

**Online Supplementary table 1.** A complete list of the differentially expressed genes that achieve statistical significance by J5 score. The genes are listed by descending J5 score. The gene designation is also accompanied by the systematic name and fold induction relative to MTB alone.

Gene Designation	SystematicName	J5 Score	fold change
1 A_24_P752362	A_24_P752362	9.129	1.576
2 CXCL9	NM_002416	8.422	1.522
3 PPFIA2	NM_003625	7.255	1.436
4 IFNG	NM_000619	6.842	1.406
5 ZRF1	NM_014377	6.666	1.394
6 PPIB	NM_000942	6.592	1.389
7 SERPINB2	NM_002575	6.572	1.388
8 ENST00000240349	ENST00000240349	6.567	1.387
9 MTHFS	NM_006441	6.204	1.362
10 C5orf15	NM_020199	6.081	1.354
11 FNDC3A	NM_014923	6.073	1.353
12 PPP2R2D	NM_018461	5.965	1.346
13 UBE2D4	NM_015983	5.962	1.346
14 EXT2	NM_000401	5.943	1.345
15 CDC42EP5	NM_145057	5.94	1.345
16 FLJ32255	AK056817	5.902	1.342
17 LRRC59	NM_018509	5.901	1.342
18 PPP3CC	NM_005605	5.892	1.341
19 THC2284657	THC2284657	5.873	1.340
20 A_23_P130639	A_23_P130639	5.806	1.336
21 GBAP	NR_002188	5.78	1.334
22 FNBP4	NM_015308	5.744	1.331
23 TCL1B	NM_199206	5.741	1.331
24 CCL7	NM_006273	5.73	1.331
25 C10orf61	NM_015631	5.66	1.326
26 CCDC84	NM_198489	5.65	1.325
27 A_24_P794833	A_24_P794833	5.633	1.324
28 CSF2	NM_000758	5.623	1.323
29 SAR1B	NM_016103	5.616	1.323
30 WAPAL	NM_015045	5.604	1.322
31 A_24_P178784	A_24_P178784	5.534	1.318
32 A_24_P230248	A_24_P230248	5.527	1.317
33 OR11A1	NM_013937	5.515	1.316
34 C14orf138	NM_024558	5.482	1.314
35 THC2373524	THC2373524	5.427	1.311
36 THC2306791	THC2306791	5.406	1.309
37 ZNF281	NM_012482	5.402	1.309
38 IRAK3	NM_007199	5.375	1.307
39 VKORC1L1	NM_173517	5.359	1.306
40 GZMB	NM_004131	5.316	1.303
41 ENST00000354743	ENST00000354743	5.301	1.302
42 ZNF467	BC038972	5.297	1.302
43 A_24_P912985	A_24_P912985	5.284	1.301
44 A_23_P96017	A_23_P96017	5.273	1.301
45 A_24_P246748	A_24_P246748	5.27	1.300
46 A_32_P148047	A_32_P148047	5.263	1.300
47 MRPS15	NM_031280	5.259	1.300
48 DKFZP564J0863	NM_015459	5.251	1.299

49	A_24_P161393	A_24_P161393	5.239	1.298
50	NRBF2	NM_030759	5.228	1.298
51	CDGAP	NM_020754	5.227	1.298
52	A_24_P736617	A_24_P736617	5.223	1.297
53	IL8	NM_000584	5.195	1.296
54	THC2314600	THC2314600	5.187	1.295
55	TSPYL2	NM_022117	5.181	1.295
56	MRPS7	NM_015971	5.177	1.294
57	SKIL	NM_005414	5.15	1.293
58	ITGAE	NM_002208	5.141	1.292
59	CASKIN1	NM_020764	5.121	1.291
60	A_23_P210285	A_23_P210285	5.112	1.290
61	ENST00000361500	ENST00000361500	5.1	1.289
62	ATP5F1	NM_001688	5.086	1.289
63	COMMD9	NM_014186	5.049	1.286
64	CCL8	NM_005623	5.036	1.285
