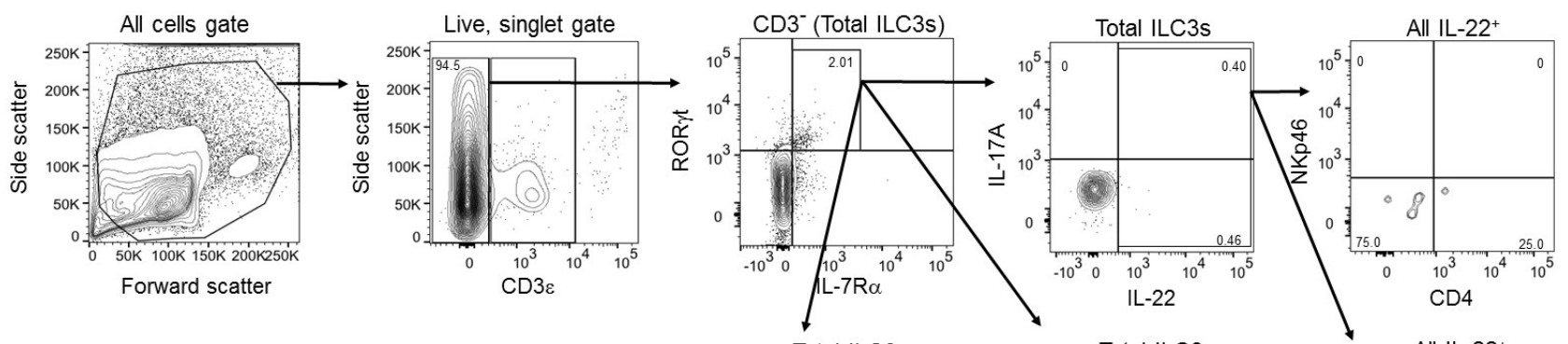


**List of Supplementary Figures:**

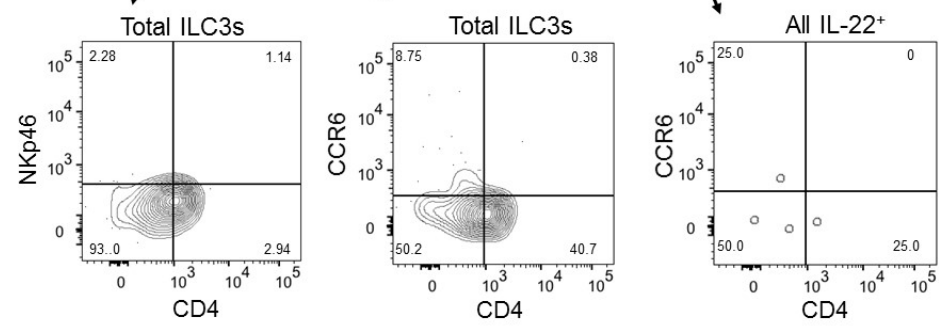
**Figure S1.** Flow cytometry gating strategy for ILC3s

**Figure S2.** Complete blood count (CBC) analysis

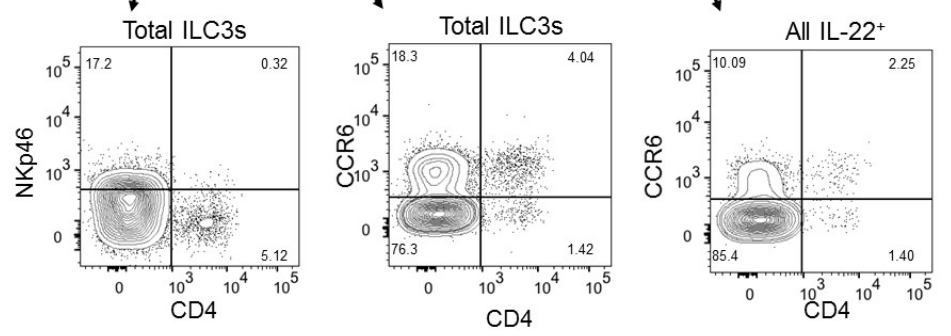
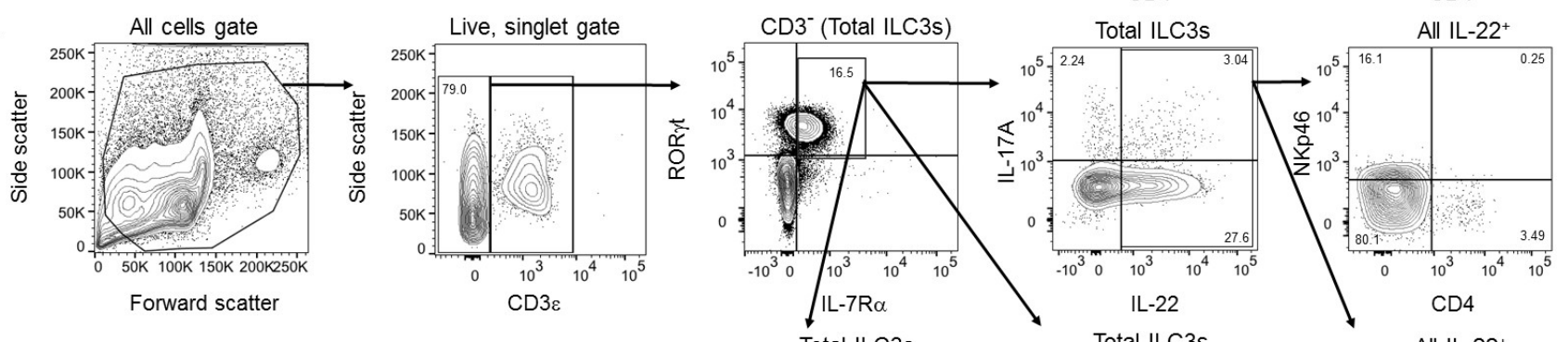
S1A.



