

Supplementary information 1.

Cows are dried off 60 days before the expected date of calving, at which point they are sent to the “Dry” herd, voluntary feed intake was estimated at 2% of live weight. They were fed oat silage and hay from pastures in adequate amounts to provide 1.93 Mcal/Kg dry matter (DM), 11,9% crude protein (CP) and 30% neutral detergent fiber (NDF). Three weeks before calving animals were moved to a prepartum herd where they received a diet consisting of corn silage, hay and concentrated feed with anionic salt, in sufficient amounts to provide 1.89 Mcal/Kg DM, 13.6% de CP, 30% de NDF and a dietary cation-anion difference (DCAD) of -150 Meq/Kg DM. Once milk production began, the feed ration consisted of corn silage and alfalfa silage, hay and a concentrated feed (base on corn, soy and a mineral-vitamin nucleus). After calving cows were moved to the Fresh herd with an estimated voluntary feed intake of 3.7% of their live weight with a diet capable of providing 2.58 Mcal/Kg DM, 17.5% CP and 30 NDF. Three weeks after calving cows were sent to the high production herd where voluntary feed intake was estimated at 4.2% of live weight with a diet capable of providing 2.73 Mcal/Kg DM, 17.4% CP, 30% NDF. Lastly, from 200 days into lactation onwards there was an estimated voluntary feed intake of 3.9% live weight and the diet was formulated to provide 2.6Mcal/ Kg DM, 17.5% CP and 30% NDF.

Average body condition score (BCS) was 2.5 at dry-off, 3.32 in the prepartum herd, 3 at calving and 2.85 three weeks after calving, when they entered the high production herd. Non esterified fatty acid (NEFA) values of the studied animals was 1.19 mmol/l (± 0.18), 0.72 mmol/l (± 0.18), 0.61 mmol/l (± 0.18) y 0.56 mmol/l (± 0.18) at calving, 4.7 and 14 days after calving, respectively. Beta-hydroxybutyrate (BHB) values were 1.19 mmol/l (± 0.24), 1.11 mmol/l (± 0.23), 1.08 mmol/l (± 0.23) y 1.06 mmol/l (± 0.23) respectively. Cortisol levels were 0.7 $\mu\text{g/dl}$ (± 0.51), 0.43 $\mu\text{g/dl}$ (± 0.34), 0.83 $\mu\text{g/dl}$ (± 0.8) y 0.92 $\mu\text{g/dl}$ (± 0.86). Blood glucose levels were 64.9 mg/dl (± 7.82), 65.38 mg/dl (± 7.93), 60.65 mg/dl (± 9.04) y 56.98 mg/dl (± 5.22). Three animals retained their placenta, two from G1 and the other from G2. Four animals were diagnosed with mastitis two from each group and six animals were diagnosed with metritis, 4 in G1 and 2 in G2. Average milk production two weeks after calving was 25.5 l (± 9.07) for G1 and 34.2 l (± 4.11) G2.

Blood samples were collected by jugular venipuncture on day +7 after calving to determine antioxidant capacity (AC), thiobarbituric acid reactive substances (TBARS), cortisol, and glucose concentrations. Samples were collected in Vacutainer® tubes without anticoagulant (A), and with EDTA plus potassium fluoride anticoagulant for glucose determination (B). After collection, samples were refrigerated and transported to the laboratory within a maximum of 3 h.

Tubes A were centrifuged, and serum samples were divided into aliquots and stored at -70°C for subsequent analyses of cortisol, antioxidant capacity (AC), and TBARS. Cortisol concentrations were determined by chemiluminescence using the Architect Cortisol system (Abbott®). Antioxidant capacity (AC) was determined by UV spectrophotometry using the Total Antioxidant Assay Kit® (Cayman Chemical, Ann Arbor, MI, USA) at 750 nm. TBARS concentrations were determined colorimetrically using the TBARS Assay Kit® (Cayman Chemical, Ann Arbor, MI, USA) according to the manufacturer’s instructions, with absorbance readings at 530–540 nm. Tubes B were used for colorimetric glucose determination using the enzymatic kit from Wiener Lab® with photocolometric readings at 490–530 nm.

Supplementary Table S1. Diet composition of dry and fresh Holstein cows (%). The used total mixed ration (TMR) complied with the Nutrient Requirements of Dairy Cattle recommendations (NRC 2001).

Component of the diet	Diet composition of dry cows (%)	Diet composition of fresh cows (%)
Corn Silage	73.54%	64.12%
Concentrate (based in a mix of Soybean meal and corn grain (17% of Crude Protein for dry cows, 20% for fresh cows), supplemented with minerals and vitamins	24.50%	30.76%
Anionic salts	1.96%	5.12%

Supplementary Table S2. Predicted Nutrient analysis of dry and fresh Holstein cows. The used total mixed ration (TMR) complied with the Nutrient Requirements of Dairy Cattle recommendations (NRC 2001).

	Predicted nutrient analysis dry cows (%)	Predicted nutrient analysis fresh cows (%)
Dry Matter	65%	53%
Crude Protein	12%	14.9%
NDF	33%	33%
ADF	21%	21%
Calcium	0.44%	0.79%
Phosphorus	0.22%	0.42%

Supplementary Table S3. Body condition score (BCS), cortisol, hematocrit, antioxidant capacity (AC), and thiobarbituric acid reactive substances (TBARS) measurements in the overall dairy herd and the experimental groups categorized according to glutathione peroxidase (GSHpx) activity.

	Overall Herd	Lower GSHpx activity (G1)	Higher GSHpx activity (G2)	<i>p value</i>
BCS at dry off	2.5	-	-	-
BCS prepartum	3.32	-	-	-
BCS at calving	3.0	-	-	-
BCS 3 weeks post - calving	2.85	-	-	-
Cortisol	-	0.818 ($\pm$ 0.523)	0.47 ($\pm$ 0.677)	0.767
Blood Glucose (mg/dL) 7 days after calving	-	57.891 ($\pm$ 7.038)	60.1283 ($\pm$ 9.088)	0.645
Tbars (nM malondialdehyde) 7 days after calving	-	16.587 ($\pm$ 3.680)	17.583 ($\pm$ 2.277)	0.556
Hematocrit	-	32.333 ($\pm$ 2.250)	30.333 ($\pm$ 2.338)	0.162
AC (mM) 7 days after calving	-	0.818 ($\pm$ 0.243)	0.763 ($\pm$ 0.234)	0.704

Supplementary Table S4. Differentially expressed genes (DEGs) identified by RNA-seq analysis with and without adjustment for milk production as a covariate.

