clostric	f__Lachnos	NA	NA
o__Burkho	f__Alcalige	g__Suttere	s__
o__Clostric	f__Lachnos	g__[Rumin	s__
o__Clostric	f__Lachnos	g__Coproc	s__catus
o__Desulfc	f__Desulfo	g__Bilophil	s__
o__Bifidob	f__Bifidoba	g__Bifidob	NA
o__Bacterc	f__Bactero	g__Bacterc	s__
o__Clostric	f__Lachnos	NA	NA
o__Clostric	f__Rumino	g__Faecalil	s__prausnitzii
o__Bacterc	f__[Parapr	g__Parapre	s__
o__Clostric	f__Lachnos	g__Rosebu	s__
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Erysipe	f__Erysipel	g__[Eubact	s__biforme
o__Clostric	f__Veillone	g__Dialiste	s__
o__Clostric	f__Veillone	g__Megasp	s__
o__Clostric	f__Clostrid	g__	s__
o__Clostric	f__Rumino	g__Ruminc	s__
o__Burkho	f__Alcalige	g__Suttere	s__
o__Clostric	f__Clostrid	g__Clostric	s__
o__Verruc	f__Verruco	g__Akkerm	s__muciniphila
o__Clostric	f__Clostrid	g__SMB53	s__
o__Clostric	f__Lachnos	g__[Rumin	s__gnavus
o__Clostric	f__Lachnos	g__Rosebu	NA
o__Bacterc	f__Prevote	g__Prevote	s__copri
o__Clostric	f__Rumino	g__Faecalil	s__prausnitzii
o__Bacterc	f__Prevote	g__Prevote	s__copri
o__Clostric	f__Lachnos	NA	NA

o__Clostric	f__Rumino	g__Faecalil	s__prausnitzii
o__Bacterc	f__Prevote	g__Prevote	s__copri
o__Bacterc	f__Bactero	g__Bacterc	s__
o__Bacterc	f__[Parapr	g__[Prevot	s__
o__Bacterc	f__Prevote	g__Prevote	s__copri
o__Clostric	f__Veillone	g__Megam	s__
o__Bacterc	f__Bactero	g__Bacterc	s__
o__Erysipe	f__Erysipel	g__[Eubact	s__biforme
o__Clostric	f__Rumino	g__Ruminc	NA
o__Clostric	f__Rumino	g__Ruminc	NA
o__Clostric	f__Rumino	NA	NA

Supplementary Table S2. DeSeq2 output comparing HLA-B27 negative male and female TwinsUK participants. Negative log2fold values indicate OTUs more abundant in male subjects, while positive values indicate OTUs more common in female subjects.

	baseMean	log2FoldCh	lfcSE	stat	pvalue	padj	Kingdom	Phylum	Class
FPLP01006	9.844222	23.15441	2.103962	11.00515	3.61E-28	5.49E-26	k__Bacteri	p__Firmicu	c__Erysipe
CDZG0104	1018.28	5.235373	1.025404	5.105671	3.30E-07	2.51E-05	k__Bacteri	p__Firmicu	c__Clostrid
AB905821.	394.3706	5.291064	1.060038	4.991388	5.99E-07	3.04E-05	k__Archae	p__Euryarc	c__Methar
LMUA0100	143.1523	2.471849	0.558476	4.426061	9.60E-06	0.000365	k__Bacteri	p__Firmicu	c__Clostrid
JQ799167.	324.5707	2.868117	0.662526	4.329064	1.50E-05	0.000455	k__Bacteri	p__Firmicu	c__Clostrid
DQ799428.	144.3942	8.362701	1.961683	4.263023	2.02E-05	0.000511	k__Bacteri	p__Verruc	c__Verrucc
ABVO0100	148.0518	3.268826	0.77734	4.205142	2.61E-05	0.000567	k__Bacteri	p__Bacterc	c__Bacterc
AB559603.	9.332083	6.44399	1.668794	3.861464	0.000113	0.001904	k__Bacteri	p__Firmicu	c__Clostrid
AB506426.	200.7318	3.528844	0.911261	3.872487	0.000108	0.001904	k__Bacteri	p__Firmicu	c__Clostrid
FPLO01005	365.8721	3.348854	0.905842	3.696952	0.000218	0.003317	k__Bacteri	p__Firmicu	c__Clostrid