Supplementary Figure 1

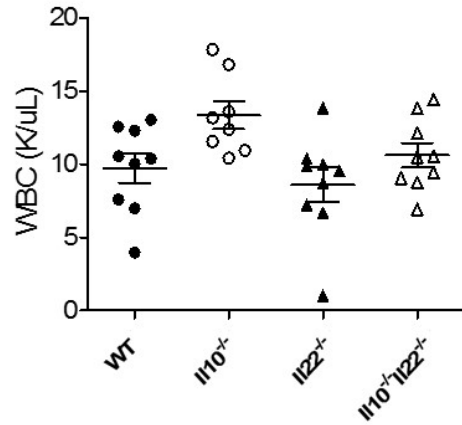


S1B.

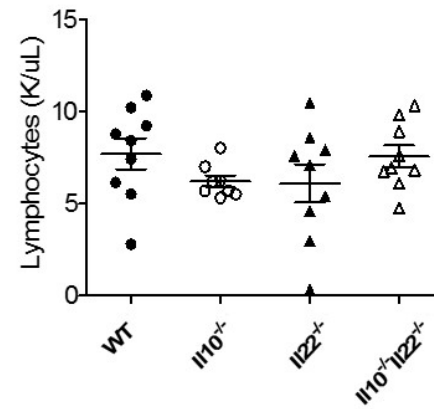


## Supplementary Figure 2

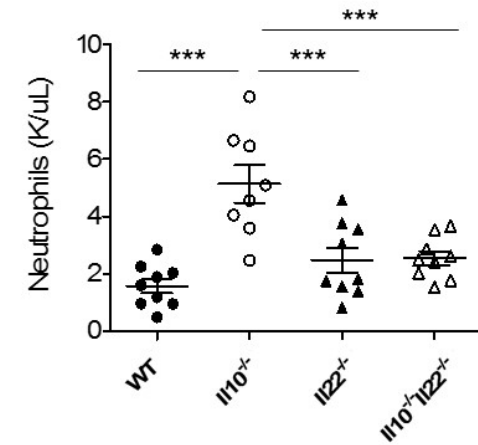
S2A.



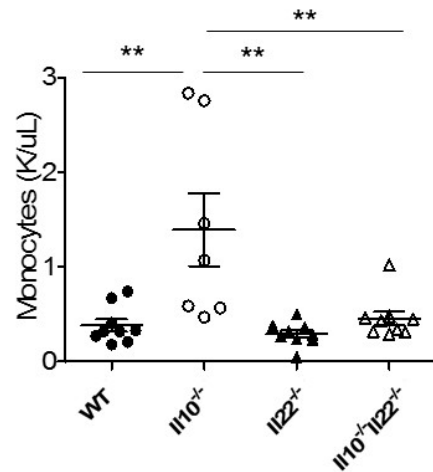
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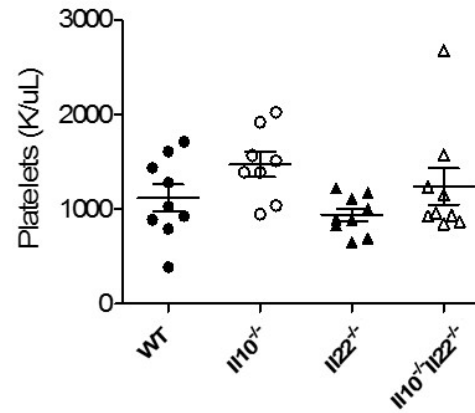
S2C.