Over expressed genes						
Ensemble id	baseMean	log2Fold Change	lfcSE	stat	pvalue	padj
ENSBTAG00000019716	1154.81384555499	3.21724250003134	0.480421359132848	6.69670995860469	2.13164104960536e-11	2.98664227460207e-07
ENSBTAG00000053537	144.277632229243	2.69433228451432	0.414096073001481	6.50653908641311	7.6901900402412e-11	5.38736263269097e-07
ENSBTAG00000052659	19.7215451562763	3.46461621147143	0.549046204154126	6.3102452676257	2.7859360471514e-10	1.30112499855461e-06
ENSBTAG00000013125	620.868612675499	3.86783389968875	0.628851236730046	6.1506341623832	7.71737448808349e-10	2.70320334881345e-06
ENSBTAG00000027513	654.459339045058	3.28832122973434	0.539947507717345	6.09007576243084	1.12857266328654e-09	3.16248631706154e-06
ENSBTAG00000020872	1172.26890805298	3.55782803417853	0.606414531716477	5.86699006718718	4.43777249265238e-09	1.03629383990921e-05
ENSBTAG00000018134	96.6347954291124	4.12994318598376	0.720322199309677	5.73346648200167	9.83985186892131e-09	1.72332705669321e-05
ENSBTAG00000000033	99.1641983169992	2.10901643738214	0.37322471208039	5.65079526922609	1.59707215952747e-08	2.48628644745994e-05
ENSBTAG00000004269	1195.71647367483	2.69885698331394	0.485417891769323	5.55986301509561	2.69986474332895e-08	3.78278049187819e-05
ENSBTAG00000013368	212.551339561477	4.26839955612832	0.775599104422327	5.50335802580312	3.72624620880022e-08	3.89580455964058e-05
ENSBTAG00000054306	257.546030335667	1.943397233936	0.353614192321141	5.49564968147185	3.89274597351853e-08	3.89580455964058e-05
ENSBTAG00000037735	454.026010667042	2.94744565384412	0.534198307905388	5.51751214900169	3.4383232193e-08	3.89580455964058e-05
ENSBTAG00000008353	633.150391106069	1.67111703662029	0.303686072643896	5.50277799067806	3.73853078408254e-08	3.89580455964058e-05
ENSBTAG000000044071	130.06737865734	2.3962954282397	0.44081278026631	5.44641985677284e-08	5.44641985677284e-08	5.0873192304088295e-05
ENSBTAG00000014693	18.6658980941657	2.49640171627763	0.464931823758063	5.36939307810577	7.90020583732333e-08	5.89041771695934e-05
ENSBTAG00000053667	42.3004352977687	5.95987725403404	1.11337017530047	5.35300602284019	8.65049687222227e-08	5.89041771695934e-05
ENSBTAG000000004741	64.55793132255178	2.21444257790224	0.412578854983586	5.36731960727929	7.99153712270064e-08	5.89041771695934e-05
ENSBTAG00000006561	308.59920759841	2.36363343425467	0.439412015463664	5.37908238981718	7.48664433457919e-08	5.89041771695934e-05
ENSBTAG00000002135	478.00161685062	1.80591767104946	0.337597818701986	5.34931676393214	8.82868974778004e-08	5.89041771695934e-05
ENSBTAG00000013860	981.567636105059	2.68394874836061	0.504226450602671	5.32290351914829	1.02123916751636e-07	6.50390089821441e-05
ENSBTAG00000010662	694.616475822058	3.24215918091342	0.610789819938851	5.3081421213838404	1.10748266168375e-07	6.74649546645695e-05
ENSBTAG00000048591	391.559110395126	2.98118262792158	0.56462049906655	5.27997590036171	1.2920087914863e-07	7.54263965729773e-05
ENSBTAG00000046152	262.163460698099	3.86955439674939	0.734846262025662	5.26580129302509	1.3957919538906e-07	7.8225764263845e-05
ENSBTAG000000006156	325.022105479569	3.63974343774558	0.69318433844437	5.25075832774458	1.5147430833282e-07	8.16271743865825e-05
ENSBTAG00000001945	379.11436542547	3.94639637295722	0.753731432860851	5.23581238741542	1.64260742891598e-07	8.52391580983028e-05
ENSBTAG00000009812	62.8804735210154	2.99735758064967	0.573308671806647	5.2281741547781	1.71192218833703e-07	8.56633635028217e-05
ENSBTAG00000047904	398.638631018264	3.43731583149563	0.658305545746837	5.22145963026341	1.77518330936089e-07	8.57658391291567e-05
ENSBTAG00000053578	69.7219581118034	2.80009435838198	0.537225217481528	5.21214244666894	1.8667212184919e-07	8.71821033076333e-05
ENSBTAG00000014972	822.807586731058	1.88238373851543	0.362445152332001	5.19356853417413	2.06300948329736e-07	9.03275808452477e-05
ENSBTAG00000016355	2439.95454890259	3.30968383912778	0.637251936707664	5.19368188385135	2.06175320306675e-07	9.03275808452477e-05
ENSBTAG00000012408	2569.33843810966	1.85266226628304	0.358277948530564	5.17101952220845	2.32820240269402e-07	9.88498298913571e-05
ENSBTAG00000043553	78.6715651609724	4.02755937008704	0.785936340177227	5.12453638316152	2.98270751985135e-07	0.00011846422537297
ENSBTAG00000001511	1264.52034241711	3.34809821395904	0.653834423620969	5.1207126651685	3.04383135638207e-07	0.00011846422537297
ENSBTAG00000034366	2559.53857196057	3.20991650640293	0.628949487049642	5.10361574736378	3.33224541746961e-07	0.000126184028497748
ENSBTAG00000004799	32.9038358562046	2.53058029940211	0.496808867829372	5.09366974558762	3.51198320185052e-07	0.000129490517476652
ENSBTAG00000011446	166.477376470353	2.23520896630266	0.440534494907007	5.07385685376237	3.89832358700464e-07	0.000137852733020326
ENSBTAG000000011011	1015.70169489159	1.98288156378548	0.391305518556902	5.06734883550367	4.03394622356247e-07	0.000137852733020326
ENSBTAG000000009768	1477.62535576057	3.52793664988933	0.696038337596154	5.06859350478373	4.00762303031373e-07	0.000137852733020326
ENSBTAG00000054150	8.6552292700232	5.06939144399315	1.00267928220527	5.05584540736063	4.28488335120364e-07	0.00014294166817551
ENSBTAG00000023179	1153.46338373056	2.46171597375504	0.488252497081664	5.04189121093895	4.60953334910108e-07	0.00015019574826571
ENSBTAG00000016060	44.2606455627395	1.89985730068436	0.377734599432193	5.0296088934935	4.91481314835943e-07	0.0001565032886856
ENSBTAG000000021647	143.08178250114	5.52356299299062	1.10008905535182	5.02101440435124	5.13993043924577e-07	0.000160034589742828
ENSBTAG00000010498	1019.31357425806	2.95760652511543	0.590052905868446	5.01244294486169	5.37433136397527e-07	0.000163695123349255
ENSBTAG00000007434	16.2558182498726	4.36704432102466	0.873662964913065	4.99854577383764	5.77642953602705e-07	0.000169957191473354
ENSBTAG000000008428	968.693730026337	5.32988482146972	1.06661426131479	4.99701252344003	5.82252866555077e-07	0.000169957191473354
ENSBTAG00000019330	24.2169799857023	5.55114731369391	1.1122547327663	4.99089538408783	6.01000435753665e-07	0.000171849328680502
ENSBTAG00000008389	31.3930032244454	4.14489416545003	0.831553099716891	4.98452133346769	6.21153925204085e-07	0.000174059752920689
ENSBTAG000000027126	6.36454594415252	5.15537756921914	1.03840034454387	4.96473021827022	6.87966347765818e-07	0.00018900189212837
ENSBTAG000000020654	123.8113520800261	1.78835300954004	0.36679907706057	4.95828764874458	7.11189616486032e-07	0.000190305430696821
ENSBTAG00000013371	1656.38153937401	2.29331619838023	0.462825582062302	4.95503335870384	7.23178810184759e-07	0.000190305430696821
ENSBTAG000000004043	2655.36802276469	2.90609351260399	0.586818342496685	4.95228813100778	7.33458943517831e-07	0.000190305430696821
ENSBTAG00000007166	77.0653038685471	3.46820317555233	0.701086639915704	4.94689668593503	7.5405971677084e-07	0.00019209328530454
ENSBTAG00000049808	548.396185278658	5.87037288922104	1.19308990035147	4.92031060483513	8.64069777811693e-07	0.000216187172521363
ENSBTAG000000027051	1482.48483305853	2.76748094721831	0.565013609115706	4.89807838708461	9.67784293020243e-07	0.000237888170693099
ENSBTAG00000013334	7188.13663096662	3.30485111774811	0.67601985768297	4.88868940784572	1.01509502105958e-06	0.000245215454139064
ENSBTAG000000010508	352.111554625899	0.666792292381807	0.137203634445801	4.85987339238604	1.17460846425461e-06	0.000278939647333413
ENSBTAG00000049416	116.329487453924	3.18417856890854	0.656319834971236	4.85156534854397	1.22490836072994e-06	0.000286036517369787
ENSBTAG00000010606	343.130853758947	2.31332336940065	0.477768047627368	4.84193821853259	1.28578745204734e-06	0.000288954237742744
ENSBTAG000000013495	509.908518470838	3.1281680755233	0.646752099856346	4.83673431631396	1.3198965966409e-06	0.000288954237742744
ENSBTAG00000005947	1271.7512039199	2.45919174697507	0.508285473697672	4.8382097742927	1.31013826176999e-06	0.000288954237742744
ENSBTAG00000001562	1793.75871237446	2.88954299277798	0.597158431884352	4.83882138892343	1.30611356265214e-06	0.000288954237742744
ENSBTAG00000049346	902.227664668146	2.68671698241985	0.557812851852322	4.8165204037485	1.46083233605007e-06	0.000292396026577108
ENSBTAG00000045880	1125.00952249869	3.00827114283346	0.624558074765379	4.81663957985579	1.45996050112309e-06	0.000292396026577108
ENSBTAG00000019428	1516.06381973307	3.19000579576385	0.662171264036518	4.81749355343201	1.45372786299066e-06	0.000292396026577108
ENSBTAG00000010387	2292.19940666581	2.06848536191956	0.42881054832948	4.82377443833336	1.40866715818373e-06	0.000292396026577108
ENSBTAG00000010987	2656.84709728208	2.43785040324598	0.505133198075471	4.82615360173129	1.39195169090485e-06	0.000292396026577108
ENSBTAG00000017863	17871.9133338209	1.95452921425008	0.406837495943074	4.80420126891048	1.55370480410512e-06	0.000306605042398828
ENSBTAG00000019798	11.4675181810305	3.04896821395128	0.635888546065297	4.79481543238584	1.62824672638055e-06	0.000311183981442103
ENSBTAG00000052516	659.661381044324	3.49708785949046	0.728992726689965	4.79715054959355	1.60938641353275e-06	0.000311183981442103
ENSBTAG000000031701	1268.46365666612	1.61950104202228	0.33789295182961	4.7929411763491	1.64353826403082e-06	0.000311183981442103
ENSBTAG00000005018	686.053310820363	2.63652947413076	0.552977245415373	4.76788058819728	1.86174070814845e-06	0.000346212418942251
ENSBTAG00000049569	3130.59763772759	7.81090507153131	1.63883526744363	4.76613191496379	1.8779633099122e-06	0.000346212418942251
ENSBTAG000000017661	55.3619739383244	2.43300748075818	0.511488458729055	4.75672019424194	1.96763530949845e-06	0.00035344291673587
ENSBTAG00000047621	79.6173880046532	2.28071400738784	0.479258717548908	4.75883676994378	1.94711812502768e-06	0.00035344291673587
ENSBTAG00000014764	519.995613491828	2.62048121210991	0.55135888937996	4.7527685915372	2.00649953808112e-06	0.000355861582633603