65	SLC25A24	NM_213651	5.033	1.285
66	C17orf72	BC045676	5.009	1.284
67	BU783246	BU783246	4.995	1.283
68	AF086790	AF086790	4.991	1.282
69	MANEAL	NM_152496	4.985	1.282
70	CR602702	CR602702	4.966	1.281
71	A_32_P31992	A_32_P31992	4.96	1.280
72	C1orf119	NM_020141	4.934	1.279
73	THC2450500	THC2450500	4.922	1.278
74	A_24_P24332	A_24_P24332	4.919	1.278
75	CARD15	NM_022162	4.918	1.278
76	TCEB3	NM_003198	4.901	1.277
77	UBQLN2	NM_013444	4.879	1.275
78	ARRB1	NM_004041	4.876	1.275
79	ATG3	BC002830	4.865	1.274
80	SNRPA1	NM_003090	4.859	1.274
81	ENST00000379938	ENST00000379938	4.856	1.274
82	HIST1H2BB	NM_021062	4.826	1.272
83	AL133018	AL133018	4.816	1.271
84	LSM3	NM_014463	4.776	1.269
85	SERPING1	NM_000062	4.769	1.268
86	THC2363295	THC2363295	4.745	1.267
87	AW874684	AW874684	4.74	1.266
88	ENST00000331458	ENST00000331458	4.702	1.264
89	SLC25A32	NM_030780	4.699	1.264
90	GNL2	NM_013285	4.688	1.263
91	AK001903	AK001903	4.688	1.263
92	IRX4	NM_016358	4.685	1.263
93	CD104030	CD104030	4.684	1.263
94	A_24_P93425	A_24_P93425	4.677	1.263
95	ST7OT1	NR_002330	4.677	1.263
96	TNIK	AB011123	4.649	1.261
97	WDR41	NM_018268	4.648	1.261

98 MTO1	NM_012123	4.629	1.260
99 P2RX4	NM_002560	4.625	1.259
100 SRP54	NM_003136	4.62	1.259
101 CR616772	CR616772	4.603	1.258
102 ENST00000374314	ENST00000374314	4.602	1.258
103 ACSL5	NM_203380	4.6	1.258
104 ENST00000277860	ENST00000277860	4.593	1.257
105 BIN2	NM_016293	4.585	1.257
106 ENST00000286794	ENST00000286794	4.584	1.257
107 A_24_P931583	A_24_P931583	4.578	1.256
108 ANKRD22	NM_144590	4.571	1.256
109 THC2311186	THC2311186	4.556	1.255
110 THC2243803	THC2243803	4.553	1.255
111 SUPT7L	NM_014860	4.549	1.254
112 EPSTI1	NM_033255	4.547	1.254
113 GARS	NM_002047	4.52	1.253
114 A_24_P169493	A_24_P169493	4.518	1.253
115 IGF2AS	NM_016412	4.518	1.253
116 A_24_P859124	A_24_P859124	4.509	1.252
117 KLRB1	NM_002258	4.493	1.251
118 BPGM	NM_199186	4.488	1.251
119 IL18RAP	NM_003853	4.485	1.250
120 EVI2A	NM_001003927	4.473	1.250
121 C14orf161	NM_024764	4.469	1.250
122 EMX1	NM_004097	4.466	1.249
123 NASP	NM_172164	4.46	1.249
124 LARP7	NM_016648	4.46	1.249
125 C1orf31	NM_001012985	4.458	1.249
126 ACLY	U18197	4.441	1.248
127 UBE1C	NM_003968	4.441	1.248
128 PRCC	NM_005973	4.435	1.247
129 THC2311248	THC2311248	4.432	1.247
130 PFDN2	NM_012394	4.431	1.247
131 ENST00000237763	ENST00000237763	4.417	1.246
132 SLC1A3	NM_004172	4.39	1.245
133 PPP2R5E	NM_006246	4.383	1.244
134 BG944303	BG944303	4.364	1.243
135 POU2AF1	NM_006235	4.355	1.242
136 LOC389199	NM_203423	4.354	1.242
137 BC022398	BC022398	4.351	1.242
138 A_32_P151087	A_32_P151087	4.35	1.242