S2D.



S2E.



**Supplementary Figure Legends:**

**Supplemental Figure S1. Flow cytometry gating strategy for ILC3s.** Representative flow cytometry plots showing gating strategy for ILC3s in sLPL from (A) WT and (B) *Il10*<sup>-/-</sup> mice. Gates were established on single, live, CD45<sup>+</sup> CD3<sup>-</sup> cells. Cells in this gate that were RORγt<sup>+</sup> IL-7Rα<sup>+</sup> were considered ILC3s (Total ILC3s). The Total ILC3s population was examined for IL-17A and IL-22 expression. A sub-gate on IL-22<sup>+</sup> ILC3s (All IL-22<sup>+</sup>) was used to determine the percentages of IL-22-producing ILC3 subsets based on NKp46 or CCR6 (+/- CD4). Also, the Total ILC3s gate was examined to determine the percentages of ILC3 subsets based on NKp46 or CCR6 (+/- CD4).

**Supplemental Figure S2: Complete blood count (CBC) analysis.** (A) WBC, (B) lymphocyte (C) monocyte (D) neutrophil and (E) platelet frequencies in peripheral blood of WT, *Il10*<sup>-/-</sup>, *Il22*<sup>-/-</sup>, and *Il10*<sup>-/-</sup> *Il22*<sup>-/-</sup> mice (n= 9-10 per group) (\*\*\*, p<0.001, \*\*, p<0.01, using the Mann-Whitney *U* test (error bars represent SD).

**List of Supplementary Tables:**

**Table S1.** Genes differentially expressed in both  $Il10^{-/-}$  and  $Il10^{-/-}Il22^{-/-}$  mice compared to WT (Group 1)

**Table S2.** Genes differentially expressed in  $Il10^{-/-}Il22^{-/-}$  mice only compared to WT (Group 2)

**Table S3.** Genes differentially expressed in  $Il10^{-/-}$  mice only compared to WT (Group 3)

**Table S4.** (a) Chao1 Statistics and (b) Shannon Statistics from fecal microbiome analysis

**Table S5.** List of significantly different taxa in fecal microbiome

**Supplementary Table 1: Genes differentially expressed in both *Il10*<sup>-/-</sup> and *Il10*<sup>-/-</sup>*Il22*<sup>-/-</sup> mice compared to WT (Group 1)**

Gene	<i>Il10</i> <sup>-/-</sup> (compared to WT)		<i>Il10</i> <sup>-/-</sup> <i>Il22</i> <sup>-/-</sup> (compared to WT)	
	p-value	Fold-difference	p-value	Fold-difference
<i>Abcb1a</i>	0.00238447	-2.9	0.00106374	-3.3
<i>Alox5</i>	0.00292459	-2.2	2.09E-05	-4.4
<i>Aoah</i>	1.02E-07	3.2	5.68E-06	2.2
<i>Aoc3</i>	0.00628964	-2.4	0.0094028	-2.3
<i>B2m</i>	2.04E-06	5.7	3.62E-06	5.2
<i>Bdkrb1</i>	0.0081094	2.6	0.00864262	2.6
<i>Bmp3</i>	0.0061224	-2.8	0.00206836	-3.4
<i>C2</i>	6.62E-07	11.6	1.82E-05	5.9
<i>C3</i>	5.03E-05	5.2	0.0106775	2.2
<i>Ccl1</i>	0.00670074	932.6	0.00871763	693.3
<i>Ccl2</i>	0.00200778	3.9	0.009145	2.9
<i>Ccl20</i>	0.00161736	3.9	0.000276811	5.5
<i>Ccl22</i>	0.00195491	8.1	0.000141201	18.3
<i>Ccl5</i>	2.04E-05	31.5	6.16E-05	21.5
<i>Ccl5</i>	0.00011631	18.2	0.000193779	15.5
<i>Ccl7</i>	0.000495421	5.5	0.0015497	4.3
<i>Ccl8</i>	4.53E-05	5.4	0.000111651	4.6
<i>Ccr1</i>	0.00493682	2.0	0.00159636	2.3
<i>Ccr5</i>	2.13E-05	7.3	3.87E-05	6.4
<i>Cd14</i>	7.41E-06	3.5	0.000524014	2.2
<i>Cd274</i>	5.28E-05	6.9	2.04E-05	8.5
<i>Cd4</i>	0.00528985	4.1	0.000902417	6.3
<i>Cd74</i>	1.47E-09	16.2	1.44E-09	16.2
<i>Chrna7</i>	0.00575245	-2.8	0.00548288	-2.8
<i>Cmtm5</i>	0.0014076	-3.8	0.00865433	-2.7
<i>Csf2</i>	0.0013231	400.9	0.000847815	576.3
<i>Csf2rb</i>	0.00793234	3.1	0.00358386	3.6
<i>Ctla4</i>	0.000165893	17.4	0.000127399	19.0
<i>Cxcl1</i>	0.000250708	17.2	0.00246616	8.3
<i>Cxcl1</i>	0.000808265	10.6	0.0050476	6.2
<i>Cxcl10</i>	0.00711367	11.6	0.00180348	20.5
<i>Cxcl3</i>	0.00219792	2905.3	0.00430579	1363.1
<i>Cxcl5</i>	0.00102204	7.4	0.0105547	4.0
<i>Cxcl9</i>	0.00155534	529.7	0.000529753	1363.6
<i>Cxcr3</i>	0.00102082	4.5	0.00823312	3.0
<i>Cybb</i>	0.00546101	2.5	0.00145411	3.1
<i>Fasl</i>	0.00163608	1305.3	0.00218593	981.4
<i>Fpr1</i>	5.11E-05	2961.2	0.000324966	654.3
<i>H2-Q10</i>	0.00186128	2.5	0.000200172	3.4