Over expressed genes						
Ensemble id	baseMean	log2Fold Change	lfcSE	stat	pvalue	padj
ENSBTAG00000016163	706.558033916861	2.99831927649411	0.632189393202002	4.74275479584971	2.10831402149199e-06	0.000369244846939053
ENSBTAG00000009773	222.554073600901	5.51905748569313	1.16476407620425	4.7383479611414	2.1546759943603e-06	0.000372705745147928
ENSBTAG00000004305	32.0932988069884	2.41176764646365	0.509790074724869	4.73090349545401	2.23522769010586e-06	0.000377322592362328
ENSBTAG00000012929	61.7625230524845	1.13844904709633	0.240619077638488	4.73133326862288	2.23049979036861e-06	0.000377322592362328
ENSBTAG00000038042	671.939458919376	4.24659695787537	0.89816021943012	4.72810626212082	2.26623580081273e-06	0.000378002735776037
ENSBTAG00000008294	63.9592735512461	2.3882871035862	0.505796029670865	4.72183837650983	2.33722384553657e-06	0.000382206075483357
ENSBTAG00000001273	263.4310825417	2.31176590045082	0.490154840333889	4.71639920739346	2.40055204072054e-06	0.000382206075483357
ENSBTAG00000008008	1265.93391144744	1.41335628621135	0.299442286369991	4.71996224496165	2.35888421773468e-06	0.000382206075483357
ENSBTAG00000039046	3334.02044087616	4.6605253527163	0.991626643111456	4.69987911790353	2.60315534102832e-06	0.000409806848125256
ENSBTAG00000024503	2215.40577988643	2.67490757763693	0.570890033244486	4.68550407586357	2.79271740623689e-06	0.000434764039764278
ENSBTAG00000017969	58.783366000232	4.13764927729766	0.886291488877931	4.66849713578547	3.03411007129464e-06	0.000450780883399015
ENSBTAG00000048555	105.079376992268	1.89903924395778	0.406586558318252	4.67068870110389	3.00191573960124e-06	0.000450780883399015
ENSBTAG00000025250	158.675148125763	2.97081127590496	0.635648597158471	4.67366920840434	2.95865730026286e-06	0.000450780883399015
ENSBTAG00000044010	167.099895523399	3.407666184268	0.729345485146352	4.67222496562684	2.97954350607303e-06	0.000450780883399015
ENSBTAG00000001576	375.815314280844	1.55327938377076	0.332976248837623	4.66483537247194	3.08864212449543e-06	0.000450780883399015
ENSBTAG00000009012	718.46877194144	7.58900865459057	1.62663158492625	4.66547479153655	3.07905243641296e-06	0.000450780883399015
ENSBTAG00000012052	1010.94957447712	3.14801948788945	0.675490202113484	4.66034811169707	3.15675036228899e-06	0.000455971436350836
ENSBTAG00000007901	3067.26066432015	5.12404800483505	1.10072511905501	4.65515678358839	3.23734265925191e-06	0.000462840897946719
ENSBTAG00000024852	771.188485802452	8.34030981691952	1.79245172934272	4.65301780817151	3.27111985194392e-06	0.00046294606308673
ENSBTAG00000001042	870.986112837995	3.03135916048264	0.653737940110761	4.63696379617962	3.53564310591787e-06	0.000482940917388166
ENSBTAG00000006240	1015.65177487339	2.2465528972662	0.484555779452162	4.63631431618906	3.54676510944763e-06	0.000482940917388166
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ENSBTAG00000008800	157.752583946955	2.00186261168248	0.438358045771452	4.56672948288074	4.95392652229049e-06	0.000567971788398891
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ENSBTAG00000008851	452.924881088237	3.99760579935086	0.887847370634299	4.50258223606032	6.71327650681991e-06	0.000666709672281668
ENSBTAG000000051295	629.954529010742	2.04275688692634	0.453836845171322	4.50108207092618	6.76083925408328e-06	0.000666709672281668
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ENSBTAG000000008293	1078.74633972717	1.36143354256245	0.302955341429565	4.4938423469882	6.9949422355123e-06	0.000671274901792896
ENSBTAG00000014030	63.8816873537442	2.36619109031607	0.528431511875277	4.47776303483308	7.54292607107492e-06	0.0006816962647113397
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ENSBTAG000000006685	158.118669888467	2.57763902108149	0.575138392934762	4.48177178353293	7.40258816902469e-06	0.000686962647113397
ENSBTAG00000015592	160.97349701243	4.29223939018907	0.958520413522205	4.4779843283845	7.53511315932181e-06	0.000686962647113397
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Over expressed genes