AM277561	9.21753	7.475255	2.051606	3.643611	0.000269	0.003715	k__Bacteri	p__Teneric	c__Mollicu
AM237928	19.03652	-6.97469	1.955933	-3.56591	0.000363	0.004593	k__Bacteri	p__Bacterc	c__Bacterc
EF403478.	18.09254	4.711292	1.355858	3.474768	0.000511	0.005978	k__Bacteri	p__Bacterc	c__Bacterc
BBDW010	171.5851	1.640132	0.491366	3.337899	0.000844	0.009165	k__Bacteri	p__Firmicu	c__Clostrid
GQ897824.	23.84461	7.341155	2.253727	3.257339	0.001125	0.010276	k__Bacteri	p__Teneric	c__Mollicu
CEAB0103	111.1851	1.595857	0.490856	3.251173	0.001149	0.010276	k__Bacteri	p__Proteol	c__Deltapr
AB627692.	261.4084	2.438944	0.749733	3.253085	0.001142	0.010276	k__Bacteri	p__Firmicu	c__Clostrid
CAEG0100	538.0551	1.538757	0.478409	3.216406	0.001298	0.010961	k__Bacteri	p__Bacterc	c__Bacterc
DQ905930.	356.5675	1.267851	0.400654	3.16445	0.001554	0.01243	k__Bacteri	p__Firmicu	c__Clostrid
DQ799548.	237.3435	1.726107	0.550082	3.13791	0.001702	0.012932	k__Bacteri	p__Bacterc	c__Bacterc
AB559621.	79.29428	2.070881	0.675124	3.067409	0.002159	0.015629	k__Bacteri	p__Actinob	c__Corioba
AB034123.	1102.138	-1.06638	0.354906	-3.00468	0.002659	0.018369	k__Bacteri	p__Firmicu	c__Clostrid
LN907745.	392.4465	1.651493	0.553041	2.986204	0.002825	0.018667	k__Bacteri	p__Bacterc	c__Bacterc
AAXA0200	63.43536	1.071895	0.368689	2.907312	0.003645	0.023088	k__Bacteri	p__Firmicu	c__Clostrid
CCPS0100	1539.722	2.253647	0.783501	2.87638	0.004023	0.024458	k__Bacteri	p__Proteol	c__Gamma
HQ763129.	384.9153	2.999025	1.052266	2.850064	0.004371	0.025554	k__Bacteri	p__Bacterc	c__Bacterc
AB821664.	161.8827	2.689578	0.952385	2.824044	0.004742	0.026697	k__Bacteri	p__Firmicu	c__Clostrid
CDYX0100	199.672	2.202598	0.793621	2.775378	0.005514	0.029932	k__Bacteri	p__Bacterc	c__Bacterc
AB506356.	112.8183	2.869308	1.066823	2.689582	0.007154	0.037498	k__Bacteri	p__Firmicu	c__Clostrid
DQ905838.	169.831	-2.82384	1.054372	-2.67822	0.007401	0.0375	k__Bacteri	p__Firmicu	c__Clostrid
AB969374.	257.3419	2.376645	0.891526	2.665818	0.00768	0.037657	k__Bacteri	p__Firmicu	c__Clostrid
AQHY0100	185.116	-2.67381	1.009919	-2.64755	0.008108	0.038512	k__Bacteri	p__Bacterc	c__Bacterc
AB506357.	269.6991	1.874054	0.717026	2.613648	0.008958	0.041262	k__Bacteri	p__Firmicu	c__Clostrid
ADLT0100	5.98516	2.300939	0.884237	2.602174	0.009263	0.041413	k__Bacteri	p__Firmicu	c__Clostrid
FMHB0100	61.01293	3.463641	1.377778	2.513934	0.011939	0.051851	k__Bacteri	p__Firmicu	c__Clostrid
CDYY01027	12.84363	6.102278	2.478007	2.462574	0.013794	0.058004	k__Bacteri	p__Teneric	c__Mollicu
LK021123.	338.681	1.161901	0.478928	2.426048	0.015264	0.058004	k__Bacteri	p__Firmicu	c__Erysipe
AP009256.	600.875	1.526564	0.62493	2.442777	0.014575	0.058004	k__Bacteri	p__Actinob	c__Actinob
