

2B. Differentially expressed genes following IFN alpha treatment of 2F8 cells. Positive effect size means up

Gene symbol	mean_intensity	mean_counts	total_counts	effect_size	tagwise_dispersion
<i>Oas1g</i>	-13.39490502	4186	16742	8.902773044	0.043084316
<i>Tgtp2</i>	-11.5575389	23703	94813	8.685684979	0.047192593
<i>Tgtp1</i>	-11.51842336	23984	95937	8.630384667	0.047423905
<i>Oas1a</i>	-12.78360245	5805	23219	8.333618702	0.043353433
<i>Ifi44</i>	-11.36892598	23503	94012	8.300770766	0.152274267
<i>Oas2</i>	-12.62423366	5644	22577	7.959209111	0.042285857
<i>ligp1</i>	-10.73538387	31757	127028	7.630141599	0.041193732
<i>Oas3</i>	-12.8035002	3654	14617	7.446525339	0.047822074
<i>Ifi44l</i>	-14.14129032	944	3777	7.410002438	0.055666131
<i>Zbp1</i>	-11.85567767	7600	30400	7.011414446	0.056157114
<i>Oasl2</i>	-11.39958507	11653	46612	6.958518749	0.039720921
<i>Rsad2</i>	-12.61546959	3340	13358	6.878124956	0.054953087
<i>Usp18</i>	-11.07813988	15443	61773	6.877009391	0.040119748
<i>Gbp3</i>	-9.898880737	40780	163119	6.460058498	0.060262005
<i>Gbp7</i>	-11.89482177	5365	21460	6.393551202	0.043089831
<i>Ddx60</i>	-13.06262924	1664	6657	6.389270775	0.043919738
<i>Oasl1</i>	-12.74403865	2224	8896	6.333304767	0.040773336
<i>Slfn2</i>	-13.45655828	1070	4281	6.294559876	0.048887075
<i>Ifit3</i>	-9.082977582	84822	339287	6.291354983	0.056450545
<i>Ifit3b</i>	-9.456465359	57679	230717	6.266834112	0.052444032
<i>Gm4951</i>	-12.54020369	2599	10397	6.230149059	0.044320314
<i>Ccrl2</i>	-14.04252555	579	2317	6.221237605	0.073793182
<i>Ifit1</i>	-9.69577524	44151	176605	6.210235946	0.047403738
<i>Rtp4</i>	-12.30890622	3230	12919	6.20723619	0.040511569
<i>Pydc4</i>	-14.19940806	487	1948	6.195154671	0.069350807
<i>Irf7</i>	-9.280318608	63901	255603	6.117653977	0.044297574
<i>Mx2</i>	-12.63262862	2181	8724	6.070617004	0.045848363
<i>Olfr56</i>	-10.01683024	28872	115488	5.995089141	0.087703386
<i>Oas1c</i>	-14.50774535	321	1283	5.983945199	0.070925799
<i>Tap1</i>	-12.70283308	1864	7456	5.892467765	0.042404575
<i>Mpeg1</i>	-12.7189357	1814	7254	5.872685051	0.041586586
<i>Phf11b</i>	-11.65319546	4942	19768	5.742402416	0.117630987
<i>Igtp</i>	-10.84080666	11110	44442	5.737122814	0.100289769
<i>Batf2</i>	-15.04244406	156	622	5.607694963	0.083288111
<i>Phf11d</i>	-10.96889688	8973	35891	5.563326269	0.103952596
<i>Cxcl10</i>	-12.63988167	1624	6494	5.471177311	0.239791662
<i>Slfn8</i>	-11.09781698	7495	29979	5.461994097	0.357138925
<i>Psmb8</i>	-15.11545521	134	536	5.461672666	0.081820316
<i>Oas1b</i>	-12.74298298	1418	5674	5.427493623	0.056550486
<i>Ms4a4d</i>	-14.44201368	258	1033	5.422261357	0.068812882
<i>Phf11a</i>	-12.13964073	2418	9673	5.277736715	0.073716084
<i>2010002M12Rik</i>	-11.99630509	2783	11133	5.276725936	0.040269546
<i>Gbp10</i>	-11.31316925	5189	20756	5.1519923	0.077162959
<i>Gbp2</i>	-10.91887516	7633	30533	5.130950653	0.088925537

<b>Bst2</b>	-10.36111643	12948	51794	5.082788805	0.035329701
<b>Ifih1</b>	-13.02804398	882	3530	5.041375265	0.049310793
<b>Irgm2</b>	-10.47529192	11319	45277	5.03598749	0.045279213
<b>Pydc3</b>	-13.39505037	601	2405	5.010662039	0.0525701
<b>Isg15</b>	-9.944146532	18391	73563	4.948179798	0.076597236
<b>Psemb9</b>	-15.39098631	78	314	4.910610446	0.117232599
<b>Gm6904</b>	-12.87844945	960	3838	4.905246251	0.057570666
<b>Ifi47</b>	-10.30510425	11937	47747	4.794373199	0.292319097
<b>Gm14446</b>	-11.63419598	3358	13432	4.756097398	0.165600978
<b>Trim34b</b>	-13.8210433	346	1384	4.754659619	0.076990982
<b>Hsh2d</b>	-15.48637234	64	255	4.719838403	0.095607928
<b>Gbp5</b>	-13.48944905	468	1870	4.68833329	0.058473957
<b>Trim34a</b>	-12.60984219	1108	4433	4.655787538	0.071888098
<b>Uba7</b>	-11.71810071	2696	10784	4.650491647	0.078025649
<b>Apol10b</b>	-13.51902208	403	1613	4.420432403	0.344233874
<b>Phf11c</b>	-12.02049177	1736	6945	4.368151314	0.073264343
<b>Slfn1</b>	-15.73426238	39	157	4.224058323	0.121465904
<b>Trim12a</b>	-11.98332557	1648	6594	4.18424883	0.081558523
<b>C4b</b>	-13.83478441	254	1016	4.131193965	0.077787553
<b>Gm4841</b>	-11.93478715	1662	6650	4.096355109	0.047965333
<b>Dhx58</b>	-11.63759562	2219	8877	4.081001352	0.120841535
<b>F830016B08Rik</b>	-13.72192325	276	1104	4.074349315	0.096436614
<b>Parp14</b>	-10.67653253	5749	22995	4.069167584	0.035585689
<b>Meiob</b>	-15.4941918	44	178	4.011052293	0.095974035
<b>Abi3bp</b>	-12.34386292	1045	4180	3.987351094	0.045549789
<b>Lgals3bp</b>	-9.63493463	15600	62400	3.980652473	0.055700201
<b>Misp</b>	-14.28259122	145	579	3.908524805	0.082534524
<b>Trim21</b>	-10.84993444	4386	17544	3.867163679	0.072576285
<b>Trim12c</b>	-10.67753124	5205	20819	3.858318968	0.120806461
<b>Ube2l6</b>	-10.46426796	6383	25531	3.842651353	0.144135495
<b>Ly6e</b>	-7.566849468	114615	458459	3.818844495	0.201357364
<b>Tap2</b>	-13.06565555	466	1863	3.808699341	0.058951317
<b>Gbp2b</b>	-14.59186249	101	404	3.800807896	0.0971911
<b>Herc6</b>	-10.10209416	8978	35911	3.799719272	0.10827779
<b>Irgm1</b>	-9.669193414	13723	54892	3.784703458	0.063155673
<b>Stat1</b>	-7.899422979	79194	316775	3.74484867	0.073238176
<b>Parp9</b>	-10.85525495	4110	16438	3.740329269	0.124403186
<b>Gbp4</b>	-10.6684955	4859	19437	3.67717001	0.339420201
<b>Nlrc5</b>	-12.42344325	830	3320	3.677116678	0.130754541
<b>Apod</b>	-9.431390987	16154	64617	3.627003094	0.058132068
<b>Hap1</b>	-13.15134122	387	1548	3.606075456	0.079265549
<b>Stat2</b>	-9.541313173	14041	56163	3.564405285	0.05635428
<b>Sp100</b>	-10.15613815	7544	30178	3.551782554	0.047948299
<b>Trim30a</b>	-9.707563504	11770	47081	3.542020678	0.053845528
<b>Dtx3l</b>	-10.56626392	4810	19240	3.465710516	0.058539017
<b>Ifit2</b>	-8.653085375	32877	131509	3.458984057	0.0823714
<b>Apol9a</b>	-8.958069512	22838	91351	3.354172977	0.08361389