139 ENST00000310344	ENST00000310344	4.337	1.241
140 CR594735	CR594735	4.333	1.241
141 ENST00000373748	ENST00000373748	4.329	1.241
142 AW901755	AW901755	4.324	1.240
143 A_24_P101480	A_24_P101480	4.323	1.240
144 PSMA2	NM_002787	4.313	1.240
145 ADSL	NM_000026	4.306	1.239
146 CCNI	NM_006835	4.298	1.239

147 HPCA	NM_002143	4.296	1.239
148 TMEM57	NM_018202	4.295	1.239
149 THC2405114	THC2405114	4.293	1.239
150 VPS33A	NM_022916	4.289	1.238
151 CCR7	NM_001838	4.284	1.238
152 PCLKC	NM_017675	4.275	1.237
153 THC2437476	THC2437476	4.267	1.237
154 FOXP1	NM_032682	4.261	1.237
155 THC2288230	THC2288230	4.258	1.236
156 GAS5	NR_002578	4.253	1.236
157 S66917	S66917	4.248	1.236
158 TM9SF3	NM_020123	4.248	1.236
159 C14orf152	NM_138344	4.246	1.236
160 TMEM128	NM_032927	4.239	1.235
161 THC2317110	THC2317110	4.238	1.235
162 BE379139	BE379139	4.234	1.235
163 ARL2BP	NM_012106	4.229	1.235
164 A_23_P254288	A_23_P254288	4.224	1.234
165 C9orf30	NM_080655	4.213	1.234
166 ADH1C	NM_000669	4.206	1.233
167 TPD52L2	NM_199360	4.204	1.233
168 A_24_P349869	A_24_P349869	4.203	1.233
169 LOC391356	NM_001013663	4.201	1.233
170 ENST00000308498	ENST00000308498	4.195	1.233
171 ABHD12	NM_015600	4.193	1.232
172 UBE3A	NM_130839	4.191	1.232
173 THC2337059	THC2337059	4.175	1.231
174 INDO	NM_002164	4.175	1.231
175 TAOK3	NM_016281	4.174	1.231
176 BC062739	BC062739	4.172	1.231
177 ZFP36L2	NM_006887	4.167	1.231
178 NKAP	NM_024528	4.158	1.230
179 VASH2	NM_024749	4.158	1.230
180 AK096566	AK096566	4.146	1.230
181 ENST00000369739	ENST00000369739	4.145	1.229
182 A_24_P32735	A_24_P32735	4.138	1.229
183 ANKZF1	NM_018089	4.135	1.229
184 THC2281165	THC2281165	4.134	1.229
185 TRIM68	NM_018073	4.13	1.229
186 AL049404	AL049404	4.127	1.228
187 A_24_P41979	A_24_P41979	4.123	1.228
188 A_24_P109614	A_24_P109614	4.122	1.228
189 MGAT4B	NM_054013	4.121	1.228
190 A_24_P417996	A_24_P417996	4.121	1.228
191 FAM72A	NM_207418	4.118	1.228
192 LOC440607	NM_001017986	4.117	1.228
193 ENST00000265986	ENST00000265986	4.117	1.228
194 PELI1	NM_020651	4.116	1.228
195 C14orf162	NM_020181	4.111	1.227

196 BF326020	BF326020	4.11	1.227
197 A_24_P238666	A_24_P238666	4.104	1.227
198 PYDC1	NM_152901	4.096	1.227
199 ENST00000338956	ENST00000338956	4.095	1.226
200 MARCH6	NM_005885	4.093	1.226
201 ENST00000380896	ENST00000380896	4.093	1.226
202 CNOT10	NM_015442	4.09	1.226
203 ENST00000236199	ENST00000236199	4.088	1.226
204 CCDC23	NM_199342	4.084	1.226
205 AMHR2	NM_020547	4.084	1.226
206 TSC1	NM_000368	4.081	1.226
207 HSPC159	NM_014181	4.076	1.225
208 THC2281350	THC2281350	4.071	1.225