<i>Icos</i>	0.00548041	3.9	0.000307301	7.5
<i>Ifng</i>	8.58E-06	20944.0	1.25E-05	14427.2
<i>Il12b</i>	0.00129804	1004.3	0.00161049	822.2
<i>Il12rb1</i>	0.000417435	6.1	0.000538028	5.8
<i>Il12rb2</i>	0.00405627	731.5	0.00442055	670.5
<i>Il15</i>	0.000423708	-2.6	0.000807622	-2.4
<i>Il17a</i>	1.19E-05	4274.3	5.01E-06	9099.0
<i>Il18bp</i>	3.62E-08	15.7	2.14E-06	6.6
<i>Il1a</i>	0.00614955	12.7	0.00502956	13.8
<i>Il1b</i>	0.0020318	24.5	0.00348555	19.2
<i>Il1b</i>	0.002002	21.0	0.00178113	22.1
<i>Il1f9</i>	0.0020701	1090.1	0.00128751	1749.8
<i>Il2rg</i>	0.00566712	3.0	0.0052451	3.1
<i>Il7r</i>	0.001827	3.4	0.00151092	3.5
<i>Itgb2</i>	0.00153147	2.6	0.00182944	2.6
<i>Lilrb3</i>	1.89E-05	3.5	0.000369535	2.4
<i>Ltf</i>	0.000943918	24.8	0.00188895	18.6
<i>Lyn</i>	1.97E-05	2.5	4.24E-05	2.3
<i>Mefv</i>	0.00104442	4.5	0.00021368	6.2
<i>Nlrp3</i>	0.00496957	5.3	0.00401091	5.6
<i>Nod2</i>	0.00112751	3.3	0.00171035	3.1
<i>Nos2</i>	1.69E-07	186.2	3.68E-07	129.8
<i>Pglyrp1</i>	7.15E-05	3.1	0.000130999	2.9
<i>Prg2</i>	0.000127271	6.9	0.000163568	6.5
<i>S100a8</i>	2.59E-05	195.8	0.000635859	39.1
<i>S100a8</i>	1.52E-05	166.0	0.000285891	40.8
<i>S100a9</i>	0.000199177	50.4	0.000778043	27.7
<i>S1pr3</i>	0.000105757	-2.7	0.000456266	-2.3
<i>Saa3</i>	0.000355516	970.9	0.00032095	1057.1
<i>Socs1</i>	0.00154115	7.9	0.00401311	6.0
<i>Tlr11</i>	0.00697523	3.1	0.00642618	3.1
<i>Tlr13</i>	8.70E-05	2.6	0.000187492	2.4
<i>Tlr9</i>	0.0069402	2.0	0.00253182	2.3
<i>Tnf</i>	8.18E-07	21.4	2.83E-06	15.2
<i>Tnfrsf8</i>	0.000306257	27.0	8.58E-05	45.3
<i>Tnfrsf9</i>	0.00347227	6.8	0.000956495	10.0
<i>Tnfsf10</i>	2.25E-06	4.8	4.29E-06	4.3
<i>Unc13d</i>	0.00405847	2.3	0.00846253	2.1

**Supplementary Table 2: Genes differentially expressed in *Il10*<sup>-/-</sup>*Il22*<sup>-/-</sup> mice only compared to WT (Group 2)**