<b>Gm4070</b>	-7.070918798	150884	603538	3.348941242	0.201577364
<b>Gvin1</b>	-7.070918798	150884	603538	3.348941242	0.201577364
<b>Tuba8</b>	-15.6644902	26	106	3.264990388	0.139600178
<b>Gbp9</b>	-10.07227569	7168	28670	3.252493179	0.165465832
<b>Sp110</b>	-10.64973441	3995	15981	3.249326793	0.036334227
<b>Il18bp</b>	-13.30587544	280	1118	3.246021468	0.060191924
<b>Samd9l</b>	-8.945983624	21680	86718	3.221901384	0.051489895
<b>Apol9b</b>	-8.945830094	21606	86423	3.208396999	0.074858337
<b>Trim30d</b>	-9.826825416	8767	35068	3.16810932	0.064365864
<b>Tmem229b</b>	-13.30605769	266	1065	3.122043007	0.245140386
<b>Cyp26a1</b>	-15.14761821	40	162	3.094761561	0.089245141
<b>Tlr3</b>	-10.55471308	4077	16307	3.087937277	0.054573557
<b>Gbp11</b>	-11.95572331	1006	4025	3.08245539	0.080478974
<b>Irf5</b>	-12.70798292	474	1896	3.069498375	0.196248346
<b>Ddx58</b>	-9.738865521	9106	36424	3.059703995	0.071465737
<b>Slfn9</b>	-10.30470459	5195	20780	3.038544288	0.321671139
<b>Oas1e</b>	-16.3476759	11	44	2.997231269	0.100797624
<b>AI607873</b>	-9.803095719	8238	32951	2.971475925	0.121307958
<b>H2-T22</b>	-8.016100038	47806	191222	2.915747175	0.066277365
<b>Ifi27l2a</b>	-10.33742312	4645	18579	2.902136086	0.033676522
<b>Psmb10</b>	-11.02437929	2334	9334	2.894983837	0.058373607
<b>Parp12</b>	-10.45691862	4100	16402	2.88798686	0.053691396
<b>Ifi205</b>	-11.01035929	2355	9419	2.880938473	0.036602648
<b>Ifi35</b>	-10.31399814	4636	18545	2.844522487	0.034548901
<b>Bmp10</b>	-16.42609029	9	37	2.84040249	0.083865352
<b>Tmprss2</b>	-16.42609029	9	37	2.84040249	0.083865352
<b>Cfb</b>	-10.85049483	2698	10792	2.830852992	0.036252363
<b>Irf9</b>	-9.757023751	7937	31749	2.801864919	0.034707774
<b>Slc13a1</b>	-15.64193086	22	87	2.799283441	0.170892291
<b>Parp10</b>	-9.304488232	12358	49432	2.777784411	0.041060104
<b>Parp11</b>	-10.28186214	4613	18451	2.76164992	0.034550829
<b>Helz2</b>	-10.09381896	5536	22143	2.739508181	0.126311716
<b>Inmt</b>	-16.48023683	8	33	2.732109415	0.086260313
<b>Xaf1</b>	-9.385039132	11170	44682	2.730237996	0.064287205
<b>Nmi</b>	-11.24340461	1714	6858	2.700158522	0.038863745
<b>Cyp26c1</b>	-14.57782473	59	237	2.665732612	0.076329952
<b>Ifitm3</b>	-8.633568387	22903	91611	2.659180921	0.038374651
<b>Mndal</b>	-9.682977943	7973	31892	2.634661485	0.096410743
<b>Ednrb</b>	-16.53076788	8	33	2.631047323	0.267202351
<b>Btc</b>	-12.80881883	348	1394	2.601876322	0.241433749
<b>Irf4</b>	-16.55710801	7	28	2.578367065	0.088058499
<b>Ifi203</b>	-7.668783161	58394	233575	2.575761631	0.110346221
<b>Tor3a</b>	-9.573097408	8670	34682	2.574645191	0.10799567
<b>Spats2l</b>	-14.91734588	40	162	2.562054451	0.119375656
<b>Piwil4</b>	-15.53687762	21	84	2.539386294	0.088796611
<b>Pax5</b>	-15.07984584	34	135	2.537159119	0.088271563
<b>Hrh2</b>	-16.23137982	10	40	2.53667626	0.099704947

<b>Apol10a</b>	-16.02864726	12	50	2.53667626	0.09685576
<b>Olfr99</b>	-15.88480623	15	60	2.53667626	0.172762683
<b>Epsti1</b>	-15.14143734	31	125	2.519336639	0.080846329
<b>Calcb</b>	-14.72204183	48	191	2.510829798	0.074882774
<b>C2</b>	-16.59937709	7	27	2.4938289	0.183215084
<b>Rasgef1b</b>	-16.60335595	6	26	2.485871172	0.1325207
<b>Apol11b</b>	-16.26841237	9	37	2.462611164	0.096067745
<b>Irf1</b>	-9.815440587	6575	26300	2.460176958	0.235998986
<b>Gm12185</b>	-12.17154689	613	2452	2.452080438	0.068694255
<b>Mov10</b>	-9.220816414	11624	46495	2.419998164	0.175574922
<b>Casp1</b>	-14.86270901	40	159	2.411816989	0.081011567
<b>C130026I21Rik</b>	-11.45479484	1232	4926	2.409658483	0.080762307
<b>Il15</b>	-11.60131775	1073	4292	2.408941656	0.174663313
<b>4-Sep</b>	-14.55799877	54	217	2.402198265	0.111837736
<b>Znfx1</b>	-9.173031145	11976	47902	2.398849049	0.0674628
<b>Cd274</b>	-12.02267382	696	2782	2.380136729	0.204941235
<b>Oas1d</b>	-16.65847428	6	23	2.375634511	0.124090217
<b>4930579F01Rik</b>	-15.8608552	14	56	2.361434773	0.14045595
<b>Tapbp</b>	-8.130705172	33671	134684	2.360506919	0.154778391
<b>Kcnh4</b>	-16.32123964	8	33	2.356956617	0.085998144
<b>Dock10</b>	-14.48753762	57	228	2.335481195	0.150767765
<b>H2-Q10</b>	-11.06799658	1732	6926	2.314318987	0.039857383
<b>Oas1h</b>	-15.35271056	23	92	2.279111751	0.111681567
<b>Dusp28</b>	-16.71426017	5	20	2.264062735	0.101551395
<b>Apol7e</b>	-14.70177041	44	178	2.263690573	0.158860249
<b>Apol6</b>	-13.10410831	223	891	2.199545552	0.267353144
<b>Hdc</b>	-14.25364446	68	272	2.194861574	0.147722386
<b>Gm7030</b>	-10.20664912	3871	15485	2.176675288	0.041513709
<b>Trex1</b>	-10.86564478	1984	7936	2.154512565	0.042802594
<b>Gm8909</b>	-10.61361713	2547	10189	2.149659718	0.040011988
<b>H2-Q1</b>	-10.02885092	4559	18236	2.141230205	0.044521347
<b>A530032D15Rik</b>	-12.08410964	584	2337	2.139734039	0.060612817
<b>Eif2ak2</b>	-9.515022477	7603	30413	2.1358342	0.047471495
<b>Erap1</b>	-10.31249433	3414	13655	2.131252233	0.034846535
<b>Capn13</b>	-14.42648522	55	220	2.12111376	0.103325086
<b>Fbxo39</b>	-16.78618069	4	17	2.120221699	0.100108883
<b>Srms</b>	-16.78618069	4	17	2.120221699	0.100736435
<b>H2-Q2</b>	-13.07920558	212	849	2.107027791	0.060447774
<b>Cnksr1</b>	-15.0032161	31	123	2.102631945	0.124679633
<b>H2-BI</b>	-12.02281184	610	2440	2.095870237	0.069066483
<b>H2-Q6</b>	-10.63747144	2434	9734	2.095207754	0.046016655
<b>Ly6c2</b>	-10.69574879	2296	9183	2.084458748	0.043084193
<b>Ly6c1</b>	-8.074328745	31616	126463	2.083079472	0.050697887
<b>Plekha4</b>	-13.98817862	83	333	2.063736661	0.06876492
<b>Tmem140</b>	-11.05728364	1574	6298	2.049236661	0.041393709
<b>H2-Q7</b>	-9.141370205	10663	42652	2.04745132	0.048438474
<b>Ntf3</b>	-13.66915053	114	456	2.044363731	0.064130259