209 A_24_P195327	A_24_P195327	4.07	1.225
210 KCNQ3	NM_004519	4.067	1.225
211 ASTN2	NM_198188	4.062	1.224
212 AK074562	AK074562	4.061	1.224
213 OSGEP	NM_017807	4.058	1.224
214 A_24_P15502	A_24_P15502	4.055	1.224
215 SH2B3	NM_005475	4.055	1.224
216 LOC644029	XM_933879	4.042	1.223
217 PLEKHF2	NM_024613	4.037	1.223
218 A_24_P281374	A_24_P281374	4.035	1.223
219 PLEK2	NM_016445	4.033	1.223
220 PRPF3	NM_004698	4.033	1.223
221 LOC284184	BC079831	4.03	1.222
222 ZNF579	NM_152600	4.021	1.222
223 ENST00000259969	ENST00000259969	4.011	1.221
224 LOC283680	AK095933	4.001	1.221
225 LACTB	NM_171846	4.001	1.221
226 DDI2	BC006011	-4.005	-1.221
227 SBK1	NM_001024401	-4.026	-1.222
228 KIAA1922	BC033082	-4.027	-1.222
229 TP53	NM_000546	-4.028	-1.222
230 COPS2	NM_004236	-4.03	-1.222
231 FMO1	NM_002021	-4.032	-1.223
232 ENST00000259289	ENST00000259289	-4.035	-1.223
233 PKIA	NM_006823	-4.041	-1.223
234 AF268617	AF268617	-4.047	-1.223
235 STAC3	NM_145064	-4.051	-1.224
236 OTP	NM_032109	-4.053	-1.224
237 C1QTNF9	NM_178540	-4.059	-1.224
238 C8orf22	NM_001007176	-4.063	-1.224
239 AY062331	AY062331	-4.066	-1.225
240 BC038761	BC038761	-4.084	-1.226
241 AV708150	AV708150	-4.085	-1.226
242 TSPAN18	NM_130783	-4.09	-1.226
243 OR7E104P	AK127969	-4.091	-1.226
244 PGLYRP1	NM_005091	-4.103	-1.227

245 MGC35030	BC042481	-4.105	-1.227
246 AF319957	AF319957	-4.11	-1.227
247 ATP1B2	NM_001678	-4.111	-1.227
248 DB325746	DB325746	-4.112	-1.227
249 A_32_P62137	A_32_P62137	-4.114	-1.228
250 LHFPL5	NM_182548	-4.115	-1.228
251 CYP11A1	NM_000781	-4.12	-1.228
252 THC2409919	THC2409919	-4.124	-1.228
253 KIAA1655	AB051442	-4.135	-1.229
254 THC2364223	THC2364223	-4.14	-1.229
255 AK056449	AK056449	-4.144	-1.229
256 A_24_P638608	A_24_P638608	-4.173	-1.231
257 FNDC8	NM_017559	-4.174	-1.231
258 CPN1	NM_001308	-4.181	-1.232
259 TMEM40	NM_018306	-4.192	-1.232
260 BX648831	BX648831	-4.199	-1.233
261 A_23_P30411	A_23_P30411	-4.202	-1.233
262 LOC146517	XM_928464	-4.203	-1.233
263 ENST00000324928	ENST00000324928	-4.206	-1.233
264 LDHAL6A	NM_144972	-4.207	-1.233
265 LANCL3	NM_198511	-4.22	-1.234
266 C19orf21	NM_173481	-4.225	-1.234
267 PAX1	NM_006192	-4.233	-1.235
268 ENST00000382170	ENST00000382170	-4.248	-1.236
269 TAS2R13	NM_023920	-4.253	-1.236
270 ENST00000335083	ENST00000335083	-4.261	-1.237
271 THC2306982	THC2306982	-4.278	-1.238
272 BG218865	BG218865	-4.279	-1.238
273 THC2409336	THC2409336	-4.282	-1.238
274 AL564305	AL564305	-4.291	-1.238
275 RNF151	NM_174903	-4.294	-1.239
276 MAPK12	NM_002969	-4.296	-1.239
277 APOL6	NM_030641	-4.32	-1.240
278 THC2374166	THC2374166	-4.341	-1.242