Gene	p-value	Fold-difference
<i>Alox5</i>	0.00479949	-3.7
<i>Bmp3</i>	0.000629089	-3.9
<i>C8g</i>	0.00138908	-2.9
<i>Cav1</i>	0.00342036	-2.3
<i>Ccl17</i>	0.000851116	7.0
<i>Cd163</i>	0.00818285	-5.5
<i>Cd180</i>	0.00735117	2.1
<i>Cd40</i>	0.00673335	3.2
<i>Cd40lg</i>	0.00908089	216.8
<i>Cebpa</i>	4.26E-08	-83.5
<i>Cebpb</i>	5.92E-07	-19914.1
<i>Cftr</i>	0.000168215	-2.1
<i>Cmtm4</i>	0.0044312	-2.0
<i>Cntnap1</i>	0.00613507	-2.4
<i>Ctfl</i>	0.00392415	-5.3
<i>Cxcl14</i>	0.00522238	2.0
<i>Cxcl16</i>	0.00186368	2.1
<i>Fpr3</i>	0.00709804	8732.9
<i>Gdf15</i>	0.00744193	-2.3
<i>Il12b</i>	0.00908872	531.3
<i>Il17d</i>	0.000267927	-2.8
<i>Il18</i>	3.79E-06	-5.6
<i>Il18rap</i>	0.00923122	55.8
<i>Il1rl2</i>	0.00559334	-2.3
<i>Kit</i>	0.00434982	-2.5
<i>P2rx1</i>	0.00328103	-4.4
<i>Ptn</i>	0.0073677	-2.4
<i>Tgfb2</i>	0.000915831	-2.0
<i>Tnfrsf11b</i>	0.00528023	3.0
<i>Tnfrsf4</i>	0.00211631	2.8
<i>Tnfsf12;Tnfsf12-tnfsf13</i>	0.0022568	-2.4
<i>Tpst1</i>	0.00142718	-2.1
<i>Xcr1</i>	0.00416754	4.8



**Supplementary Table 3: Genes differentially expressed in *Il10*<sup>-/-</sup> mice only compared to WT (Group 3)**

<b>Gene</b>	<b>p-value</b>	<b>Fold-difference</b>
<i>A2m</i>	0.00957883	718.3
<i>Adoral</i>	0.00407501	3.6
<i>Aif1</i>	3.52E-05	2.7
<i>C6</i>	0.00909242	70.2
<i>Ccl11</i>	0.00819481	2.1
<i>Ccr2</i>	4.24E-05	2.5
<i>Cfb</i>	0.00028884	2.3
<i>Cfh</i>	1.26E-05	3.7
<i>Cxcl2</i>	0.00932489	397.7
<i>Ebi3</i>	0.0081765	2.3
<i>Fam3b</i>	2.80E-05	3.0
<i>Fcer1g</i>	0.0104187	2.0
<i>Fgf23</i>	0.0102809	976.1
<i>Foxp3</i>	0.0105366	373.5
<i>Ghrl</i>	0.00764176	4.8
<i>Grem1</i>	0.00014261	2.2
<i>Il21</i>	0.00195555	1991.6
<i>Il22</i>	0.00126662	168.7
<i>Il27ra</i>	0.00687286	6.1
<i>Il3ra</i>	0.000225822	2.1
<i>Il4ra</i>	0.00182328	2.4
<i>Irf7</i>	0.000510782	2.2
<i>Jak3</i>	0.00500189	2.6
<i>Klrg1</i>	0.00639306	3.8
<i>Lbp</i>	0.000143654	4.5
<i>Ltb</i>	0.0092582	3.8
<i>Ly75</i>	1.95E-05	2.3
<i>Ly86</i>	0.000461109	2.9
<i>Muc1</i>	1.49E-06	7.0
<i>Muc4</i>	0.000305016	3.1
<i>Pla2g2e</i>	0.0082277	2.6
<i>Pla2g4c</i>	0.00461715	2.7
<i>Pxdn</i>	0.00130812	-2.0
<i>Reg3g</i>	0.000488335	4861.7
<i>Saal</i>	0.00129597	3.2
<i>Socs2</i>	0.000726173	-3.2
<i>Tfrc</i>	5.84E-05	2.8
<i>Thpo</i>	0.000263784	2.6
<i>Tlr3</i>	0.000782639	2.1
<i>Tnfrsf18</i>	0.00466065	2.2
<i>Tnfrsf1b</i>	0.00068281	3.2
<i>Twist1</i>	0.00709812	-2.6