<b>Hs3st3a1</b>	-14.40059112	54	218	2.039370564	0.091412994
<b>1700123I01Rik</b>	-16.13366324	9	35	2.038962234	0.078305881
<b>Slc6a1</b>	-16.84196658	4	15	2.008649923	0.103512738
<b>Pla1a</b>	-13.66947991	114	456	2.000993851	0.158352415
<b>BC147527</b>	-14.28455235	60	240	1.999514392	0.068269128
<b>Ly6i</b>	-12.58372083	330	1322	1.978777854	0.051355781
<b>Mnda</b>	-8.980121077	12310	49240	1.963434446	0.170875346
<b>H2-D1</b>	-7.762697467	40974	163897	1.963394064	0.047059595
<b>H2-T3</b>	-16.5209627	6	22	1.957510499	0.108544865
<b>Gm11127</b>	-9.998652663	4350	17402	1.950314127	0.035417143
<b>Slc22a30</b>	-16.52877583	6	22	1.941884227	0.134490996
<b>Spaca1</b>	-16.87534942	4	14	1.941884227	0.11404955
<b>Ly6a</b>	-6.507472366	142268	569070	1.939695119	0.035083031
<b>Tnfsf10</b>	-12.26018102	455	1821	1.938164135	0.122203248
<b>Ccdc146</b>	-14.36555915	54	218	1.937584253	0.113045336
<b>Cngb3</b>	-14.41341445	52	208	1.924111758	0.100968899
<b>Casp4</b>	-14.31842525	58	230	1.919934137	0.11851638
<b>Tmem106a</b>	-11.0471058	1505	6019	1.918847405	0.035204414
<b>B2m</b>	-7.351106504	60356	241424	1.90437979	0.036863133
<b>Patl2</b>	-7.347395712	60567	242267	1.903797014	0.036872148
<b>Fat3</b>	-14.7237085	37	148	1.888457244	0.095387183
<b>Kcng2</b>	-14.02043945	75	301	1.883383181	0.07343388
<b>H2-K1</b>	-11.44064417	1002	4006	1.882662042	0.042016559
<b>Ifi204</b>	-8.825581887	13886	55543	1.872655252	0.170843272
<b>Gm6034</b>	-9.927300781	4528	18110	1.868693775	0.035216569
<b>Mb</b>	-14.66511652	40	158	1.862540374	0.136099472
<b>Daxx</b>	-9.455924162	7226	28903	1.858844815	0.03465362
<b>Gm5431</b>	-11.97096841	589	2357	1.856350824	0.058687333
<b>Usp17lb</b>	-15.22208328	22	87	1.847219133	0.087136739
<b>Sult6b1</b>	-14.01049839	75	301	1.807955114	0.162826889
<b>Apol7a</b>	-11.60092015	852	3406	1.794466353	0.214570835
<b>Ntm</b>	-14.27771626	56	225	1.79004302	0.102302223
<b>Ifi202b</b>	-7.825958406	36186	144746	1.779156565	0.115236834
<b>Pyhin1</b>	-14.1662616	64	255	1.776563569	0.107254326
<b>Vmn2r47</b>	-16.06358775	8	34	1.773648108	0.085594291
<b>Kif5c</b>	-13.13403139	178	712	1.769129647	0.10667534
<b>Adar</b>	-8.412385198	19806	79225	1.760014436	0.05586109
<b>Lgals9</b>	-8.281650935	22456	89822	1.749346782	0.038475182
<b>Dll1</b>	-14.48762794	44	178	1.747513894	0.084066786
<b>Mup15</b>	-15.2399717	20	82	1.746903766	0.091618735
<b>Psme1</b>	-10.33751384	2872	11490	1.740892787	0.048667785
<b>Aire</b>	-14.41151992	54	216	1.739644526	0.22034093
<b>Tbxas1</b>	-16.28356852	6	26	1.739151673	0.087262443
<b>Tnfrsf14</b>	-14.45851011	46	183	1.738610254	0.078757618
<b>Psme2</b>	-8.509072611	17752	71009	1.727987392	0.039894949
<b>Dennd6b</b>	-12.07645255	498	1992	1.711776415	0.054544081
<b>Igf2bp1</b>	-14.15177955	62	247	1.705444216	0.080612476