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ENSBTAG00000002266	45.189523004327	2.6536413086948	0.597006518973497	4.44491177961928	8.79279412844252e-06	0.00072058484442208
ENSBTAG00000004716	1283.47510217454	4.8956983143893	1.10142675709723	4.4448696046678	8.79451919179043e-06	0.00072058484442208
ENSBTAG000000018869	209.333065974998	2.75349664736283	0.619684785294083	4.44338268859726	8.85554498124564e-06	0.000721366515885073
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ENSBTAG00000003806	717.148504750312	2.39417599913349	0.540444950187406	4.43000901072955	9.42291509383731e-06	0.000750385141933597
ENSBTAG000000014248	111.639796189222	1.26875784815215	0.286737675436471	4.42480342431754	9.6530140958575e-06	0.000752054531725129
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ENSBTAG00000006606	192.187890753014	2.89625634474595	0.654636748594608	4.4242190053701	9.67917935507892e-06	0.000752054531725129
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ENSBTAG000000002096	1017.35959737406	1.64179038282024	0.372513188142595	4.40733492150023	1.04650330689959e-05	0.000767773063990462
ENSBTAG000000011931	1013.4641036092	2.21822523772752	0.502960630073958	4.41033573025655	1.03210476197291e-05	0.000767773063990462
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ENSBTAG000000023744	944.938557990217	1.23193506430793	0.2823668399591216	4.36286449224277	1.283706461941884e-05	0.00087728975869489
ENSBTAG000000019338	1648.31175870461	1.90501252409131	0.436669908259931	4.36259171529021	1.28530675114802e-05	0.00087728975869489
ENSBTAG000000025191	1983.44574916658	1.3932622222436	0.319660039525244	4.35857489197854	1.30912124113989e-05	0.000881831620654372
ENSBTAG000000017363	4772.812377787926	1.20370605957307	0.276154208888113	4.35881844575022	1.3076653789454e-05	0.000881831620654372
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ENSBTAG000000012640	18813.2716993824	4.61745721416441	1.06001718367907	4.3560210959395	1.32448017001898e-05	0.000883680555339809
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ENSBTAG000000019123	149.295039359021	2.94241988287743	0.679139062708298	4.33257346609328	1.47376461066955e-05	0.00093858708909505
ENSBTAG000000013093	318.070704173369	2.72093064400468	0.628586226469393	4.32865139169123	1.5002518791277e-05	0.00095113253753946
ENSBTAG000000039823	116.680528457146	3.3860693074147	0.782940462072265	4.32481072501036	1.5266288210295e-05	0.000963495332712815
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ENSBTAG000000002455	311.833413611716	2.15225825541439	0.499211238240782	4.31131771592109	1.6228452716048e-05	0.000975299899601928
ENSBTAG000000012239	461.056727704419	1.61290501636132	0.374180564082101	4.31049918457931	1.62886429595925e-05	0.000975299899601928
ENSBTAG000000010899	586.402636050417	1.82279141517292	0.422623487741501	4.31303859828972	1.61025992438222e-05	0.000975299899601928
ENSBTAG000000012228	872.940526400237	2.52445851936546	0.585095120228925	4.31461215806711	1.59883346505996e-05	0.000975299899601928
ENSBTAG000000035081	1114.71064602184	2.34714461720692	0.543910597377613	4.31531326751738	1.59376726218508e-05	0.000975299899601928
ENSBTAG000000002951	318.779325984701	2.11093495919376	0.490128352278903	4.30690236420469	1.65556640693088e-05	0.000980367695404372
ENSBTAG000000021617	2160.60302212053	0.574150122122455	0.133320678056801	4.30653466882187	1.65831949047774e-05	0.000980367695404372
ENSBTAG000000002082	1286.77979936475	2.76539051825325	0.643153300147727	4.299737741155876	1.71000347041521e-05	0.01006667473210032
ENSBTAG000000013861	49.3698848107994	2.09378706698963	0.487128633954786	4.29822211433371	1.72173583161587e-05	0.0100934061660125
ENSBTAG000000007169	102.401010442873	3.29053719975477	0.766307093336288	4.29401897538059	1.75467467825262e-05	0.0102355159412765
ENSBTAG000000001294	1188.208145525645	1.83040448781198	0.426342497511916	4.293272424215193	1.760587639620291e-05	0.0102355159412765
ENSBTAG000000052486	21.9101725072793	2.71498930906664	0.632857063005426	4.29005136827139	1.78631795658035e-05	0.0103421904502675
ENSBTAG000000005923	89.0535582008159	1.70202333664771	0.397072045489977	4.286434555088	1.81563658344277e-05	0.0104511344320679
ENSBTAG000000001483	284.92398350032	0.775939612151834	0.181044962530514	4.28589451651301	1.8200533	