FMER0100	94.01973	-1.00174	0.411495	-2.4344	0.014916	0.058004	k__Bacteri	p__Firmicu	c__Clostrid
New.Refer	210.8526	1.320101	0.541501	2.437855	0.014775	0.058004	k__Bacteri	p__Bacterc	c__Bacterc
CDYX0100	142.646	1.505246	0.646041	2.329953	0.019809	0.073437	k__Bacteri	p__Firmicu	c__Clostrid
CDTY01027	105.0203	1.004469	0.436888	2.299147	0.021497	0.077797	k__Bacteri	p__Bacterc	c__Bacterc
DQ905283.	423.3688	2.976559	1.306353	2.278526	0.022695	0.078402	k__Bacteri	p__Firmicu	c__Clostrid
BABD0100	22.59576	2.952799	1.293662	2.282513	0.022459	0.078402	k__Bacteri	p__Bacterc	c__Bacterc
CZAE0100	294.416	1.136081	0.501994	2.263139	0.023627	0.079807	k__Bacteri	p__Bacterc	c__Bacterc
FPLO01004	70.38776	0.894164	0.399842	2.236297	0.025332	0.083707	k__Bacteri	p__Firmicu	c__Clostrid

CAHA0100(	288.5605	1.416613	0.636738	2.224796	0.026095	0.084392	k__Bacteri	p__Bacterc	c__Bacterc
DQ800758.	3.942799	4.901197	2.310439	2.121327	0.033894	0.103111	k__Bacteri	p__Firmicu	c__Erysipe
CCIZ01000(	464.19	1.162665	0.545406	2.131742	0.033028	0.103111	k__Bacteri	p__Bacterc	c__Bacterc
AF224288.1	38.0062	-1.48526	0.700251	-2.12104	0.033918	0.103111	k__Bacteri	p__Proteol	c__Gamma
DQ905882.	86.64125	-1.04939	0.504201	-2.0813	0.037407	0.111486	k__Bacteri	p__Firmicu	c__Clostrid
ADKO0100	305.1318	1.151411	0.561598	2.05024	0.040341	0.11792	k__Bacteri	p__Bacterc	c__Bacterc
FPLO01002	313.0794	2.423111	1.198281	2.022155	0.04316	0.12378	k__Bacteri	p__Firmicu	c__Clostrid
DQ905947.	5027.06	0.796049	0.398573	1.997247	0.045798	0.128914	k__Bacteri	p__Bacterc	c__Bacterc
JX645558.1	882.3603	0.816319	0.413274	1.975251	0.04824	0.133317	k__Bacteri	p__Firmicu	c__Clostrid
AB506151.	223.946	1.749878	0.894298	1.956706	0.050382	0.136751	k__Bacteri	p__Firmicu	c__Clostrid
CDZI01021	128.6197	3.517816	1.861041	1.890241	0.058726	0.156602	k__Bacteri	p__Teneric	c__Mollicu
CDYS0102(	1.154268	3.119815	1.666814	1.871723	0.061245	0.160504	k__Bacteri	p__Bacterc	c__Bacterc
HQ778543.	107.3881	-0.76292	0.412598	-1.84907	0.064448	0.162863	k__Bacteri	p__Firmicu	c__Clostrid
AY858424.	148.7154	1.366917	0.742506	1.840951	0.065629	0.162863	k__Bacteri	p__Firmicu	c__Clostrid
FPLO01002	128.3483	2.200025	1.198594	1.835505	0.066431	0.162863	k__Bacteri	p__Firmicu	c__Clostrid
DQ905926.	1603.124	0.719404	0.388967	1.849524	0.064382	0.162863	k__Bacteri	p__Bacterc	c__Bacterc
FPLO01004	212.5265	0.576312	0.319193	1.805528	0.070992	0.171283	k__Bacteri	p__Firmicu	c__Clostrid
HQ790128.	45.50499	0.88618	0.503379	1.760461	0.07833	0.186033	k__Bacteri	p__Bacterc	c__Bacterc
ADLF0100(	319.0975	1.189536	0.710349	1.674581	0.094017	0.219854	k__Bacteri	p__Bacterc	c__Bacterc
CEAG0104!	125.475	1.87247	1.140844	1.641303	0.100735	0.228532	k__Bacteri	p__Firmicu	c__Clostrid
BAAY0100(	17.1433	-1.48079	0.900295	-1.64479	0.100014	0.228532	k__Bacteri	p__Firmicu	c__Clostrid