<b>Mitd1</b>	-10.91404614	1586	6342	1.704645352	0.033985489
<b>Samhd1</b>	-9.162283884	9286	37142	1.697340371	0.132936199
<b>Rnf135</b>	-11.42248968	956	3826	1.685726196	0.076579424
<b>6030498E09Rik</b>	-14.08458343	65	261	1.679871805	0.07681373
<b>9930111J21Rik2</b>	-10.15537678	3373	13491	1.66914935	0.074249975
<b>Psme2b</b>	-10.99488123	1444	5777	1.667150842	0.035447461
<b>Serpinb9e</b>	-16.32210619	6	24	1.662076333	0.084087543
<b>Tdrd7</b>	-9.594289522	5834	23338	1.652439446	0.037562422
<b>Slfn4</b>	-13.41504876	128	510	1.652405934	0.068345021
<b>9930111J21Rik1</b>	-9.945763523	4113	16452	1.644297515	0.064749784
<b>Rnasel</b>	-12.15238714	453	1811	1.628595854	0.109884677
<b>Wisp2</b>	-11.91408057	571	2285	1.622891958	0.092893548
<b>3110062M04Rik</b>	-10.28752663	2888	11554	1.613080501	0.042128964
<b>Trafd1</b>	-9.751935119	4895	19580	1.602929721	0.035044436
<b>Clec2d</b>	-10.47894564	2401	9603	1.60171296	0.132461023
<b>Apobec1</b>	-10.32499919	2770	11080	1.599726037	0.048680431
<b>Mkl</b>	-9.664302765	5341	21364	1.599505795	0.040112262
<b>Prl2c1</b>	-13.84791494	82	329	1.596495752	0.172986496
<b>Isg20</b>	-9.447454658	6704	26815	1.591460074	0.12241454
<b>Rnf31</b>	-11.04917842	1327	5307	1.58070731	0.036166169
<b>Prl2c5</b>	-13.42897707	124	494	1.572701834	0.121627465
<b>Sp140</b>	-10.25327097	2908	11634	1.534134798	0.05434528
<b>Xdh</b>	-9.594524369	5624	22494	1.521448527	0.087840519
<b>Pnpt1</b>	-9.616093379	5451	21803	1.520610923	0.041935119
<b>Gsdmd</b>	-15.35604811	17	67	1.514750962	0.096677874
<b>Tor1aip1</b>	-8.169634501	23078	92313	1.510895662	0.036050073
<b>Crispld2</b>	-14.40067086	45	179	1.497613817	0.107395438
<b>Ifitm1</b>	-15.19650358	20	78	1.49291343	0.084504286
<b>Lck</b>	-14.53913161	38	153	1.49035588	0.06455837
<b>Trim15</b>	-14.35050835	46	186	1.482178044	0.081726948
<b>Corin</b>	-14.18394726	55	220	1.481144148	0.082213756
<b>Pml</b>	-9.073824746	9452	37810	1.480335023	0.139290323
<b>Fmo3</b>	-13.86091622	77	309	1.478510806	0.09741543
<b>Aox1</b>	-11.5838666	750	3000	1.474039242	0.046686103
<b>Glb1l3</b>	-14.34809012	46	186	1.466973757	0.081749069
<b>Lgals8</b>	-7.551303963	42275	169099	1.461117765	0.062071424
<b>Fbxw24</b>	-15.76259455	10	42	1.459343779	0.078044849
<b>H2-T23</b>	-8.97556655	10142	40567	1.447215843	0.05605909
<b>Tcirg1</b>	-8.366756452	18490	73960	1.426675963	0.050901316
<b>Serpinb9</b>	-10.02608274	3502	14010	1.422126859	0.034468633
<b>H2-M3</b>	-11.56835429	747	2988	1.414476583	0.04991142
<b>Aim1</b>	-12.68249271	248	992	1.407609595	0.128429327
<b>Fbxw17</b>	-11.34696416	932	3727	1.404112443	0.055495015
<b>Adamts6</b>	-11.88494007	538	2152	1.379627224	0.04650718
<b>Pglyrp1</b>	-15.77280005	10	40	1.37439426	0.068671201
<b>Adcy8</b>	-15.08845961	21	84	1.372529136	0.0826858
<b>Aldh3a1</b>	-9.831338127	4216	16862	1.35976181	0.050432018

<b>Apobec3</b>	-10.7852668	1630	6520	1.348180311	0.115591181
<b>C1rb</b>	-11.22418296	1026	4103	1.333509344	0.037842585
<b>Zc3hav1</b>	-8.88884482	10765	43061	1.331691692	0.115227342
<b>C1ra</b>	-10.42414313	2276	9103	1.320123003	0.033308004
<b>Pappa2</b>	-13.25821363	133	533	1.312889086	0.07804911
<b>Agrn</b>	-9.071050956	8760	35038	1.296104231	0.040543431
<b>Tgm2</b>	-9.991735611	3494	13977	1.293346571	0.052513035
<b>Mup2</b>	-13.35645776	119	477	1.286641811	0.065831859
<b>Celsr1</b>	-15.50718174	13	52	1.277022222	0.072079725
<b>Trim69</b>	-14.57143454	34	138	1.276714435	0.063176656
<b>Ankrd37</b>	-13.87163869	72	289	1.274744314	0.104023743
<b>Bco2</b>	-14.88512313	25	101	1.268376473	0.099605536
<b>Atp10a</b>	-10.44239769	2197	8787	1.267372103	0.032380628
<b>Shisa5</b>	-8.150876894	21721	86883	1.262825739	0.034564565
<b>Rimbp2</b>	-14.36860727	42	169	1.251586057	0.072950343
<b>Adgb</b>	-14.41984031	40	160	1.247100384	0.066054443
<b>Mettl21e</b>	-14.66957242	32	127	1.229474263	0.114764856
<b>Pnp</b>	-9.772263555	4254	17014	1.229258396	0.037576439
<b>Insl6</b>	-11.9679893	476	1903	1.220595929	0.082721217
<b>Apol7c</b>	-15.04646299	21	83	1.217630454	0.06660494
<b>Phactr1</b>	-11.01824306	1239	4957	1.213648684	0.10658826
<b>Zfp619</b>	-12.77383709	210	840	1.209400192	0.077264889
<b>1700093K21Rik</b>	-14.57221375	34	136	1.205821328	0.091270284
<b>Rbm43</b>	-10.42744774	2186	8743	1.196780463	0.034146098
<b>Lrrd1</b>	-13.23236775	133	531	1.195162703	0.096393697
<b>Pnp2</b>	-10.78815657	1516	6062	1.177406404	0.035944412
<b>Ptprh</b>	-14.58453723	33	132	1.176401078	0.062037755
<b>Ip6k3</b>	-13.46129567	104	417	1.174604448	0.072462343
<b>Il12rb1</b>	-14.8276926	26	103	1.169663416	0.069976287
<b>Cldn23</b>	-14.07075877	56	226	1.164186223	0.101323309
<b>Omp</b>	-14.33568782	43	171	1.157576268	0.078720148
<b>Trim56</b>	-11.18442631	1013	4051	1.152466673	0.04023263
<b>Hist1h2bc</b>	-9.886347045	3736	14946	1.143902403	0.065184898
<b>Usp25</b>	-9.83399745	3895	15581	1.140838631	0.035418102
<b>Il15ra</b>	-12.72770818	215	859	1.140555114	0.055608632
<b>Spaca6</b>	-11.7194193	594	2377	1.135195813	0.059689526
<b>Trim14</b>	-12.53245986	262	1048	1.119591577	0.075852056
<b>Vwa5a</b>	-9.103978393	8069	32276	1.107585212	0.054319476
<b>Dapp1</b>	-11.69686696	604	2416	1.105220285	0.077203465
<b>Ovol1</b>	-14.66664384	30	119	1.101800025	0.070419339
<b>Pnpla7</b>	-11.74965071	564	2256	1.087497712	0.04277972
<b>Acacb</b>	-12.24226456	346	1386	1.068704083	0.080660251
<b>Dcp2</b>	-10.31217118	2372	9488	1.063564579	0.045449105
<b>Hist1h2bh</b>	-11.87154794	499	1997	1.059250457	0.064340747
<b>Hist1h2ba</b>	-12.50966311	264	1055	1.056784931	0.077985077
<b>Nampt</b>	-9.023200599	8594	34377	1.055116938	0.05786398
<b>Slfn3</b>	-11.78496904	540	2162	1.052388194	0.049717704