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ENSBTAG000000002006	2000.97663655806	2.6269162964912	0.613459502811034	4.28213481811591	1.85108766262597e-05	0.00104578988875212
ENSBTAG000000004472	1945.01268667692	1.85799863569825	0.433863402383047	4.28245071027649	1.84846086850392e-05	0.00104578988875212
ENSBTAG000000039556	90.5392228696762	2.86218441035555	0.668555977896311	4.281143995394	1.85934991444618e-05	0.00104623902214078
ENSBTAG000000012720	25.204364465387	2.44822513590007	0.572149735797263	4.27899373664586	1.87740145233539e-05	0.00105217086994685
ENSBTAG000000050566	84.0328888254019	2.25564863576448	0.527634163500937	4.27502385516111	1.91116830359517e-05	0.00106682785265625
ENSBTAG00000000873	111.383749662732	1.62769287642195	0.381558356578592	4.26590808026683	1.99090743260787e-05	0.00110255351929917
ENSBTAG00000020225	425.940236082285	2.50093127039326	0.586180963234274	4.26648326584045	1.98578382380277e-05	0.00110255351929917
ENSBTAG000000006990	19.7912118706405	3.64768048115379	0.857490138702069	4.25390370864797	2.10075666767833e-05	0.00115880715239532
ENSBTAG000000021469	25.2870818157405	2.48641739179232	0.585196486546847	4.24885905666364	2.14862044748719e-05	0.00116181569041371
ENSBTAG000000046343	52.0105923945254	2.88542813803597	0.678840704824641	4.25052316033603	2.13271780220206e-05	0.00116181569041371
ENSBTAG000000017273	182.50060248129	1.7262984495885	0.406902200117839	4.24253899115944	2.21005128325589e-05	0.00116181569041371
ENSBTAG000000013205	210.700334416411	4.34550444959764	1.02306453211263	4.24753699615036	2.16133482743737e-05	0.00116181569041371
ENSBTAG000000013064	355.604318761021	1.26070813607778	0.297092954674818	4.24348041998398	2.20079583362109e-05	0.00116181569041371
ENSBTAG000000009055	434.949529853966	2.00785961629375	0.47325538820048	4.24265558857403	2.20890300125839e-05	0.00116181569041371
ENSBTAG000000002356	456.211583852876	2.1486848596638	0.506774258220674	4.2359455060158e-05	2.23594455060158e-05	0.00116181569041371
ENSBTAG000000006752	586.694138101086	1.70351877958678	0.40141819940128	4.24375073708069	2.19814509586948e-05	0.00116181569041371
ENSBTAG000000000133	617.975842002921	2.25776162781125	0.531155768965109	4.25065754724168	2.13143846432128e-05	0.00116181569041371
ENSBTAG000000018862	578.113307515431	2.66890301736952	0.629327457495444	4.24088125439663	2.22643907990942e-05	0.00116181569041371
ENSBTAG000000000078	1263.29394527589	1.98985062682667	0.468847122929065	4.24143530447904	2.1943792527701e-05	0.00116181569041371
ENSBTAG000000049782	3132.10481657586	2.26322244025839	0.533673154328173	4.24083996338078	2.22684874079284e-05	0.00116181569041371
ENSBTAG000000006354	3881.48612059774	2.91794811840187	0.687340278320029	4.24527444475364	2.18326032182338e-05	0.00116181569041371
ENSBTAG000000011515	6220.94142429013	2.28610987297129	0.539223916327458	4.223927625400735	2.2388542153809e-05	0.00116181569041371
ENSBTAG000000044023	42.6619606472673	1.47802344987605	0.348876046417844	4.23652889056716	2.27001724676661e-05	0.00116930925163408
ENSBTAG000000000598	1078.59149913118	1.18268965890542	0.279112219490652	4.23732669627899	2.2619689070925e-05	0.00116930925163408
ENSBTAG000000034347	43.9667836591509	2.57701633955406	0.608508246051082	4.23497357065844	2.28578588159578e-05	0.00117311890062412
ENSBTAG000000011358	587.571560083621	1.8181870803443	0.429567137206824	4.232602832045e-05	2.31002237352045e-05	0.00118123078469397
ENSBTAG000000012668	80.0713719728337	1.70072867438869	0.402066834056964	4.2299650961704	2.33727573859142e-05	0.00119082074085107
ENSBTAG000000010449	505.868378738438	1.64917759903635	0.390001090885063	4.2286486822076	2.35099126211183e-05	0.00119346878889307
ENSBTAG0000000047338	94.1467029611044	2.94681290356063	0.697584815894576	4.223927625400735	2.39676410266046e-05	0.00121218561189522
ENSBTAG000000000436	1749.55827708675	2.51729718071852	0.596018824057638	4.22351959218504	2.40516451435923e-05	0.00121218561189522
ENSBTAG000000052822	125.296685308623	3.31464784467151	0.785371586138029	4.22048353056786	2.43778867497652e-05	0.00122102932345722
ENSBTAG000000009289	1069.24558730629	4.18465263884268	0.991561328142371	4.22026607943895	2.44014139296282e-05	0.00122102932345722
ENSBTAG000000022779	59.4607704394969	3.94576895353655	0.935247677694008	4.21895616278399	2.45435983447577e-05	0.00122377351035018
ENSBTAG000000000585	102.555966262148	2.52040551760468	0.597877378856494	4.21558936119181	2.4912671755704e-05	0.00122905438017313
ENSBTAG00000003454	223.928644244689	2.17080931440703	0.514917734308396	4.21583715177866	2.48853296233993e-05	0.00122905438017313
ENSBTAG000000002624	754.497252272428	2.23705750471173	0.530612829379349	4.21598834564251	2.48686603573121e-05	0.00122905438017313
ENSBTAG000000011961	3311.87877411846	2.08704727619073	0.49518613851982	4.21467224916514	2.50141181265564e-05	0.00122972915463572
ENSBTAG000000004224	365.931266831569	2.65374934063739	0.630563943517518	4.20853327869304	2.57033678302391e-05	0.00125919540793524
ENSBTAG000000002148	893.339831648147	3.02033885316811	0.718357520331982	4.20450648553424	2.61652436388454e-05	0.00127735619729569
ENSBTAG000000005273	415.710933948372	1.82524014052716	0.434235712105354	4.20333954496197	2.63005607804929e-05	0.00127950401769266
ENSBTAG000000003531	16.9013113852773	2.6453493157413	0.629723547017032	4.20081054340779	2.6596108670538e-05	0.0012849588916652
ENSBTAG000000005029	496.849228590216	1.48263832386932	0.352894508958476	4.20136410805921	2.65311484344782e-05	0.0012849588916652
ENSBTAG0000000001510	397.4144925749	1.12270704139737	0.267338572251653	4.19956997578537	2.67422737792835e-05	0.0012875790131703
ENSBTAG000000016424	798.060157667222	2.27676153776685	0.542851980083643	4.19407429888354	2.73988172744483e-05	0.00131317261959006
ENSBTAG000000044208	119.224126649348	3.06829119283398	0.732124170454466	4.190943717825	2.7779657035173e-05	0.00131421499932833
ENSBTAG000000011805	117.163344964738	2.18747724674656	0.522394515286754	4.18740469651715	2.82162440905069e-05	0.00131421499932833
ENSBTAG00000000015094	147.379483049962	1.77278378422324	0.423179928237729	4.18919628727605	2.79944177491178e-05	0.00131421499932833
ENSBTAG000000018203	224.964838363731	2.70449531075902	0.646001848320465	4.1865132704967	2.83272378700418e-05	0.00131421499932833
ENSBTAG0000000000040	292.342746974309	0.948463572081349	0.226476104253737	4.18791896481369	2.81523994007511e-05	0.00131421499932833
ENSBTAG0000000000087	322.093289065399	0.910741043028495	0.217441137525999	4.18844866887067	2.80867820112005e-05	0.00131421499932833
ENSBTAG000000000682	380.398185122029	1.04557709263388	0.249644770012894	4.18825955208225	2.81101922533662e-05	0.00131421499932833
ENSBTAG0000000000820	1910.14953112967	2.07245687965528	0.495005832658984	4.18673224216939	2.82999347418753e-05	0.00131421499932833
ENSBTAG000000003758	2936.60534041658	2.89927063898645	0.692296488677767	4.18790314034936	2.81543619054251e-05	0.00131421499932833
ENSBTAG000000009717	2597.83039753532	2.20766374182671	0.528431542920906	4.17776747664447	2.9438476046165e-05	0.00136260506058857
ENSBTAG000000014090	784.604684896197	1.43380338171228	0.343542939733801	4.17357836788404	2.99852452720699e-05	0.00137745334920319
ENSBTAG0000000005650	2022.09039667785	2.51417339597314	0.602392460947469	4.1736484813408	2.99762293853543e-05	0.00137745334920319
ENSBTAG000000005494	56.1601728401673	1.64422627561554	0.394448455066771	4.16844859689172	3.06720262304374e-05	0.00140220935537244
ENSBTAG000000023832	1709.68263503089	2.97762222420665	0.714395528883958	4.16803031908437	3.07243074797901e-05	0.00140220935537244
ENSBTAG000000054870	84.1329949970113	2.6812268899227	0.643877470689411	4.16418808232546	3.12462466331459e-05	0.00141384875241814
ENSBTAG000000020729	230.169754637009	1.80734719377232	0.434048333180832	4.16393073215501	3.12815051208545e-05	0.00141384875241814
ENSBTAG000000051340	69.8735562847021	2.62192775459798	0.630124216358643	4.16096967316946	3.168991704969031e-05	0.00141580182873898
ENSBTAG000000010273	122.118259364804	3.43014847559727	0.82441922012815	4.16068474854829	3.17294821371807e-05	0.00141580182873898
ENSBTAG000000019246	387.515933741874	0.889771025806442	0.213760302157732	4.16247084619991	3.148223646889684e-05	0.00141580182873898
ENSBTAG00000000015083	1659.40688961396	0.758052186566643	0.182159759695263	4.16146896457701	3.16206976687853e-05	0.00141580182873898
ENSBTAG000000052012	281.687652561259	8.50954938161345	2.04857722361595	4.1538826476813	3.26880863088504e-05	0.00145394532467715
ENSBTAG000000014880	328.492022441989	1.90674723320228	0.459511268550871	4.14951136936306	3.33185739759699e-05	0.0014772991771434
ENSBTAG000000014555	71.6257480905064	1.75190245148539	0.422273263704507	4.14874111639545	3.34308610808544e-05	0.00147760187572193
ENSBTAG000000013706	354.921167511883	4.0426956118743	0.974960798922602	4.14652118971527	3.37564952627423e-05	0.00148514059168784
ENSBTAG000000003305	2352.65863157528	2.21614415367131	0.53450841491404	4.14613519981292	3.38134215079882e-05	0.00148514059168784
ENSBTAG000000011494	2930.53151417696	1.449625963063	0.349724687662973	4.1450489910653	3.39741068921479e-05	0.00148755303645589
ENSBTAG000000019227	487.009872614006	2.96717526535056	0.716001574959572	4.14409041700516	3.41165126335141e-05	0.00148911669317186
ENSBTAG000000003935	631.116921114556	1.88038956484507	0.453910220037621	4.14264645702231	3.43320984250384e-05	0.00148924777409663
ENSBTAG000000020676	1614.22711294326	5.91382807631299	1.42739945329904	4.14307856335857	3.42674488928179e-05	0.00148924777409663
ENSBTAG0000000014991	40.4892066649054	3.58452818917856	0.866742904400838	4.13563026703572	3.53981739364179e-05	0.00152604250776354
ENSBTAG000000013290	482.562115699936	2.83520720386029	0.685445730161871	4.13629712623746	3.52955116009292e-05	0.00152604250776354
ENSBTAG000000012508	38.1098291323651	1.83847057569984	0.444846472497017	4.13282039841773	3.58338733883863e-05	0.00153069634159964
ENSBTAG000000003840	559.05821003663	1.60987526801831	0.389436848867845	4.13385449450527	3.5672937126355e-05	0.00153069634159964
ENSBTAG0000000007300	265.529908898716					