HK240365.	1906.2	1.304431	0.800233	1.630063	0.103088	0.230054	k__Bacteri	p__Verruc(	c__Verrucc
CBXK0100(	1147.207	-0.5251	0.324802	-1.61669	0.105946	0.230054	k__Bacteri	p__Firmicu	c__Clostrid
BABG0100:	154.9479	1.269349	0.784524	1.617986	0.105666	0.230054	k__Bacteri	p__Bacterc	c__Bacterc
AGZP0100(	53.82129	1.218156	0.768449	1.585214	0.112918	0.24044	k__Bacteri	p__Bacterc	c__Bacterc
KF842645.1	53.50508	-2.51334	1.589781	-1.58094	0.113893	0.24044	k__Bacteri	p__Bacterc	c__Bacterc
AB506372.	265.1494	-1.08055	0.688359	-1.56975	0.116473	0.242519	k__Bacteri	p__Firmicu	c__Clostrid
AB506408.	101.7046	0.695123	0.446797	1.555789	0.119758	0.24599	k__Bacteri	p__Firmicu	c__Clostrid
DQ905337.	107.6397	1.076556	0.704735	1.527605	0.126611	0.256598	k__Bacteri	p__Firmicu	c__Clostrid
FPLO01007	41.13376	-1.86454	1.231431	-1.51412	0.129995	0.25999	k__Bacteri	p__Proteol	c__Betaprc
CP007044.	7.402956	2.701545	1.823787	1.481284	0.138531	0.273464	k__Bacteri	p__Proteol	c__Gamma
FLKG01000	119.6856	-0.53946	0.398565	-1.35351	0.175893	0.342766	k__Bacteri	p__Firmicu	c__Clostrid
DQ904727.	38.39775	0.745862	0.60508	1.232668	0.2177	0.418866	k__Bacteri	p__Firmicu	c__Clostrid
CDYJ01026	110.114	0.791914	0.676077	1.171336	0.241464	0.458781	k__Bacteri	p__Proteol	c__Betaprc
AYSG0100(	43.98408	0.559312	0.493003	1.134501	0.256585	0.481492	k__Bacteri	p__Firmicu	c__Bacilli
CDYK0104(	920.1728	0.696032	0.635211	1.09575	0.273188	0.506398	k__Bacteri	p__Bacterc	c__Bacterc
DQ057476.	74.13728	-0.50471	0.467856	-1.07876	0.280693	0.514041	k__Bacteri	p__Firmicu	c__Clostrid
BAJK01000	52.41166	-1.5925	1.49247	-1.06702	0.285963	0.517456	k__Bacteri	p__Bacterc	c__Bacterc
HQ801120.	121.7182	-0.55574	0.541504	-1.02629	0.304755	0.542182	k__Bacteri	p__Firmicu	c__Clostrid
AB821837.	228.8493	0.705116	0.689909	1.022042	0.306761	0.542182	k__Bacteri	p__Firmicu	c__Clostrid
AB627729.	55.7413	-0.61385	0.614194	-0.99944	0.31758	0.554852	k__Bacteri	p__Firmicu	c__Clostrid
KF842128.1	4.296736	-1.4844	1.588373	-0.93454	0.350026	0.566009	k__Bacteri	p__Verruc(	c__Verrucc
AB494794.	321.9066	0.471402	0.493039	0.956115	0.339014	0.566009	k__Bacteri	p__Firmicu	c__Clostrid
AAQL0101:	352.5548	0.366129	0.375852	0.974129	0.329992	0.566009	k__Bacteri	p__Firmicu	c__Clostrid
FPLO01004	71.24111	-0.43956	0.465824	-0.94361	0.34537	0.566009	k__Bacteri	p__Firmicu	c__Clostrid
CDZA01042	608.0002	1.831555	1.968747	0.930315	0.352208	0.566009	k__Bacteri	p__Firmicu	c__Clostrid
CDYU0105(	205.4207	0.991078	1.078442	0.918991	0.3581	0.566009	k__Bacteri	p__Teneric	c__Mollicu

HQ776945.	341.1526	0.680355	0.745125	0.913075	0.361203	0.566009	k__Bacteri	p__Bacterc	c__Bacterc
FPLO01005	12.66073	1.258782	1.360418	0.92529	0.354815	0.566009	k__Bacteri	p__Bacterc	c__Bacterc