<b>Ubc</b>	-5.19750198	392880	1571518	1.050954349	0.039551337
<b>Nqo1</b>	-9.604636773	4815	19260	1.043500033	0.06515886
<b>Nlgn2</b>	-10.4593484	2056	8224	1.042453217	0.078750893
<b>Foxf1</b>	-12.08673035	398	1590	1.040989681	0.048009122
<b>Hist1h2be</b>	-10.37735897	2221	8885	1.037953696	0.06099103
<b>Hist1h2bl</b>	-11.57598338	668	2673	1.030474715	0.071878815
<b>Syt8</b>	-11.32390644	859	3436	1.02961595	0.069069415
<b>Hist1h2bj</b>	-12.12831729	384	1534	1.022035399	0.076386636
<b>Tor1aip2</b>	-7.396010737	43578	174313	1.021328976	0.077608239
<b>Hist1h2bf</b>	-11.75673189	556	2226	1.020015705	0.078168327
<b>Hist1h2bq</b>	-10.7018938	1600	6398	1.01876238	0.067319155
<b>Hist1h2br</b>	-10.7018938	1600	6398	1.01876238	0.067319155
<b>Pcdh15</b>	-11.72017313	574	2296	1.01320886	0.077707528
<b>Gbp8</b>	-11.24186232	933	3731	1.009810406	0.07726973
<b>Plekha2</b>	-10.65469679	1676	6702	1.005811886	0.078617709
<b>Rnf114</b>	-9.918269025	3450	13798	0.99700792	0.041462144
<b>Rnpepl1</b>	-11.84765822	502	2010	0.994067396	0.063272053
<b>Trim26</b>	-8.717150108	11557	46227	0.993114208	0.08046427
<b>Arc</b>	-12.43122676	280	1120	0.992514741	0.072592476
<b>Pcgf5</b>	-10.54113227	1846	7382	0.992481161	0.039906312
<b>Hist1h2bg</b>	-11.29194196	878	3510	0.992458234	0.062954847
<b>Enpp4</b>	-10.32854625	2296	9183	0.9907208	0.049211343
<b>Hist1h2bn</b>	-11.83465589	511	2043	0.984132603	0.082909317
<b>Tnnt3</b>	-12.01868904	420	1680	0.983810712	0.055282358
<b>Osgin1</b>	-12.20187405	348	1394	0.976288772	0.050615317
<b>Ogfr</b>	-9.427584504	5620	22481	0.971484064	0.060880357
<b>Srxn1</b>	-9.465634042	5418	21671	0.971465663	0.05561363
<b>Rhobtb2</b>	-11.27035981	886	3543	0.970739447	0.043914857
<b>Hist1h2bk</b>	-11.62765202	626	2502	0.970470807	0.075713986
<b>Islr</b>	-12.9995071	158	634	0.967412194	0.080193016
<b>Idnk</b>	-10.95165349	1218	4870	0.964319264	0.041449672
<b>Hist1h2bp</b>	-11.06241169	1095	4379	0.956128608	0.061439804
<b>Snca</b>	-12.11076717	383	1532	0.954106762	0.069485685
<b>Amer1</b>	-11.27452024	885	3540	0.952685108	0.067754324
<b>Cmtr1</b>	-9.058182726	8043	32172	0.95172036	0.033913517
<b>Etnk1</b>	-9.143153383	7372	29489	0.941940569	0.036287743
<b>Myo7a</b>	-9.031843128	8260	33042	0.93698176	0.043745505
<b>Cacna2d3</b>	-12.96963796	160	639	0.930100941	0.065031025
<b>Slc25a22</b>	-10.22111735	2497	9989	0.922771955	0.033693742
<b>Asb13</b>	-11.45994928	722	2886	0.913336488	0.041236784
<b>Spag16</b>	-12.87133369	175	700	0.910600915	0.05931765
<b>Hist1h2bm</b>	-12.44916268	268	1074	0.90183112	0.066727569
<b>Sptlc2</b>	-9.516370708	5021	20084	0.896199137	0.037219692
<b>Nell1</b>	-12.57388702	235	939	0.890488215	0.05254359
<b>Vmn2r60</b>	-13.2733678	116	465	0.886389277	0.067454613
<b>Zfhx2</b>	-11.89944648	463	1852	0.883291476	0.056737551
<b>Stxbp1</b>	-9.317219593	6152	24608	0.869905669	0.063304579



<b>Cfh</b>	-11.2380666	892	3570	0.859159412	0.044215038
<b>Ikbke</b>	-11.8501477	485	1939	0.854332055	0.059265194
<b>Zdhhc18</b>	-10.66861198	1568	6273	0.851085899	0.034204861
<b>Aida</b>	-9.242466091	6533	26132	0.847429402	0.035179681
<b>Ccdc167</b>	-9.521518432	4935	19739	0.845640893	0.033287776
<b>Zcchc6</b>	-9.503700178	5023	20092	0.83644761	0.036037443
<b>Nub1</b>	-8.826046906	9926	39704	0.836404158	0.054278725
<b>Pdgfrb</b>	-8.358182524	15806	63226	0.82939389	0.044159598
<b>Jade2</b>	-10.35184009	2166	8662	0.826751963	0.062429579
<b>Bnip3</b>	-10.26962803	2351	9405	0.825253934	0.04770952
<b>Masp1</b>	-12.04543215	393	1571	0.82491062	0.047722747
<b>Asah2</b>	-10.60572521	1680	6722	0.822678319	0.063985515
<b>Pgd</b>	-9.062509141	7746	30984	0.792207722	0.041780953
<b>Sycp3</b>	-10.93501222	1189	4755	0.789962437	0.042351506
<b>Nt5c3</b>	-9.658008485	4262	17049	0.780857656	0.047134463
<b>Greb1l</b>	-12.08927208	373	1492	0.7808212	0.051858696
<b>Atm</b>	-10.26911719	2310	9242	0.767450209	0.046254595
<b>Angpt1</b>	-10.42416071	1977	7908	0.766826158	0.043251013
<b>Mill2</b>	-11.84133546	474	1896	0.747539976	0.04456846
<b>Arel1</b>	-10.12395325	2654	10614	0.746724974	0.040959214
<b>Whamm</b>	-11.4329966	715	2859	0.744969968	0.050028792
<b>Ehd4</b>	-10.49935323	1826	7306	0.743450628	0.04791263
<b>Papd7</b>	-9.547173098	4704	18816	0.738819605	0.034434784
<b>Tmco4</b>	-11.82392518	480	1921	0.723645961	0.047653759
<b>Ddx24</b>	-8.549605733	12750	50998	0.723352911	0.048056849
<b>Grik3</b>	-12.31309665	294	1176	0.721555304	0.050286589
<b>Chpt1</b>	-8.61479922	11865	47460	0.700049972	0.035655126
<b>Tnnt2</b>	-9.251825647	6268	25070	0.694996763	0.036054649
<b>Cox18</b>	-10.39062359	2005	8020	0.692389617	0.033910225
<b>Tmem184b</b>	-7.959412056	22856	91424	0.691897702	0.039918484
<b>Cutc</b>	-11.60048936	596	2386	0.691809646	0.04123963
<b>Stard3</b>	-10.92383213	1176	4702	0.688154006	0.037816102
<b>Fndc3a</b>	-9.836475152	3488	13951	0.684623013	0.040100812
<b>Pmepa1</b>	-10.05234969	2804	11217	0.682040354	0.033181193
<b>Zufsp</b>	-11.27703176	824	3297	0.678595709	0.046131844
<b>N4bp1</b>	-9.699797089	3980	15921	0.668453283	0.035210021
<b>A630033H2ORik</b>	-10.54643572	1703	6811	0.654298014	0.034121766
<b>Smg7</b>	-8.952468285	8369	33475	0.646980509	0.034595474
<b>Esd</b>	-7.166489124	50006	200022	0.646097636	0.04166059
<b>Zcchc2</b>	-9.465129117	5014	20058	0.6443709	0.03838473
<b>Sema3a</b>	-8.150256722	18635	74539	0.636229513	0.035909259
<b>Map2k1</b>	-9.318676728	5783	23131	0.623473599	0.037740865
<b>Fam46a</b>	-10.43718391	1886	7544	0.619196889	0.032656784
<b>Mrpl30</b>	-9.959053593	3029	12117	0.594370461	0.03333178
<b>Elf1</b>	-8.713982735	10518	42074	0.588408916	0.036245025
<b>Gbe1</b>	-10.02087287	2844	11375	0.583826034	0.032723327
<b>Lsp1</b>	-8.754313248	10097	40389	0.582278347	0.0353999