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ENSBTAG00000050712	2078.08606899008	1.24416274925024	0.301218119331635	4.13043794314526	3.62072825575191e-05	0.00153262911152085
ENSBTAG00000047605	149.246525905823	2.23755510418514	0.541872359845799	4.12930289491401	3.63864785922626e-05	0.00153557515528973
ENSBTAG000000017751	127.550823728594	1.49741734970435	0.362782213287148	4.12759307060932	3.66580079882266e-05	0.00153938938003477
ENSBTAG000000017992	1019.02939281979	1.88581558129766	0.456983148606871	4.12666328517066	3.68064693677573e-05	0.00153938938003477
ENSBTAG000000007213	5530.9588660015	2.03562224210391	0.493263093800881	4.12684887170101	3.67767907356836e-05	0.00153938938003477
ENSBTAG00000038080	45.3688741446128	2.44477721446798	0.592643590126779	4.12520654099202	3.70402200529641e-05	0.00154455512845857
ENSBTAG00000007214	536.768084028365	1.93579731583991	0.469461592488945	4.12344129277306	3.73253624553016e-05	0.00155182686457338
ENSBTAG00000003719	308.470648699456	1.68394414351458	0.408669582615654	4.12055170031653	3.7796623739414e-05	0.00156214895343047
ENSBTAG00000008951	1682.19134328243	6.53187433690273	1.58500324594435	4.12104792442303	3.77152952648565e-05	0.00156214895343047
ENSBTAG00000002937	311.238311405806	2.14103758870749	0.519944599246779	4.11781869031646	3.82475412430966e-05	0.00157613617752067
ENSBTAG00000001838	11.1230208776566	2.21341600555229	0.537854190040586	4.11527147419874	3.86723983330234e-05	0.00158432448258477
ENSBTAG00000005668	19.3482604497596	3.12416007795238	0.759062605314761	4.11581344684591	3.85816277930884e-05	0.00158432448258477
ENSBTAG00000023283	778.903590728628	1.63282103072144	0.396841413231931	4.11454292893354	3.87947358060716e-05	0.00158470275037571
ENSBTAG000000009975	25.0585113023669	2.90522839829319	0.70622412463307	4.1137484503275	3.89285634891839e-05	0.0015854568118301
ENSBTAG00000002773	222.417940235932	3.17971201065879	0.773961317191394	4.10836037929848	3.98477983765709e-05	0.00161828621754822
ENSBTAG00000016477	83.9544793757069	3.45971217964191	0.842394456130063	4.10699780187981	4.0083504253741e-05	0.0016184725936359
ENSBTAG00000001492	1525.80173821065	2.42716436386586	0.590957577482936	4.10717191275197	4.00533120654092e-05	0.0016184725936359
ENSBTAG000000013527	2053.43439690433	1.80379058439334	0.439294651790393	4.10610640726401	4.02384177043972e-05	0.00162005882315031
ENSBTAG000000014611	2959.16348649327	2.21113495755974	0.538609601593926	4.1085264640597328	4.038522329347077e-05	0.00162131061575948
ENSBTAG00000024928	4656.53704819375	1.36287503234671	0.332036831080699	4.10458992730077	4.05032695966827e-05	0.00162140374376892
ENSBTAG000000017490	47.5786585140639	2.05675698520347	0.501196193848785	4.10369633777389	4.0660107930647e-05	0.00162304493508916
ENSBTAG00000000507	257.969036864309	1.30489212312508	0.318031143997716	4.10303251034575	4.07769924738245e-05	0.00162308648167828
ENSBTAG000000012043	36.6927963742354	2.8549543296215	0.696218465822142	4.10065873965632	4.11975738938584e-05	0.00163518189186077
ENSBTAG000000010731	987.490281068595	1.83615143901357	0.447862155721176	4.09981378323176	4.13482705535093e-05	0.00163652717154017
ENSBTAG000000012822	9.11049188369747	2.68394144335142	0.654917037241045	4.09813959743359	4.16484087589145e-05	0.00163914566045267
ENSBTAG000000004587	625.00841675762	1.76386678556872	0.430404525047366	4.09816041170712	4.16446646405391e-05	0.00163914566045267
ENSBTAG00000008507	220.176475867185	1.73127106486802	0.422760740509436	4.09515572042427	4.21884726797031e-05	0.00165574983393647
ENSBTAG000000045948	144.667167872716	1.8057809784967	0.44103040132336	4.09445918711784	4.23154941100514e-05	0.00165609605579869
ENSBTAG000000051386	355.542171486288	0.629911475570147	0.153980319322132	4.09085705461066	4.29781981573425e-05	0.00167734689243043
ENSBTAG000000003495	220.190287490133	0.701618973039693	0.171582692828074	4.08910107118271	4.33048144014564e-05	0.00168400887328204
ENSBTAG000000047676	574.584278407303	1.7893745242152	0.43764444501461	4.08864900400019	4.33892800838496e-05	0.00168400887328204
ENSBTAG000000020747	649.36675482852	2.7872310845565	0.682432551579854	4.08425869795332	4.42177480859242e-05	0.00171142228848587
ENSBTAG000000015145	1836.20520929317	2.394360557439	0.5867099352747	4.08095541780888	4.484322329347077e-05	0.00173085020638427
ENSBTAG000000015711	433.4587158624	1.82177261709777	0.446586591195522	4.07932672635972	4.51663204039549e-05	0.00173853108565882
ENSBTAG000000053703	93.4251654913039	1.61565850457639	0.396190785962275	4.07798101778731	4.54284744714934e-05	0.00174033916518573
ENSBTAG000000003043	362.779313174625	1.76723861213557	0.433379246296522	4.07781089481707	4.54617182540845e-05	0.00174033916518573
ENSBTAG000000014576	34.6934537455136	2.46498152999901	0.60461324441965	4.07695589329187	4.56291440006531e-05	0.00174198892871113
ENSBTAG000000045877	5397.81895400995	1.0145050517989	0.249042157907903	4.07362777580037	4.62864380456877e-05	0.00175750483321987
ENSBTAG000000015938	288.18132181974	2.43741672487205	0.599261685346075	4.06736620156925	4.7547492350393e-05	0.00180050787924691
ENSBTAG000000026753	831.455742576512	3.95230165760941	0.972365605391549	4.0646251118867	4.81097269857394e-05	0.00181688782964203
ENSBTAG000000013689	423.712740347346	2.37368224990764	0.584118028842415	4.06370310913313	4.83002547117742e-05	0.00181917975474911
ENSBTAG000000006608	280.36629426724	2.50350903051378	0.616172061967015	4.06300315292093	4.84453749587662e-05	0.0018197537494565
ENSBTAG000000004349	4514.91530082996	0.786819816572202	0.193761962973436	4.06075477610676	4.89143270670319e-05	0.00183245624742295
ENSBTAG000000024901	24.6583156325969	2.3737958355006	0.584712487314474	4.05905403944896	4.92719111946637e-05	0.00184018756385119
ENSBTAG000000021527	116.551542877084	1.63106290657083	0.401885511727952	4.05852626923	4.93833790598848e-05	0.00184018756385119
ENSBTAG000000016683	5984.48816109308	1.79487538083633	0.442353213391019	4.05756152889013	4.95877554545453e-05	0.00184290196733781
ENSBTAG000000020237	443.599432810333	0.795060253962041	0.196096233253925	4.0543771679746	5.02680553144745e-05	0.00186324265346852
ENSBTAG000000020892	492.522086059366	2.37148672865892	0.585349687050865	4.05140171955511	5.09117105478973e-05	0.001882121309991
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ENSBTAG000000013953	193.575178080169	2.27311194498774	0.561365463149041	4.04925560502745	5.138092166212993e-05	0.00188949630665623
ENSBTAG000000008952	169.568723503977	2.32310321221513	0.573995309697658	4.047250512108832	5.1822615694821e-05	0.00190075044017046
ENSBTAG000000011001	28.5723343713337	2.55563458695017	0.631776329256088	4.04515723145152	5.22880188123578e-05	0.00191281313728445
ENSBTAG000000009513	4635.93303692386	1.96532663299043	0.48593172593041	4.04445013181108	5.2446069758499e-05	0.0019135986546519
ENSBTAG000000005647	432.077789495374	1.70997472781277	0.423045958821295	4.04205427383984	5.29849846373906e-05	0.00192631141103917
ENSBTAG000000021176	543.733109925961	3.55618588743589	0.879877986519345	4.04168071246286	5.30694600429034e-05	0.00192631141103917
ENSBTAG000000008732	35.0700814016037	1.57092910315046	0.38881800349489	4.04026842643644	5.33900594627777e-05	0.00192853561453456
ENSBTAG000000025263	42.9670606448414	1.21588202646302	0.301044872591469	4.03887306233254	5.37086191747556e-05	0.00193447676929949
ENSBTAG000000008306	756.447744971929	1.49526975664684	0.370340818700713	4.03755049711446	5.40122297790559e-05	0.00193546093436152
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ENSBTAG000000013996	779.804496273066	1.06737398178374	0.264936827283483	4.02878675919844	5.60654436799189e-05	0.0019968636144269
ENSBTAG000000011936	208.574218729105	2.5303708986538	0.62853397702324	4.02582993307336	5.67747127280261e-05	0.00200370403030825
ENSBTAG000000004608	91.2224063663617	2.20096872468256	0.54781405827181	4.01772954061449	5.87615852393314e-05	0.00205827142697068
ENSBTAG000000000539	138.619933520003	1.67710096919272	0.417415794040381	4.01781866699199	5.87393703025391e-05	0.00205827142697068
ENSBTAG000000018744	298.864044649526	1.51627397816416	0.377501899646739	4.0165995974671	5.90439166913943e-05	0.00206300328369857
ENSBTAG00000001077	67.4786758749766	1.45460784958853	0.362265794222931	4.01530553749547	5.93688328870828e-05	0.0020691958148779
ENSBTAG000000004714	1182.68967015542	2.41243228769455	0.600937609834999	4.01444717090837	5.95828721788916e-05	0.00207158674745382
ENSBTAG000000006155	86.3888081284261	2.57964046151084	0.643081558777673	4.01137371504487	6.0366469207178e-05	0.002093528415945
ENSBTAG000000010868	181.225612232972	0.952270365205735	0.237675635881895	4.00659647621153	6.1599970573448e-05	0.00212580588104577
ENSBTAG000000046533	3167.53381831388	2.5354934169315	0.633092989555692	4.00493049008634	6.20357201093636e-05	0.00213558347531276
ENSBTAG000000023648	221.254161951508	2.40837835275448	0.60172617966076	4.0024490111304	6.26901811037636e-05	0.00215282384177655
ENSBTAG000000014705	22.4352997144942	1.89820776537184	0.474463820668173	4.00074290743318	6.31449319027788e-05	0.00215782836558496
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ENSBTAG000000010328	52.1181138011016	2.34536736265184	0.586736513679544	3.99730936795387	6.40665479754459e-05	0.00217607578359034
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ENSBTAG000000015183	356.679553546979	1.1313457239214	0.283082913461479	3.99651716907794	6.42812216207695e-05	0.00217607578359034
ENSBTAG000000010888	3120.17695412841	1.58063859475414	0.395376432598282	3.99780680999802	6.39320959027025e-05	0.00217607578359034
ENSBTAG000000046407	62.30908827334					