FP929051.2	1141.548	-0.63949	0.676591	-0.94517	0.344574	0.566009	k__Bacteri	p__Firmicu	c__Clostrid
CP009057.1	234.9176	-0.45801	0.484531	-0.94525	0.344529	0.566009	k__Bacteri	p__Bacterc	c__Bacterc
AB746647.	101.865	1.086692	1.21984	0.890849	0.37301	0.573248	k__Bacteri	p__Firmicu	c__Clostrid
CDYK01002	51.10727	1.106943	1.243495	0.890187	0.373366	0.573248	k__Bacteri	p__Bacterc	c__Bacterc
CDZT01028	111.6098	0.57287	0.662849	0.864254	0.387448	0.588921	k__Bacteri	p__Bacterc	c__Bacterc
CBXK0100(	2015.489	0.499463	0.595517	0.838705	0.401635	0.604441	k__Bacteri	p__Firmicu	c__Clostrid
KF842892.1	978.4553	0.539292	0.704411	0.765593	0.443918	0.641106	k__Bacteri	p__Firmicu	c__Clostrid
ATCF0100(	108.4897	0.669572	0.868683	0.770789	0.440832	0.641106	k__Bacteri	p__Proteol	c__Betaprc
CYGL01005	562.7199	-0.22317	0.293534	-0.76028	0.447087	0.641106	k__Bacteri	p__Firmicu	c__Clostrid
FMFL0100(	151.8931	0.470888	0.616735	0.763517	0.445155	0.641106	k__Bacteri	p__Firmicu	c__Clostrid
HQ810970.	44.713	0.370414	0.484264	0.764901	0.44433	0.641106	k__Bacteri	p__Bacterc	c__Bacterc
FMEB0100(	25.92752	-0.46781	0.64416	-0.72624	0.467693	0.646267	k__Bacteri	p__Firmicu	c__Clostrid
AAVP0200(	45.95027	0.433042	0.588879	0.735366	0.462116	0.646267	k__Bacteri	p__Firmicu	c__Clostrid
CDYK0103:	165.1474	0.858191	1.175142	0.730287	0.465215	0.646267	k__Bacteri	p__Firmicu	c__Clostrid
CDZA01062	289.8739	0.656696	0.885325	0.741757	0.458235	0.646267	k__Bacteri	p__Firmicu	c__Clostrid
AB506127.	385.7307	-0.19476	0.28151	-0.69183	0.489045	0.669683	k__Bacteri	p__Firmicu	c__Clostrid
AB506138.	229.4587	0.225308	0.333537	0.675511	0.499351	0.671687	k__Bacteri	p__Firmicu	c__Clostrid
CEAH0102:	266.1919	0.609131	0.893076	0.682059	0.495201	0.671687	k__Bacteri	p__Firmicu	c__Clostrid
CEAX0102(	12.38218	-0.88592	1.325075	-0.66858	0.503765	0.671687	k__Bacteri	p__Firmicu	c__Clostrid
DQ905868.	89.17122	-0.71518	1.114546	-0.64168	0.521081	0.688734	k__Bacteri	p__Firmicu	c__Clostrid
AB506207.	256.1516	0.37663	0.608491	0.618958	0.535944	0.702271	k__Bacteri	p__Firmicu	c__Clostrid
KP150938.1	253.256	0.368735	0.616508	0.598103	0.549771	0.714233	k__Bacteri	p__Firmicu	c__Clostrid
CP001104.4	223.4143	0.313028	0.575293	0.544119	0.586359	0.75531	k__Bacteri	p__Firmicu	c__Clostrid
DQ238615.	70.79575	0.24575	0.464052	0.529576	0.596406	0.761796	k__Bacteri	p__Firmicu	c__Clostrid
DQ809162.	522.5963	0.35504	0.698091	0.508587	0.611042	0.768971	k__Bacteri	p__Bacterc	c__Bacterc
KF625183.1	2.205463	0.719072	1.418235	0.507019	0.612141	0.768971	k__Bacteri	p__Proteol	c__Gamma
HQ793000.	110.9432	0.679377	1.360376	0.499404	0.617495	0.769338	k__Bacteri	p__Bacterc	c__Bacterc
FPLO01001	24.96483	0.630289	1.285819	0.490185	0.624003	0.770268	k__Bacteri	p__Firmicu	c__Erysipe