## Supplementary Table 4: Alpha diversity statistics from fecal microbiome analysis

<b>Table 4a. Chao1 index: statistics from fecal microbiome analysis</b>				
<b>Group 1</b>	<b>Group 2</b>	<b>Group 1 mean</b>	<b>Group 2 mean</b>	<b>p-value</b>
<i>II10<sup>-/-</sup></i>	WT	474.4122	527.8155	0.102
WT	<i>II22<sup>-/-</sup></i>	527.8155	586.4659	0.03
<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	WT	566.3712	527.8155	0.192
<i>II10<sup>-/-</sup></i>	<i>II22<sup>-/-</sup></i>	474.4122	586.4659	0.006
<i>II10<sup>-/-</sup></i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	474.4122	566.3712	0.012
<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	<i>II22<sup>-/-</sup></i>	566.3712	586.4659	1
<b>Table 4b. Shannon diversity: statistics from fecal microbiome analysis</b>				
<b>Group 1</b>	<b>Group 2</b>	<b>Group 1 mean</b>	<b>Group 2 mean</b>	<b>p-value</b>
<i>II10<sup>-/-</sup></i>	WT	6.339657	6.044052	0.15
WT	<i>II22<sup>-/-</sup></i>	6.044052	6.375445	0.12
<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	WT	5.684859	6.044052	0.528
<i>II10<sup>-/-</sup></i>	<i>II22<sup>-/-</sup></i>	5.684859	6.375445	0.006
<i>II10<sup>-/-</sup></i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	5.684859	6.339657	0.018
<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	<i>II22<sup>-/-</sup></i>	6.339657	6.375445	1

Supplementary Table 5: Significantly different taxa in fecal microbiome identified by LEfSe analysis