<b>Aldoa</b>	-6.551129371	91362	365447	0.577134879	0.035723514
<b>Atp6v0a1</b>	-9.20772619	6213	24852	-0.627707142	0.033517932
<b>Gnl3l</b>	-9.221558118	6128	24514	-0.630897006	0.034645504
<b>Slc12a2</b>	-10.20003793	2304	9215	-0.631914367	0.033309161
<b>Tmem184c</b>	-10.5048361	1699	6797	-0.63873274	0.032796278
<b>Enah</b>	-9.439041215	4939	19756	-0.645042643	0.033620614
<b>Agtppb1</b>	-9.522956181	4549	18195	-0.651790776	0.036046633
<b>Tenm3</b>	-8.912022197	8382	33528	-0.65850437	0.034858499
<b>Flot1</b>	-10.3085676	2080	8318	-0.668789905	0.037764564
<b>Etv5</b>	-11.05723206	986	3942	-0.693156851	0.040238906
<b>Nop10</b>	-10.31863049	2066	8262	-0.695406501	0.036395013
<b>Aktip</b>	-9.210610475	6260	25039	-0.708194057	0.034719829
<b>Scand1</b>	-10.99250183	1056	4225	-0.726975282	0.038941942
<b>Trp53inp1</b>	-10.31564887	2086	8346	-0.731302304	0.036940539
<b>Jund</b>	-9.194581467	6442	25770	-0.746259021	0.0482744
<b>Lrrn3</b>	-11.17643336	900	3600	-0.782049472	0.056212306
<b>Celf4</b>	-11.75976554	495	1980	-0.78386111	0.044646824
<b>Otud6b</b>	-10.32939516	2072	8287	-0.797245155	0.03204298
<b>Rcn2</b>	-9.629263592	4191	16764	-0.810621724	0.038269891
<b>H2afj</b>	-10.0732327	2715	10860	-0.814756919	0.043780506
<b>Prelp</b>	-11.05393124	1007	4029	-0.818005348	0.038513051
<b>Col6a2</b>	-9.893007772	3237	12947	-0.835029895	0.040348712
<b>Uggt2</b>	-10.20821793	2362	9446	-0.836929855	0.039276156
<b>Lin7c</b>	-9.960532345	3029	12115	-0.852106328	0.036681516
<b>Ass1</b>	-10.05778433	2752	11007	-0.868606496	0.033071816
<b>Polr3g</b>	-12.06825921	370	1482	-0.87377135	0.060026287
<b>Fez1</b>	-10.14609308	2543	10172	-0.877976262	0.047199813
<b>Itm2a</b>	-10.74258392	1410	5641	-0.892127968	0.048798988
<b>Egfl7</b>	-12.45851238	250	1001	-0.893207838	0.05784306
<b>Cdkn1a</b>	-8.640688612	11439	45756	-0.91067004	0.033955796
<b>Tmem184a</b>	-13.42129884	95	381	-0.923165665	0.060540002
<b>Pmm1</b>	-9.949390735	3212	12846	-0.930986693	0.07219029
<b>Taf13</b>	-11.39301826	735	2941	-0.956396111	0.040493947
<b>Osbpl6</b>	-11.3890844	743	2973	-0.991898137	0.039910653
<b>Ctsf</b>	-12.59521545	228	914	-1.026567896	0.079294265
<b>Nefm</b>	-12.06601776	385	1541	-1.03518258	0.059860902
<b>Pgap1</b>	-12.85729778	177	709	-1.067522963	0.080350078
<b>Nipal1</b>	-12.94295809	160	638	-1.079086378	0.056502415
<b>Nlrc3</b>	-12.28013566	312	1246	-1.08824055	0.05842319
<b>Rhob</b>	-9.626844068	4591	18363	-1.094465547	0.086404017
<b>Clu</b>	-12.03000886	410	1640	-1.122163245	0.067838031
<b>Satb1</b>	-12.5388683	243	973	-1.12621009	0.072977922
<b>Fam212b</b>	-11.19913117	958	3833	-1.157427976	0.066085199
<b>Mturn</b>	-12.66673016	226	902	-1.159337362	0.119435052
<b>Crmp1</b>	-12.22052755	336	1346	-1.168990497	0.052619403
<b>Tfb2m</b>	-10.98573344	1210	4838	-1.187298388	0.092629738
<b>AU021092</b>	-12.4496426	277	1109	-1.205535327	0.08079362

<b>Pcolce2</b>	-11.22054565	954	3815	-1.240534423	0.063349703
<b>Islr2</b>	-15.14930506	18	70	-1.258890074	0.073180882
<b>Sort1</b>	-11.10162812	1084	4336	-1.268802805	0.068832988
<b>Galnt18</b>	-13.82737628	72	286	-1.301430634	0.115097782
<b>Gap43</b>	-15.07900267	19	77	-1.316607193	0.075417137
<b>Ddah2</b>	-12.42064409	290	1162	-1.321743067	0.0682187
<b>Cobl</b>	-12.98118474	174	698	-1.357452136	0.121569326
<b>Btg2</b>	-11.70538197	601	2403	-1.40211012	0.044845726
<b>Il17d</b>	-15.1367806	20	78	-1.488733405	0.119512287
<b>Camsap3</b>	-14.58901158	36	142	-1.542817572	0.130891594
<b>Ifi27</b>	-9.280186131	7169	28675	-1.591300293	0.035199878
<b>Fhl1</b>	-12.64342964	268	1070	-1.647727833	0.114665095
<b>H60b</b>	-12.22510108	384	1535	-1.655147489	0.046438708
<b>Klf2</b>	-12.87725559	213	851	-1.701468606	0.136415915
<b>Cldn1</b>	-14.14107171	59	235	-1.745550126	0.110435994
<b>Ccdc80</b>	-14.14644747	58	231	-1.772950373	0.074516041
<b>Id4</b>	-14.24500636	60	240	-1.778356857	0.230936074
<b>Areg</b>	-14.90594746	31	123	-1.796248998	0.28128819
<b>Fxyd1</b>	-15.16945018	20	82	-1.806386495	0.090535326
<b>Ces1d</b>	-15.71413726	12	46	-1.815624633	0.087351252
<b>Akr1c18</b>	-14.55866925	45	180	-1.998328945	0.18565916
<b>H60c</b>	-13.60729785	112	446	-2.07805972	0.065870595
<b>Gm10324</b>	-16.87534942	4	14	-2.2012505	0.106858666
<b>Cox6b2</b>	-16.86371942	4	15	-2.224510507	0.154728921
<b>Ace2</b>	-16.74764302	5	20	-2.456663311	0.195657389
<b>Cldn18</b>	-16.67042195	6	22	-2.611105452	0.092799553

regulation in IFN $\alpha$  treated cells comp

<b>p_value_edgeR</b>	<b>q_value_edgeR</b>
7.18E-109	1.46E-105
2.68E-122	2.18E-118
2.27E-121	1.23E-117
3.75E-111	1.02E-107
9.66E-39	2.92E-36
5.51E-111	1.28E-107
2.48E-127	4.05E-123
2.23E-90	2.79E-87
1.27E-66	6.88E-64
2.16E-81	1.96E-78
1.45E-114	5.91E-111
3.35E-76	2.18E-73
3.94E-114	1.28E-110
5.98E-74	3.74E-71
1.44E-93	2.35E-90
5.50E-81	4.72E-78
2.45E-89	2.67E-86
1.05E-68	6.11E-66
6.74E-77	4.58E-74
4.48E-82	4.29E-79
2.33E-83	2.37E-80
1.57E-43	6.10E-41
1.84E-89	2.14E-86
4.43E-92	6.56E-89
1.72E-44	6.99E-42
3.09E-94	5.60E-91
1.21E-77	8.60E-75
1.02E-46	4.39E-44
6.14E-41	2.04E-38
2.02E-80	1.57E-77
1.22E-80	9.94E-78
2.73E-32	6.18E-30
2.28E-38	6.74E-36
1.41E-30	3.06E-28
1.38E-35	3.57E-33
5.10E-15	5.98E-13
2.15E-10	2.00E-08
1.87E-29	3.87E-27
4.81E-56	2.45E-53
4.98E-38	1.45E-35
1.19E-44	4.96E-42
6.01E-79	4.45E-76
7.49E-43	2.84E-40
1.58E-37	4.44E-35