DQ456272.	59.70408	0.239999	0.495852	0.484013	0.628376	0.770268	k__Bacteri	p__Bacterc	c__Bacterc
DQ905423.	114.8152	-0.45742	1.044361	-0.43799	0.661392	0.804252	k__Bacteri	p__Firmicu	c__Clostrid
CDYQ0103-	50.63892	-0.3441	0.826046	-0.41656	0.677002	0.816701	k__Bacteri	p__Firmicu	c__Clostrid
CDTW0103	0.37891	1.139333	2.788724	0.40855	0.68287	0.817293	k__Bacteri	p__Bacterc	c__Bacterc
CP009057.4	309.5073	-0.33858	0.958212	-0.35334	0.723832	0.859551	k__Bacteri	p__Bacterc	c__Bacterc
AB506177.	296.9259	0.13892	0.417997	0.332346	0.739628	0.8715	k__Bacteri	p__Firmicu	c__Clostrid
BABD0100(	2368.727	0.13622	0.44833	0.303839	0.76125	0.890077	k__Bacteri	p__Bacterc	c__Bacterc
DQ238611.	111.5205	-0.20255	0.705036	-0.28729	0.773893	0.897953	k__Bacteri	p__Firmicu	c__Clostrid
BAAU0100(	53.84347	-0.14343	0.600444	-0.23887	0.811205	0.925536	k__Bacteri	p__Firmicu	c__Clostrid
LBCK01000	82.05047	-0.19342	0.830915	-0.23278	0.815933	0.925536	k__Bacteri	p__Firmicu	c__Clostrid
CDYT01032	336.1662	0.132254	0.536976	0.246294	0.805455	0.925536	k__Bacteri	p__Firmicu	c__Clostrid
DQ777883.	60.6783	0.065471	0.339596	0.192791	0.847122	0.953797	k__Bacteri	p__Firmicu	c__Clostrid
HQ748692.	0.01795	0.572901	3.103958	0.184571	0.853565	0.953985	k__Bacteri	p__Firmicu	c__Clostrid
EU531992.	0.010137	0.502706	3.104015	0.161953	0.871342	0.95974	k__Bacteri	p__Firmicu	c__Clostrid
AM265443	0.005356	0.502706	3.104015	0.161953	0.871342	0.95974	k__Bacteri	p__Bacterc	c__Bacterc
AB506146.	67.83639	-0.0805	0.57937	-0.13894	0.8895	0.97269	k__Bacteri	p__Firmicu	c__Clostrid
JGZF01000	52.16967	0.11076	0.850577	0.130217	0.896395	0.973229	k__Bacteri	p__Actinob	c__Actinob

CYYV0100(	320.0227	0.043346	0.376791	0.115039	0.908414	0.977447	k__Bacteri	p__Firmicu	c__Clostrid
CDYS0104(	33.93264	-0.20834	1.910073	-0.10908	0.913142	0.977447	k__Bacteri	p__Teneric	c__Mollicu
HQ763151.	58.56761	0.05927	0.728074	0.081406	0.935119	0.98707	k__Bacteri	p__Bacterc	c__Bacterc
ABCA0300(	378.7556	0.059699	0.704015	0.084797	0.932422	0.98707	k__Bacteri	p__Firmicu	c__Clostrid
FPLO0100(	132.3999	0.006173	0.410651	0.015032	0.988007	0.989003	k__Bacteri	p__Firmicu	c__Clostrid
CDYX0100(	143.1761	0.017157	0.598245	0.02868	0.97712	0.989003	k__Bacteri	p__Firmicu	c__Clostrid
DQ905872.	1187.074	0.019999	0.847667	0.023593	0.981177	0.989003	k__Bacteri	p__Firmicu	c__Clostrid
CDYN0101(	194.7277	0.05058	0.761157	0.066452	0.947018	0.989003	k__Bacteri	p__Bacterc	c__Bacterc
BAAX0100(	108.5467	0.052659	0.953707	0.055215	0.955967	0.989003	k__Bacteri	p__Bacterc	c__Bacterc
FNMR0100	0.079817	-0.10414	3.101581	-0.03358	0.973215	0.989003	k__Bacteri	p__Bacterc	c__Bacterc
CDTY0100(	1278.339	0.00782	0.567404	0.013783	0.989003	0.989003	k__Bacteri	p__Bacterc	c__Bacterc
BABD0100(	462.3429	0.010772	0.474734	0.022691	0.981896	0.989003	k__Bacteri	p__Firmicu	c__Clostrid