279 THC2281706	THC2281706	-4.349	-1.242
280 RP11-444E17.2	NM_182539	-4.353	-1.242
281 A_24_P735283	A_24_P735283	-4.355	-1.242
282 MGC9712	NM_152689	-4.372	-1.243
283 THC2409757	THC2409757	-4.374	-1.244
284 AK023038	AK023038	-4.374	-1.244
285 FUT8	NM_178154	-4.374	-1.244
286 BQ933774	BQ933774	-4.395	-1.245
287 A_23_P170427	A_23_P170427	-4.397	-1.245
288 GJB2	NM_004004	-4.413	-1.246
289 ISG20L1	NM_022767	-4.413	-1.246
290 GPR37	NM_005302	-4.42	-1.246
291 AF085960	AF085960	-4.434	-1.247
292 D31828	D31828	-4.457	-1.249
293 NOVA1	NM_002515	-4.466	-1.249

294 C21orf56	NM_032261	-4.474	-1.250
295 AK095012	AK095012	-4.477	-1.250
296 WDR40B	NM_178470	-4.481	-1.250
297 ENST00000327652	ENST00000327652	-4.495	-1.251
298 BACE2	NM_012105	-4.502	-1.252
299 FAM47A	NM_203408	-4.509	-1.252
300 A_32_P222106	A_32_P222106	-4.52	-1.253
301 CIDEB	NM_014430	-4.526	-1.253
302 FLJ21767	AK025420	-4.528	-1.253
303 C8orf31	NM_173687	-4.528	-1.253
304 GIPC3	BX648927	-4.532	-1.253
305 PCTK3	NM_212503	-4.536	-1.254
306 A_24_P917457	A_24_P917457	-4.538	-1.254
307 AI971459	AI971459	-4.586	-1.257
308 AK024371	AK024371	-4.587	-1.257
309 THC2430775	THC2430775	-4.589	-1.257
310 A_24_P872838	A_24_P872838	-4.614	-1.259
311 AK026131	AK026131	-4.62	-1.259
312 SH2D4A	NM_022071	-4.63	-1.260
313 THC2369885	THC2369885	-4.63	-1.260
314 SLC45A2	NM_016180	-4.661	-1.261
315 GFI1B	NM_004188	-4.666	-1.262
316 FMOD	NM_002023	-4.669	-1.262
317 AY358510	AY358510	-4.679	-1.263
318 ENST00000336999	ENST00000336999	-4.686	-1.263
319 THC2441863	THC2441863	-4.71	-1.265
320 C19orf47	NM_178830	-4.717	-1.265
321 ENST00000301719	ENST00000301719	-4.732	-1.266
322 ENST00000383048	ENST00000383048	-4.738	-1.266
323 ACTRT2	NM_080431	-4.747	-1.267
324 CCNC	NM_005190	-4.753	-1.267
325 LOC389332	BC031291	-4.769	-1.268
326 DNASE1L2	NM_001374	-4.778	-1.269
327 A_24_P560431	A_24_P560431	-4.788	-1.270
328 THC2426166	THC2426166	-4.795	-1.270
329 AW612629	AW612629	-4.8	-1.270
330 LAMC3	NM_006059	-4.805	-1.271
331 THC2405620	THC2405620	-4.818	-1.271
332 BC040048	BC040048	-4.819	-1.271
333 A_23_P403836	A_23_P403836	-4.821	-1.272
334 PLEKHA2	AK098787	-4.823	-1.272
335 AF318342	AF318342	-4.83	-1.272
336 AK094796	AK094796	-4.855	-1.274
337 VN1R5	NM_173858	-4.856	-1.274
338 SLC6A9	NM_201649	-4.86	-1.274
339 AF130109	AF130109	-4.886	-1.276
340 RP3-355C18.2	XM_104657	-4.89	-1.276
341 A_32_P223747	A_32_P223747	-4.892	-1.276
342 AK024241	AK024241	-4.927	-1.278

343 CD34	NM_001773	-4.937	-1.279
344 IGSF9	NM_020789	-4.948	-1.280
345 THC2422220	THC2422220	-4.956	-1.280