1.39E-91	1.89E-88
9.95E-57	5.23E-54
4.72E-71	2.85E-68
1.09E-50	5.37E-48
9.98E-42	3.46E-39
1.58E-19	2.25E-17
2.88E-48	1.34E-45
9.05E-11	8.52E-09
2.60E-19	3.66E-17
5.42E-32	1.21E-29
1.97E-20	2.92E-18
2.34E-42	8.47E-40
7.22E-38	2.07E-35
1.15E-36	3.12E-34
5.53E-08	4.31E-06
2.04E-35	5.21E-33
1.11E-14	1.29E-12
2.49E-30	5.34E-28
1.74E-27	3.50E-25
7.75E-49	3.71E-46
2.50E-20	3.68E-18
1.85E-22	3.08E-20
3.73E-67	2.09E-64
2.77E-16	3.44E-14
3.98E-48	1.80E-45
9.07E-43	3.36E-40
1.32E-22	2.26E-20
2.99E-31	6.59E-29
4.53E-19	6.31E-17
5.79E-16	7.04E-14
1.77E-11	1.73E-09
7.16E-34	1.69E-31
4.01E-18	5.49E-16
8.45E-21	1.29E-18
3.27E-35	8.20E-33
4.53E-30	9.58E-28
1.07E-17	1.43E-15
1.51E-06	0.000102554
4.63E-16	5.67E-14
5.40E-36	1.42E-33
8.89E-24	1.65E-21
3.58E-36	9.56E-34
8.44E-42	2.99E-39
1.70E-37	4.68E-35
4.20E-33	9.64E-31
3.71E-24	6.94E-22
1.47E-22	2.49E-20

1.43E-09	1.23E-07
1.43E-09	1.23E-07
1.69E-09	1.44E-07
4.21E-11	4.04E-09
8.60E-48	3.79E-45
4.10E-26	7.96E-24
3.76E-34	9.28E-32
1.40E-23	2.56E-21
9.56E-27	1.90E-24
6.03E-07	4.36598E-05
2.82E-12	2.95E-10
6.45E-30	1.35E-27
3.92E-20	5.71E-18
1.53E-08	1.24E-06
6.21E-23	1.09E-20
2.66412E-05	0.001427935
3.08E-08	2.45E-06
3.40E-13	3.72E-11
4.80E-23	8.59E-21
1.34E-43	5.32E-41
2.78E-25	5.27E-23
1.61E-27	3.28E-25
2.12E-39	6.63E-37
1.08E-41	3.68E-39
1.02E-07	7.79E-06
1.02E-07	7.79E-06
8.18E-39	2.52E-36
1.19E-40	3.87E-38
1.72E-06	0.000116078
4.29E-34	1.04E-31
7.63E-40	2.44E-37
3.25E-11	3.15E-09
3.27E-07	2.42442E-05
1.95E-21	3.15E-19
2.35E-33	5.48E-31
3.50E-13	3.81E-11
4.84E-34	1.16E-31
9.22E-14	1.02E-11
6.64643E-05	0.003271812
1.48304E-05	0.000827558
2.20E-06	0.000145407
9.85E-12	9.78E-10
6.44E-12	6.56E-10
3.14E-08	2.48E-06
9.01E-09	7.45E-07
6.96E-10	6.30E-08
1.32E-06	9.09719E-05

5.92E-07	4.30737E-05
1.55275E-05	0.000863498
9.56E-10	8.52E-08
8.21E-12	8.25E-10
4.16774E-05	0.002162713
1.7557E-05	0.000966466
2.76E-06	0.00017696
2.54604E-05	0.001369145
1.05E-16	1.34E-14
7.70E-07	5.48705E-05
3.14E-10	2.88E-08
4.23E-14	4.82E-12
8.03E-07	5.69167E-05
1.70E-08	1.36E-06
7.96E-17	1.02E-14
9.23E-06	0.000533261
3.96682E-05	0.002065027
2.71806E-05	0.001452067
1.94E-07	1.47377E-05
4.76E-06	0.000287076
1.38E-06	9.42797E-05
7.41E-26	1.42E-23
6.77E-07	4.87768E-05
7.7089E-05	0.003738357
8.05E-06	0.000471789
0.000450837	0.017743799
2.47E-06	0.000161616
5.59E-23	9.91E-21
1.33E-21	2.19E-19
3.07E-23	5.56E-21
5.93E-21	9.28E-19
3.71E-15	4.42E-13
1.32E-19	1.91E-17
3.33E-26	6.54E-24
9.24E-08	7.13E-06
0.000273426	0.011724201
0.000276217	0.011782811
4.81E-14	5.41E-12
3.26E-06	0.000204803
5.40E-13	5.83E-11
1.71E-19	2.42E-17
9.38E-21	1.42E-18
6.31E-18	8.50E-16
6.24E-11	5.95E-09
1.08E-20	1.61E-18
4.94E-18	6.70E-16
6.54E-12	6.62E-10

4.02E-08	3.17E-06
1.36944E-05	0.000769436
0.00071312	0.026348253
1.63058E-05	0.000900635
7.49E-10	6.74E-08
3.93E-15	4.64E-13
3.421E-05	0.001798119
2.15E-17	2.80E-15
0.000446	0.017638658
1.85E-22	3.08E-20
0.000702309	0.026007763
0.00128245	0.043715986
1.30E-22	2.26E-20
7.71E-07	5.48705E-05
1.76E-06	0.000118283
4.20E-07	3.07999E-05
2.00E-06	0.000132785
1.59E-21	2.58E-19
6.78E-21	1.05E-18
7.03E-21	1.08E-18
1.47E-06	0.000100398
3.98E-09	3.34E-07
1.38E-17	1.83E-15
7.56669E-05	0.003680348
4.44E-21	7.02E-19
3.32877E-05	0.001757276
2.88E-21	4.61E-19
8.66E-13	9.29E-11
4.53E-06	0.000275305
0.000140268	0.00640203
0.000988707	0.034794803
2.42E-06	0.000159193
1.88E-06	0.000125042
1.84E-06	0.000122555
0.000134945	0.006176383
1.07E-06	7.4202E-05
2.21E-12	2.32E-10
1.84E-17	2.42E-15
8.18E-07	5.76807E-05
2.84032E-05	0.001512423
8.49E-14	9.48E-12
0.000286536	0.012190117
0.000415821	0.016729342
2.93E-07	2.1932E-05
1.58E-16	1.99E-14
8.98E-12	8.98E-10
3.42E-07	2.51969E-05