Order	Family	Genus	Species
o__Erysipe	f__Erysipel	g__Catenib	s__
o__Clostric	f__	g__	s__
o__Methar	f__Methan	g__Methar	s__
o__Clostric	f__Rumino	NA	NA
o__Clostric	f__Rumino	NA	NA
o__Verruc	f__Verruco	g__Akkerm	s__muciniphila
o__Bacterc	f__Bactero	g__Bacterc	s__eggerthii
o__Clostric	f__Rumino	g__	s__
o__Clostric	f__Rumino	NA	NA
o__Clostric	f__Christer	g__	s__
o__RF39	f__	g__	s__
o__Bacterc	f__	g__	s__
o__Bacterc	f__Bactero	g__Bacterc	s__plebeius
o__Clostric	f__Lachnos	g__[Rumin	s__
o__RF39	f__	g__	s__
o__Desulfc	f__Desulfo	g__Bilophil	s__
o__Clostric	f__Rumino	g__	s__
o__Bacterc	f__Rikenell	g__	s__
o__Clostric	f__Lachnos	g__Coproc	s__
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Coriobz	f__Corioba	g__Collinse	s__aerofaciens
o__Clostric	f__Lachnos	g__Rosebu	NA
o__Bacterc	f__Porphyr	g__Paraba	s__distasonis
o__Clostric	f__Lachnos	g__Dorea	s__formicigenerans
o__Enterol	f__Enterob	g__Escheri	s__coli
o__Bacterc	f__Rikenell	g__	s__
o__Clostric	NA	NA	NA
o__Bacterc	f__Rikenell	g__	s__
o__Clostric	f__Rumino	g__	s__
o__Clostric	f__Rumino	g__Rumino	s__bromii
o__Clostric	f__Rumino	NA	NA
o__Bacterc	f__Bactero	g__Bacterc	s__
o__Clostric	f__Clostrid	g__Clostric	NA
o__Clostric	f__Veillone	g__Dialiste	s__
o__Clostric	f__Rumino	g__Rumino	s__
o__RF39	f__	g__	s__
o__Erysipe	f__Erysipel	g__	s__
o__Bifidob	f__Bifidoba	g__Bifidob	s__adolescentis
o__Clostric	f__Clostrid	g__Clostric	s__
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Clostric	f__Lachnos	g__	s__
o__Bacterc	f__[Odorib	g__Odoriba	s__
o__Clostric	f__	g__	s__
o__Bacterc	f__Bactero	g__Bacterc	s__
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Clostric	f__Lachnos	g__Coproc	s__catus

o__Bacterc	f__Rikenell	g__	s__
o__Erysipe	f__Erysipel	g__[Eubact	s__biforme
o__Bacterc	f__Rikenell	g__	s__
o__Pasteur	f__Pasteur	g__Haemo	s__parainfluenzae
o__Clostric	f__Lachnos	g__Rosebu	NA
o__Bacterc	f__Bactero	g__Bacterc	s__
o__Clostric	f__Rumino	g__	s__
o__Bacterc	f__Bactero	g__Bacterc	s__
o__Clostric	f__Rumino	g__Faecalil	s__prausnitzii
o__Clostric	f__Christer	g__	s__
o__RF39	f__	g__	s__
o__Bacterc	f__Rikenell	g__	s__
o__Clostric	f__Lachnos	g__Rosebu	s__
o__Clostric	f__	g__	s__
o__Clostric	f__Christer	g__	s__
o__Bacterc	f__Bactero	g__Bacterc	s__ovatus
o__Clostric	f__Lachnos	g__Blautia	s__
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Clostric	f__Veillone	g__Phasco	s__
o__Clostric	f__Rumino	g__	s__
o__Verruc	f__Verruco	g__Akkerm	s__muciniphila
o__Clostric	f__Rumino	g__Faecalil	s__prausnitzii
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Bacterc	f__Porphyr	g__Paraba	s__
o__Bacterc	f__[Parapr	g__Parapre	s__
o__Clostric	f__Lachnos	g__Coproc	s__eutactus
o__Clostric	f__	g__	s__
o__Clostric	f__	g__	s__
o__Burkho	f__Alcalige	g__Suttere	s__