Taxa	Strain	LDA Score (log 10)	P value
<i>Proteobacteria</i>	WT	4.276	1.50E-04
<i>Proteobacteria</i> / <i>Epsilonproteobacteria</i>	WT	4.214	1.29E-06
<i>Proteobacteria</i> / <i>Epsilonproteobacteria</i> / <i>Campylobacteriales</i>	WT	4.214	1.29E-06
<i>Proteobacteria</i> / <i>Epsilonproteobacteria</i> / <i>Campylobacteriales</i> / <i>Helicobacteraceae</i>	WT	4.214	1.29E-06
<i>Proteobacteria</i> / <i>Epsilonproteobacteria</i> / <i>Campylobacteriales</i> / <i>Helicobacteraceae</i> / <i>Helicobacter</i>	WT	4.214	1.29E-06
<i>Firmicutes</i> / <i>Clostridia</i> /	WT	3.599	1.93E-02
<i>Firmicutes</i> / <i>Clostridia</i> /	WT	3.599	1.93E-02
<i>Firmicutes</i> / <i>Clostridia</i> /	WT	3.599	1.93E-02
<i>Firmicutes</i> / <i>Bacilli</i> / <i>Bacillales</i> / <i>Staphylococcaceae</i>	WT	3.233	7.77E-04
<i>Firmicutes</i> / <i>Bacilli</i> / <i>Bacillales</i>	WT	3.227	4.45E-04
<i>Firmicutes</i> / <i>Bacilli</i> / <i>Bacillales</i> / <i>Planococcaceae</i>	WT	3.080	2.79E-02
<i>Firmicutes</i> / <i>Bacilli</i> / <i>Bacillales</i> / <i>Planococcaceae</i> / <i>Sporosarcina</i>	WT	3.038	2.79E-02
<i>Firmicutes</i> / <i>Clostridia</i> / <i>Clostridiales</i> / <i>Dehalobacteriaceae</i>	WT	2.824	2.87E-04
<i>Firmicutes</i> / <i>Clostridia</i> / <i>Clostridiales</i> / <i>Dehalobacteriaceae</i> / <i>Dehalobacterium</i>	WT	2.822	2.87E-04
<i>Firmicutes</i> / <i>Bacilli</i> / <i>Bacillales</i> / <i>Staphylococcaceae</i> /	WT	2.167	5.06E-07
<i>Bacteroidetes</i> / <i>Bacteroidia</i> / <i>Bacteroidales</i> / <i>Bacteroidaceae</i>	<i>II10</i> <sup>-/-</sup>	4.711	7.42E-06
<i>Bacteroidetes</i> / <i>Bacteroidia</i> / <i>Bacteroidales</i> / <i>Bacteroidaceae</i> /	<i>II10</i> <sup>-/-</sup>	4.482	2.75E-08
<i>Bacteroidetes</i> / <i>Bacteroidia</i> / <i>Bacteroidales</i> /	<i>II10</i> <sup>-/-</sup>	4.198	7.38E-06
<i>Bacteroidetes</i> / <i>Bacteroidia</i> / <i>Bacteroidales</i> /	<i>II10</i> <sup>-/-</sup>	4.198	7.38E-06
<i>Firmicutes</i> / <i>Erysipelotrichi</i> / <i>Erysipelotrichales</i> / <i>_Coproba</i> <i>cillaceae</i>	<i>II10</i> <sup>-/-</sup>	3.997	1.67E-07
<i>Firmicutes</i> / <i>Erysipelotrichi</i> / <i>Erysipelotrichales</i> / <i>_Coproba</i> <i>cillaceae</i> / <i>Coproba</i> <i>cillus</i>	<i>II10</i> <sup>-/-</sup>	3.827	8.65E-07
<i>Proteobacteria</i> / <i>Deltaproteobacteria</i> / <i>Desulfovibrionales</i> / <i>Desulfovibrionaceae</i> / <i>Desulfovibrio</i>	<i>II10</i> <sup>-/-</sup>	3.675	1.16E-02
<i>Firmicutes</i> / <i>Erysipelotrichi</i> / <i>Erysipelotrichales</i> / <i>_Coproba</i> <i>cillaceae</i> / <i>_</i>	<i>II10</i> <sup>-/-</sup>	3.507	4.86E-05
<i>Proteobacteria</i> / <i>Betaproteobacteria</i> / <i>Burkholderiales</i>	<i>II10</i> <sup>-/-</sup>	3.440	4.44E-06
<i>Proteobacteria</i> / <i>Betaproteobacteria</i> / <i>Burkholderiales</i> / <i>Alcaligenaceae</i>	<i>II10</i> <sup>-/-</sup>	3.440	4.44E-06
<i>Proteobacteria</i> / <i>Betaproteobacteria</i> / <i>Burkholderiales</i> / <i>Alcaligenaceae</i> / <i>Sutterella</i>	<i>II10</i> <sup>-/-</sup>	3.440	4.44E-06
<i>Proteobacteria</i> / <i>Betaproteobacteria</i>	<i>II10</i> <sup>-/-</sup>	3.440	4.57E-06
<i>Proteobacteria</i> / <i>Gammaproteobacteria</i> / <i>Pasteurellales</i> / <i>Pasteurellaceae</i> / <i>Aggregatibacter</i>	<i>II10</i> <sup>-/-</sup>	3.253	7.48E-06
<i>Proteobacteria</i> / <i>Gammaproteobacteria</i> / <i>Pasteurellales</i>	<i>II10</i> <sup>-/-</sup>	2.983	2.58E-05
<i>Proteobacteria</i> / <i>Deltaproteobacteria</i> / <i>Desulfovibrionales</i> / <i>Desulfovibrionaceae</i> / <i>Bilophila</i>	<i>II10</i> <sup>-/-</sup>	2.822	3.95E-05
<i>Proteobacteria</i> / <i>Gammaproteobacteria</i> / <i>Pasteurellales</i> / <i>Pasteurellaceae</i>	<i>II10</i> <sup>-/-</sup>	2.745	2.58E-05
<i>Firmicutes</i> / <i>Bacilli</i> / <i>Lactobacillales</i> / <i>Carnobacteriaceae</i>	<i>II10</i> <sup>-/-</sup>	2.634	2.71E-05
<i>Firmicutes</i> / <i>Bacilli</i> / <i>Lactobacillales</i> / <i>Carnobacteriaceae</i> / <i>Granulicatella</i>	<i>II10</i> <sup>-/-</sup>	2.633	2.71E-05
<i>Firmicutes</i> / <i>Bacilli</i> / <i>Lactobacillales</i> / <i>Streptococcaceae</i> / <i>Streptococcus</i>	<i>II10</i> <sup>-/-</sup>	2.379	1.19E-04
<i>Bacteroidetes</i> / <i>Bacteroidia</i> / <i>Bacteroidales</i> / <i>S24_7</i>	<i>II22</i> <sup>-/-</sup>	4.954	7.55E-03
<i>Bacteroidetes</i> / <i>Bacteroidia</i> / <i>Bacteroidales</i> / <i>S24_7</i> /	<i>II22</i> <sup>-/-</sup>	4.954	7.55E-03
<i>Firmicutes</i> / <i>Bacilli</i> / <i>Turicibacteriales</i>	<i>II22</i> <sup>-/-</sup>	3.952	2.43E-08
<i>Firmicutes</i> / <i>Bacilli</i> / <i>Turicibacteriales</i> / <i>Turicibacteraceae</i>	<i>II22</i> <sup>-/-</sup>	3.952	2.43E-08
<i>Firmicutes</i> / <i>Bacilli</i> / <i>Turicibacteriales</i> / <i>Turicibacteraceae</i> / <i>Turicibacter</i>	<i>II22</i> <sup>-/-</sup>	3.952	2.43E-08
<i>Actinobacteria</i> / <i>Actinobacteria</i> / <i>Bifidobacteriales</i>	<i>II22</i> <sup>-/-</sup>	3.756	1.38E-05
<i>Actinobacteria</i> / <i>Actinobacteria</i> / <i>Bifidobacteriales</i> / <i>Bifidobacteriaceae</i>	<i>II22</i> <sup>-/-</sup>	3.756	1.38E-05
<i>Actinobacteria</i> / <i>Actinobacteria</i> / <i>Bifidobacteriales</i> / <i>Bifidobacteriaceae</i> / <i>Bifidobacterium</i>	<i>II22</i> <sup>-/-</sup>	3.756	1.38E-05
<i>Actinobacteria</i>	<i>II22</i> <sup>-/-</sup>	3.756	7.22E-05
<i>Actinobacteria</i> / <i>Actinobacteria</i>	<i>II22</i> <sup>-/-</sup>	3.756	7.22E-05
<i>Cyanobacteria</i>	<i>II22</i> <sup>-/-</sup>	3.306	1.26E-09
<i>Cyanobacteria</i> / <i>4C0d_2</i>	<i>II22</i> <sup>-/-</sup>	3.305	1.26E-09
<i>Cyanobacteria</i> / <i>4C0d_2</i> / <i>YS2</i> /	<i>II22</i> <sup>-/-</sup>	3.305	1.26E-09
<i>Cyanobacteria</i> / <i>4C0d_2</i> / <i>YS2</i>	<i>II22</i> <sup>-/-</sup>	3.305	1.26E-09
<i>Cyanobacteria</i> / <i>4C0d_2</i> / <i>YS2</i> /	<i>II22</i> <sup>-/-</sup>	3.305	1.26E-09
<i>Firmicutes</i> / <i>Erysipelotrichi</i> / <i>Erysipelotrichales</i> / <i>Erysipelotrichaceae</i> /	<i>II22</i> <sup>-/-</sup>	2.640	1.22E-02
<i>Proteobacteria</i> / <i>Alphaproteobacteria</i>	<i>II22</i> <sup>-/-</sup>	2.066	4.66E-03
<i>Bacteroidetes</i> / <i>Bacteroidia</i> / <i>Bacteroidales</i> / <i>Bacteroidaceae</i> / <i>Bacteroides</i>	<i>II10</i> <sup>-/-</sup> / <i>II22</i> <sup>-/-</sup>	4.616	1.45E-05
<i>Bacteroidetes</i> / <i>Bacteroidia</i> / <i>Bacteroidales</i> / <i>Rikenellaceae</i>	<i>II10</i> <sup>-/-</sup> / <i>II22</i> <sup>-/-</sup>	4.237	1.53E-06