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Ensemble id	baseMean	log2Fold Change	lfcSE	stat	pvalue	padj
ENSBTAG00000007622	6041.99447736258	1.24606400565845	0.311896108947227	3.99512520327492	6.46600729786045e-05	0.00217811451472909
ENSBTAG00000004475	19.3371626198415	1.70547997098742	0.426955550308356	3.99451411219665	6.48270603388669e-05	0.00217815813527066
ENSBTAG00000001775	385.685692372691	1.70026407629503	0.425853397630546	3.99260422895607	6.53515921951314e-05	0.00219052908671289
ENSBTAG00000001509	278.926985814509	2.48005704740107	0.62132298829531	3.9915745821758	6.56360391442987e-05	0.00219327537616946
ENSBTAG00000005564	427.531848086225	0.817049513691928	0.204744224405642	3.99058638192976	6.5910137822795e-05	0.00219327537616946
ENSBTAG00000005471	4.31605087207373	4.05716199102306	1.01750541227288	3.98736158263794	6.6812160503155e-05	0.00220779523775874
ENSBTAG00000006572	401.834560852833	1.24750166841254	0.312915509700662	3.98670449287065	6.6997385005123e-05	0.00220870673248654
ENSBTAG00000001236	384.788330269026	2.0293155300701	0.509161559453765	3.98560239356477	6.73091429731688e-05	0.0022137755920119
ENSBTAG00000003587	500.733840223153	0.934271959671307	0.234578526738651	3.98276846845492	6.81171090903847e-05	0.00222988040996584
ENSBTAG00000001578	2200.58057402158	1.67030403793279	0.419347741524527	3.98310011605273	6.802220827463241e-05	0.00222988040996584
ENSBTAG00000000377	183.93023676333	5.16043194397119	1.29609593660837	3.98152003892169	6.84759467661459e-05	0.00223640204791951
ENSBTAG00000021535	48.0602941217739	1.94423698436064	0.488773643719708	3.97778605565643	6.9559915350234e-05	0.00224976467002411
ENSBTAG000000011007	147.411377782402	1.39956506480801	0.352062629634126	3.97532980499089	7.02817907229471e-05	0.00224976467002411
ENSBTAG000000010068	156.982407275406	1.68621680509788	0.424048480809583	3.97647175124551	6.99453033718413e-05	0.00224976467002411
ENSBTAG000000038079	183.391105866041	1.98189094276689	0.498264828512669	3.97758547133034	6.96186016715092e-05	0.00224976467002411
ENSBTAG000000014642	197.322769027295	2.27552004519399	0.572150170584821	3.97713775540445	6.97497619775941e-05	0.00224976467002411
ENSBTAG000000021807	448.280969261224	2.41335109121301	0.606949169578492	3.9761996756483	7.00253349334984e-05	0.00224976467002411
ENSBTAG000000023929	465.103279487395	1.83016697387646	0.460149609300474	3.9773027886019	6.96933327790068e-05	0.00224976467002411
ENSBTAG000000019015	4249.14403031331	2.64434512514769	0.665216306036094	3.97516582373765	7.03302532059497e-05	0.00224976467002411
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ENSBTAG000000010047	160.766597202109	2.85684941616636	0.719266851780012	3.97189083453011	7.13043963123142e-05	0.00227055885620871
ENSBTAG000000020000	746.148627022621	1.84693590217695	0.465649212869134	3.9755355855349	7.29763153833968e-05	0.0023132831557393
ENSBTAG000000011465	81.8644322863034	2.68486149719302	0.677411500354023	3.96341292669209	7.38858199776894e-05	0.00233682669008444
ENSBTAG000000048737	103.761550337303	2.95911103089145	0.746815948357353	3.96230294411912	7.42302678507869e-05	0.0023398063849365
ENSBTAG000000016932	237.710974096117	0.589784008900669	0.148858905281256	3.96203376470036	7.4314027642334e-05	0.0023398063849365
ENSBTAG000000037929	11.2252549011628	2.99084038159809	0.75533277032582	3.9596301030824	7.50659410634499e-05	0.00235290581709172
ENSBTAG000000000163	1160.09074066925	1.73813053501917	0.438962458048638	3.9596336842696	7.50648154637878e-05	0.00235290581709172
ENSBTAG000000022847	222.28735946019	0.724665245560304	0.183134794527447	3.9570047157352	7.58954330982218e-05	0.00237359578825711
ENSBTAG000000008649	399.425159074258	1.06995538131209	0.270562875295451	3.95455355855349	7.66776943869376e-05	0.00239271976849751
ENSBTAG000000016944	275.884150551968	1.76753167262542	0.447044480848028	3.95381611528337	7.69145295913148e-05	0.0023947766091198
ENSBTAG000000017147	828.424858264039	1.30148583540996	0.329289588772365	3.95240505556848	7.73696307684017e-05	0.0024036050924525
ENSBTAG000000002966	44.0863197999069	4.84402585876284	1.22624936614247	3.9502779716014498	7.80604817151246e-05	0.00241970223298808
ENSBTAG000000010773	72.9963384902646	1.06169729860212	0.268835881206396	3.9492395438279	7.83998651526569e-05	0.00242485763941253
ENSBTAG000000010756	59.6528619459418	1.60154054155655	0.405684748303148	3.94774649097678	7.8890276696266e-05	0.00243465124843917
ENSBTAG000000005432	921.408421352025	2.31766059319002	0.587615551616087	3.94417844595141	8.00740174896492e-05	0.00246575177812632
ENSBTAG000000004659	290.834711156925	1.01692601131771	0.258080722746015	3.940348389376263	8.13659208053658e-05	0.00249456874486648
ENSBTAG000000006526	341.535121776083	1.68155932739196	0.426747980247367	3.94040371653835	8.13445953135e-05	0.00249456874486648
ENSBTAG000000020430	10.6683673927641	2.72896766182837	0.692682023751908	3.93971197209209	8.15794936706326e-05	0.00249565564589352
ENSBTAG000000031682	32.9436516059328	2.01674264029649	0.512052829621433	3.93854407910896	8.19775352559205e-05	0.00249735523860158
ENSBTAG000000021741	71.7434395938385	1.70913005822052	0.433954224723012	3.93850309744405	8.19915359186872e-05	0.00249735523860158
ENSBTAG000000017694	264.56597172731	0.938320507576061	0.23834980340475	3.93673707371458	8.25970184181833e-05	0.00250490654774278
ENSBTAG000000018819	13.0974057350906	2.2059059899807	0.561425131415292	3.92911871333556	8.52577448475213e-05	0.00257445315314358
ENSBTAG000000000224	41.4865102670254	2.13344514563078	0.543292212768367	3.92688325207259	8.605368899464e-05	0.00259289943311412
ENSBTAG000000012066	269.971750801574	1.20782921989452	0.307678745646568	3.9256179927422	8.65073517609657e-05	0.00260097533374011
ENSBTAG000000005761	855.155619348772	1.30526785434534	0.3325784568933	3.92469153455753	8.68409419946084e-05	0.00260541421474616
ENSBTAG000000003033	64.9775784017145	3.11965299727725	0.795582173268782	3.92122033662423	8.81016573149694e-05	0.0026194315988941
ENSBTAG000000010388	180.405851400271	2.3111464510222	0.589162885007093	3.92276313483649	8.7539200336406e-05	0.0026194315988941
ENSBTAG000000015919	71.825134846975	2.19290141600818	0.560215240778814	3.91439085619947	9.06327220675101e-05	0.0026737909239555
ENSBTAG000000018299	113.205892906378	0.895240454701372	0.228664370977763	3.91508502559164	9.03723546825633e-05	0.0026737909239555
ENSBTAG000000015081	355.678077660384	0.542154409355576	0.138486870930699	3.91484337621346	9.04629176782517e-05	0.0026737909239555
ENSBTAG00000004556	8590.70160012924	1.79774914571506	0.459611041172974	3.91145769937777	9.17407259708572e-05	0.00270037670499513
ENSBTAG000000055296	983.746781324149	1.73748905614519	0.44456578304981	3.9082833686067	9.29542432167961e-05	0.00273036038094451
ENSBTAG000000002702	378.256445626451	1.911362721383	0.489183844377174	3.90724825309089	9.33532251182801e-05	0.00273634317391678
ENSBTAG000000017367	434.02556739114	1.84636678375732	0.47305058445248	3.90310644239949	9.49659127291783e-05	0.00277780251200108
ENSBTAG000000015276	50.16683286623	1.20969083984172	0.31008033926544	3.90121748030657	9.57101164794368e-05	0.00279187749490082
ENSBTAG000000051385	99.4396972486102	1.54381276596067	0.395760632964337	3.90087501729811	9.58456266538645e-05	0.00279187749490082
ENSBTAG000000019272	650.148766137196	3.52045454090048	0.9030389369661	3.8984526544647	9.68093238214512e-05	0.00281409841506712
ENSBTAG000000035868	59.4056890715967	3.01475602427928	0.773618304011719	3.89695539602126	9.74095508281868e-05	0.00282320956544406
ENSBTAG000000014261	3662.12584787009	1.93897984650495	0.497599637234767	3.89666651945355	9.7525760450712e-05	0.00282320956544406
ENSBTAG000000007208	39.7480057241147	2.11685809781791	0.54346767168595	3.89509479239304	9.81603336687505e-05	0.00283572048460384
ENSBTAG000000014560	124.370083214672	1.77763933212309	0.4566323246069951	3.892932534372848e-05	9.90392534372848e-05	0.00284936133505092
ENSBTAG000000054018	10.5178541246808	2.22508038826578	0.571898423107058	3.89069159550602	9.99589137206637e-05	0.00286297980123787
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ENSBTAG000000027760	201.849607848637	1.93942433160032	0.498966414336988	3.88688351735531	0.000101539447728511	0.00287989717029183
ENSBTAG000000036224	483.658887597282	1.56984364476604	0.404214758524039	3.88368710360356	0.000102884292283354	0.00291214508925671
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ENSBTAG000000012519	5912.0855332134	1.57630900061072	0.406286270373125	3.87979884026863	0.000104542887771377	0.00294814441803422
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ENSBTAG000000011192	43.302808543551	0.627180118603326	0.7544556232543	3.87568626210274	0.000106333597390743	0.00298565132882103
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ENSBTAG000000017722	893.296408369445	1.85497957303652	0.478847167078299	3.87384472660606	0.000107133752412605	0.00299032490073031
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ENSBTAG000000017839	64.5964217703887	2.24278837813809	0.579314011506277	3.87145544351746	0.000108187438988248	0.00299704147021933
ENSBTAG000000012595	1882.39666033123	1.94929922447693	0.503519930878696</			