o__Enterob	f__Enterob	g__Citroba	s__
o__Clostric	f__Lachnos	g__Dorea	s__
o__Clostric	f__Rumino	NA	NA
o__Burkho	f__Alcalige	g__Suttere	s__
o__Lactoba	f__Strepto	g__Strepto	s__
o__Bacterc	f__Bactero	g__Bacterc	s__caccae
o__Clostric	f__Rumino	g__Faecalil	s__prausnitzii
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Clostric	f__Lachnos	g__Rosebu	s__
o__Clostric	f__Rumino	g__Oscillos	s__
o__Clostric	f__Lachnos	g__Coproc	s__
o__Verruc	f__Verruco	g__Akkerm	s__muciniphila
o__Clostric	f__Lachnos	g__	s__
o__Clostric	f__Lachnos	g__Coproc	s__
o__Clostric	NA	NA	NA
o__Clostric	f__	g__	s__
o__RF39	f__	g__	s__

o__Bacterc	f__[Barnes	g__	s__
o__Bacterc	f__Prevote	g__Prevote	s__copri
o__Clostric	f__Rumino	g__Ruminc	s__bromii
o__Bacterc	f__Bactero	g__Bacterc	s__
o__Clostric	f__	g__	s__
o__Bacterc	f__[Parapr	g__Parapre	s__
o__Bacterc	f__Rikenell	NA	NA
o__Clostric	f__Rumino	g__Oscillos	s__
o__Clostric	f__	g__	s__
o__Burkho	f__Alcalige	g__Suttere	s__
o__Clostric	f__Rumino	g__Faecalil	s__prausnitzii
o__Clostric	f__Rumino	g__Ruminc	NA
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Clostric	f__Lachnos	g__Lachno	s__
o__Clostric	f__Lachnos	g__[Rumin	s__torques
o__Clostric	f__Lachnos	g__Coproc	s__
o__Clostric	f__Rumino	NA	NA
o__Clostric	f__Lachnos	g__Blautia	s__
o__Clostric	f__Lachnos	g__Blautia	s__
o__Clostric	f__	g__	s__
o__Clostric	f__Rumino	g__Ruminc	NA
o__Clostric	f__Lachnos	g__Coproc	s__eutactus
o__Clostric	f__Clostrid	g__SMB53	s__
o__Clostric	f__Clostrid	g__SMB53	s__
o__Clostric	f__Lachnos	g__Lachno	s__
o__Clostric	f__Lachnos	g__Blautia	s__
o__Bacterc	f__Porphyr	g__Paraba	s__
o__Enterob	f__Enterob	NA	NA
o__Bacterc	f__[Barnes	g__	s__
o__Erysipe	f__Erysipel	g__[Eubact	s__biforme
o__Bacterc	f__Bactero	g__Bacterc	s__uniformis
o__Clostric	f__	g__	s__
o__Clostric	f__Rumino	g__Ruminc	s__
o__Bacterc	f__Prevote	g__Prevote	s__
o__Bacterc	f__Bactero	g__Bacterc	NA
o__Clostric	f__Lachnos	g__[Rumin	s__gnavus
o__Bacterc	f__Bactero	g__Bacterc	s__uniformis
o__Clostric	f__Clostrid	g__	s__
o__Clostric	f__Lachnos	g__Lachno	s__
o__Clostric	f__Rumino	g__Ruminc	s__callidus
o__Clostric	f__Rumino	NA	NA
o__Clostric	f__Rumino	g__Faecalil	s__prausnitzii
o__Clostric	f__Veillone	g__Megasp	s__
o__Clostric	f__Veillone	g__Megasp	s__
o__Bacterc	f__S24-7	g__	s__
o__Clostric	f__Lachnos	NA	NA
o__Bifidob	f__Bifidoba	g__Bifidob	s__

o__Clostric	f__Lachnos	NA	NA
o__RF39	f__	g__	s__
o__Bacterc	f__Porphyr	g__Paraba	s__
o__Clostric	f__Rumino	g__Ruminc	s__
o__Clostric	f__Lachnos	g__Blautia	s__obeum
o__Clostric	f__Rumino	NA	NA
o__Clostric	f__Veillone	g__Dialiste	s__
o__Bacterc	f__[Barnes	g__	s__
o__Bacterc	f__Prevote	g__Prevote	s__copri
o__Bacterc	f__[Parapr	g__[Prevot	s__
o__Bacterc	f__Rikenell	g__	s__
o__Clostric	f__Rumino	g__Faecalil	s__prausnitzii