346 C2orf39	NM_145038	-4.991	-1.282
347 OR5P2	NM_153444	-5.004	-1.283
348 AK093639	AK093639	-5.014	-1.284
349 AI762428	AI762428	-5.026	-1.285
350 LMAN1L	NM_021819	-5.046	-1.286
351 LHX5	NM_022363	-5.061	-1.287
352 C20orf71	NM_178466	-5.075	-1.288
353 BX091769	BX091769	-5.089	-1.289
354 YTHDF3	NM_152758	-5.111	-1.290
355 PRMT8	NM_019854	-5.122	-1.291
356 TMEM148	NM_153238	-5.145	-1.292
357 A_24_P494658	A_24_P494658	-5.146	-1.292
358 PMS2L5	NM_174930	-5.203	-1.296
359 THC2407115	THC2407115	-5.203	-1.296
360 BU631174	BU631174	-5.209	-1.296
361 BC031973	BC031973	-5.212	-1.297
362 ENST00000339489	ENST00000339489	-5.258	-1.300
363 FLJ25404	BC101436	-5.306	-1.303
364 OXCT2	NM_022120	-5.342	-1.305
365 LOC91431	NM_138698	-5.344	-1.305
366 LMX1A	NM_177398	-5.345	-1.305
367 ENST00000328398	ENST00000328398	-5.389	-1.308
368 A_24_P281447	A_24_P281447	-5.425	-1.310
369 LCE2D	NM_178430	-5.438	-1.311
370 A_24_P705167	A_24_P705167	-5.469	-1.313
371 AK092577	AK092577	-5.489	-1.315
372 TIP39	NM_178449	-5.562	-1.319
373 UPK3A	NM_006953	-5.563	-1.320
374 HBZ	NM_005332	-5.574	-1.320
375 CTRB1	NM_001906	-5.601	-1.322
376 A_24_P745960	A_24_P745960	-5.622	-1.323
377 A_24_P169807	A_24_P169807	-5.653	-1.325
378 CHODL	NM_024944	-5.66	-1.326
379 OR6Y1	NM_001005189	-5.667	-1.326
380 TJP3	NM_014428	-5.688	-1.328
381 ENST00000341154	ENST00000341154	-5.703	-1.329
382 AA076992	AA076992	-5.732	-1.331
383 THC2379988	THC2379988	-5.932	-1.344
384 PDCD8	NM_004208	-5.985	-1.348
385 BP290435	BP290435	-6.058	-1.352
386 GLUL	NM_002065	-6.146	-1.358
387 OR5T2	NM_001004746	-6.219	-1.363
388 CR992331	CR992331	-6.241	-1.365
389 CX3CL1	NM_002996	-6.507	-1.383
390 CR616003	CR616003	-6.521	-1.384
391 IL4	NM_000589	-6.609	-1.390



392 ECEL1	NM_004826	-6.614	-1.390
393 RAD9A	NM_004584	-6.652	-1.393
394 CXorf1	NM_004709	-6.707	-1.397
395 DAB2IP	NM_138709	-6.841	-1.406
396 BI828537	BI828537	-6.932	-1.413
397 AW952039	AW952039	-7.265	-1.436
398 THC2370211	THC2370211	-7.312	-1.440
399 A_24_P538119	A_24_P538119	-7.758	-1.472
400 PTTG3	NR_002734	-7.778	-1.474
401 THC2403119	THC2403119	-7.998	-1.490
402 DKFZP564J102	NM_015398	-8.262	-1.509
403 SLC18A1	NM_003053	-8.83	-1.553
404 A_24_P638453	A_24_P638453	-8.856	-1.555
405 ENST00000337335	ENST00000337335	-9.221	-1.583
406 SDCBP2	NM_080489	-9.321	-1.591
407 CRB2	NM_173689	-9.755	-1.626
408 PTHR2	NM_005048	-9.827	-1.632
409 CD40LG	NM_000074	-9.852	-1.634
410 HSPA12B	NM_052970	-9.853	-1.634
411 SHRM	NM_020859	-9.905	-1.638
412 TAF4	NM_003185	-10.462	-1.684
413 THC2342473	THC2342473	-10.56	-1.693
414 PRY2	NM_001002758	-11.341	-1.760