1.56E-18	2.15E-16
2.86571E-05	0.001520974
1.35E-08	1.10E-06
2.69E-07	2.01917E-05
8.95E-09	7.44E-07
4.41E-17	5.70E-15
0.00080607	0.029142006
3.05E-16	3.77E-14
1.45E-08	1.18E-06
1.03E-09	9.04E-08
7.60E-06	0.00044865
9.05E-07	6.32738E-05
4.30E-14	4.86E-12
1.70E-16	2.13E-14
7.54872E-05	0.003680348
3.72E-12	3.86E-10
1.85E-14	2.12E-12
0.001027967	0.03578994
3.51063E-05	0.001839299
2.20E-15	2.64E-13
6.0629E-05	0.003002704
3.04E-10	2.80E-08
1.56E-06	0.00010515
8.78E-13	9.35E-11
0.000469345	0.018295459
1.25E-14	1.44E-12
0.000111832	0.005251271
0.000175318	0.007782978
3.46E-06	0.000215871
1.28747E-05	0.000729893
1.00167E-05	0.00057672
0.000373858	0.015305619
2.29707E-05	0.001247614
8.65E-11	8.19E-09
1.2901E-05	0.000729893
2.16E-08	1.73E-06
0.000628633	0.023492979
4.48E-09	3.74E-07
1.12E-09	9.72E-08
8.69E-14	9.63E-12
1.48E-09	1.27E-07
0.00039937	0.016227765
1.30E-08	1.07E-06
9.68E-10	8.57E-08
0.000816886	0.029447639
0.000235463	0.010149811
2.65E-09	2.24E-07

0.000291247	0.012358279
3.37E-11	3.25E-09
0.00031753	0.013266245
1.54E-12	1.62E-10
1.62587E-05	0.000900635
2.90E-10	2.68E-08
4.18E-08	3.27E-06
4.14E-06	0.000255714
0.001435162	0.048017831
5.32919E-05	0.002693094
0.000233456	0.010090012
0.001489866	0.049460155
5.24E-12	5.37E-10
2.07E-11	2.02E-09
9.43418E-05	0.004507932
5.86047E-05	0.002911296
0.001060226	0.036755993
4.64E-10	4.22E-08
6.24152E-05	0.003081796
0.000440012	0.017486736
0.000585041	0.022066321
4.7229E-05	0.002425284
0.000995831	0.034935782
1.80E-10	1.69E-08
0.000415224	0.016729342
1.06E-09	9.32E-08
0.000174641	0.007774857
5.67871E-05	0.002837567
0.000472572	0.018370184
0.001131205	0.038885769
0.000361188	0.014861607
1.62E-08	1.30E-06
1.46256E-05	0.000818935
1.89E-09	1.61E-07
4.75E-06	0.000287076
6.43E-06	0.000381267
0.000107578	0.005066131
2.99E-06	0.000189721
0.0001571	0.007071226
0.00089363	0.031792163
2.98E-07	2.21977E-05
0.000330146	0.013688046
9.85E-07	6.85798E-05
5.42089E-05	0.002726173
0.000311365	0.013042119
1.91677E-05	0.001051575
4.45E-06	0.000271804

1.27E-07	9.66E-06
7.73312E-05	0.003738976
0.00042236	0.016950578
3.75E-06	0.000233158
4.18561E-05	0.002165091
0.000219294	0.00950314
0.000165444	0.007397943
0.000387915	0.01580172
0.000455816	0.017896539
0.000502881	0.019463066
0.00014439	0.006553472
0.00014439	0.006553472
0.000538475	0.020547796
0.000445294	0.017638658
0.00064139	0.023860296
1.14E-06	7.84268E-05
0.000106917	0.005049604
0.000840762	0.030108503
0.000428552	0.017114777
8.89E-07	6.24626E-05
0.00012006	0.005573385
1.03621E-05	0.000594508
0.001179789	0.040372938
4.79405E-05	0.002446803
2.53226E-05	0.001366247
0.000124121	0.005745542
5.51673E-05	0.002765834
4.94E-06	0.000295941
0.000721741	0.026546399
0.000737529	0.027065998
2.56E-06	0.000166056
0.000164365	0.00737786
0.000466434	0.018225591
0.000411198	0.016625449
2.07E-07	1.56451E-05
7.13E-07	5.11796E-05
8.42E-06	0.000489995
0.000513273	0.019818195
4.68E-07	3.41967E-05
8.40E-06	0.000489995
0.000347362	0.014365276
0.000745501	0.027235846
3.17E-06	0.000200136
0.00016572	0.007397943
0.001318282	0.044564492
0.000261203	0.011229677
0.000758813	0.027660167

3.88515E-05	0.002028996
0.000521446	0.020038772
3.91E-06	0.000242436
4.92E-06	0.000295846
2.79E-06	0.000178283
7.74E-06	0.000455144
0.000373049	0.015305619
7.86481E-05	0.003791396
0.0013064	0.044346849
0.00010043	0.004756989
0.000203286	0.00890413
0.001459213	0.048722158
9.89322E-05	0.004699711
0.000126403	0.005834599
0.000305912	0.012913301
0.000700914	0.026007763
0.000383259	0.015651194
0.00021036	0.009164723
0.000424621	0.016999426
0.000179493	0.007904498
0.000951892	0.033717682
0.000743353	0.02721841
5.13276E-05	0.002605393
0.000988584	0.034794803
0.000963975	0.034071587
0.001490422	0.049460155
0.000153636	0.00695375
0.000176606	0.007798428
0.000133711	0.006137136
0.00043904	0.017486736
0.000631102	0.023531286
0.000318441	0.013270267
0.00053257	0.020370189
0.000132487	0.006098134
0.001509073	0.049875931
0.000276239	0.011782811
0.000304551	0.012889238
0.00035958	0.014832885
0.00130511	0.044346849
0.000806619	0.029142006
0.000571338	0.021599489
0.001017063	0.035486135
0.000449177	0.017721286
0.000822865	0.029597727
0.001433529	0.048017831
0.000892445	0.031792163
0.001321654	0.044585993

0.00149586	0.049539737
0.001181901	0.040372938
0.001310105	0.044380151
0.001106084	0.038252266
0.000908046	0.032234634
0.000877915	0.031370061
0.001109208	0.038252266
0.000802933	0.029138073
0.001181091	0.040372938
0.001110428	0.038252266
0.000557754	0.021135001
0.000311359	0.013042119
0.000526309	0.020178052
0.000329913	0.013688046
0.000997001	0.034935782
0.001435171	0.048017831
0.00054131	0.020607706
2.51212E-05	0.001359881
7.39597E-05	0.003618916
0.000175779	0.007782978
9.06362E-05	0.004356421
9.27473E-05	0.004444776
5.33859E-05	0.002693094
2.17601E-05	0.001185817
5.89E-06	0.000350446
0.001038301	0.036072641
9.46482E-05	0.004509352
0.000113805	0.005313308
0.000716282	0.026405205
2.51E-06	0.000163855
0.001006555	0.035194848
0.000598876	0.022484068
8.76E-06	0.000507788
3.29E-06	0.000206465
0.000600344	0.022487383
7.12122E-05	0.003494974
0.000402038	0.016295555
4.54272E-05	0.002342373
3.3325E-05	0.001757276
0.00021499	0.009341446
4.80531E-05	0.002446803
0.000156374	0.007058077
1.36435E-05	0.000769226
0.001326524	0.044657817
2.88E-06	0.000183466
0.000114947	0.005351263
5.69464E-05	0.002837567

2.57E-06	0.000166056
0.000827032	0.029682086
4.31E-06	0.0002639
0.00055002	0.02089052
0.000515301	0.019849427
2.62E-06	0.000169037
0.000181214	0.007958756
9.47E-10	8.48E-08
0.000800725	0.029122805
0.000309313	0.013023125
2.01E-15	2.43E-13
4.31E-06	0.0002639
4.03E-12	4.16E-10
2.01266E-05	0.00110048
5.52E-06	0.000329217
9.20E-08	7.13E-06
0.000457381	0.017914838
0.001466041	0.048850045
1.17109E-05	0.000669536
0.00011368	0.005313308
4.73328E-05	0.002425284
1.08E-11	1.07E-09
0.000473516	0.018370184
0.000596899	0.022461586
0.000204288	0.008924041
1.22053E-05	0.000695361