<i>Bacteroidetes/Bacteroidia/Bacteroidales/Rikenellaceae/</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	4.141	5.31E-06
<i>Bacteroidetes/Bacteroidia/Bacteroidales/Porphyromonadaceae</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	3.772	4.54E-04
<i>Bacteroidetes/Bacteroidia/Bacteroidales/Porphyromonadaceae/Parabacteroides</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	3.772	4.54E-04
<i>Bacteroidetes/Bacteroidia/Bacteroidales/Rikenellaceae/AF12</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	3.535	6.47E-08
<i>Tenericutes</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	3.261	1.25E-07
<i>Tenericutes/Mollicutes</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	3.261	1.25E-07
<i>Tenericutes/Mollicutes/Anaeroplasmatales</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	3.095	4.24E-09
<i>Tenericutes/Mollicutes/Anaeroplasmatales/Anaeroplasmataceae</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	3.093	4.24E-09
<i>Tenericutes/Mollicutes/Anaeroplasmatales/Anaeroplasmataceae/Anaeroplasma</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	3.092	4.24E-09
<i>TM7</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	2.825	2.69E-04
<i>TM7/TM7_3</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	2.825	2.69E-04
<i>TM7/TM7_3/CW040</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	2.825	2.69E-04
<i>TM7/TM7_3/CW040/F16</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	2.825	2.69E-04
<i>TM7/TM7_3/CW040/F16/</i>	<i>II10<sup>-/-</sup>II22<sup>-/-</sup></i>	2.825	2.69E-04