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Ensemble id	baseMean	log2Fold Change	lfcSE	stat	pvalue	padj
ENSBTAG00000004558	516.773432060466	2.39247401413411	0.61831495861566	3.86934519502909	0.000109128044607496	0.00300901008068398
ENSBTAG000000017801	1050.50315010713	0.993181002668428	0.256775347304839	3.86789858564319	0.000109777299393151	0.0030158622388185
ENSBTAG000000008338	5.97129455051828	2.97374081281233	0.769039577717596	3.86682415180502	0.000110261874170756	0.00302324680823182
ENSBTAG000000048087	3.2129509998028	4.6259530370575	1.19660288225133	3.86590497622243	0.000110678027640077	0.00302531985421906
ENSBTAG000000007962	64.3707377779682	3.23298949916507	0.836456657827983	3.86510104129021	0.000111043220604038	0.00302531985421906
ENSBTAG000000003196	395.984032478929	1.81072330366251	0.468522256398356	3.86475408357754	0.000111201179424939	0.00302531985421906
ENSBTAG000000019040	1230.37885977669	1.09790251344765	0.284362402004884	3.86092713279582	0.000112957589481065	0.00306714881050233
ENSBTAG000000019155	181.132610182882	0.701773250837368	0.182204723452011	3.85156453434206	0.000117365591311707	0.00315020938672092
ENSBTAG00000002363	204.196336489222	2.34172348576339	0.607941721554547	3.85188810495758	0.000117210582255543	0.00315020938672092
ENSBTAG000000016069	877.565074371922	0.78658087117533	0.204223549956408	3.85156790851606	0.000117363973890063	0.00315020938672092
ENSBTAG000000011182	605.029903191618	1.94634481538677	0.505422962778581	3.85092280866439	0.000117673587120186	0.00315243714940903
ENSBTAG000000014821	407.857339082082	1.35053381235576	0.350870075365804	3.84909944499469	0.000118552874028272	0.00316252736576913
ENSBTAG00000001321	2235.60742003096	3.49682909072438	0.908485983386943	3.84907324347239	0.000118565554315445	0.00316252736576913
ENSBTAG000000014269	1002.89263869426	1.67952464237336	0.43649471943949	3.84775477817935	0.000119205282522484	0.00316923190402756
ENSBTAG000000009784	341.655972721075	1.66066182586777	0.431888324605119	3.84511859028867	0.000120494150415525	0.00319138665684674
ENSBTAG000000009995	647.795141994361	1.06436216168629	0.276794921093063	3.84530957968131	0.000120400333407842	0.00319138665684674
ENSBTAG000000012815	437.467694553906	2.02405198409661	0.526986173572855	3.84080661998011	0.00012263069265946	0.00322941986188295
ENSBTAG000000045854	449.110571635133	2.69635771493028	0.702109964871525	3.84036383164519	0.000122852100948084	0.00322941986188295
ENSBTAG000000038186	676.47540067307	1.44755326608306	0.37691052513406	3.84057533434015	0.000122746295883935	0.00322941986188295
ENSBTAG000000015188	3032.4528703875	1.60479513792059	0.417832253090954	3.84076414888743	0.000122651913238392	0.00322941986188295
ENSBTAG000000052972	6.33069602502129	2.48954019259924	0.648601334273686	3.8383211088936	0.000123878415841597	0.00323758970255012
ENSBTAG000000039377	39.6004782248195	2.54931781887469	0.664075095715893	3.8388990050967	0.0001238758970255012	0.00323758970255012
ENSBTAG000000025257	254.236377580766	2.78425259227571	0.725461094676606	3.83790752213509	0.000124087193652802	0.00323758970255012
ENSBTAG000000019202	626.7971750749114	1.44204230349276	0.375673664568919	3.83855042154068	0.000123762801993983	0.00323758970255012
ENSBTAG000000044001	21.9218690304198	1.69853355665645	0.442678529088237	3.83694587617529	0.000124573913637336	0.0032442740515376
ENSBTAG000000014906	1345.491344349917	1.556043164446135	0.405653249762674	3.835894736367144	0.000125107989092284	0.00325211138250833
ENSBTAG000000005373	318.326696102053	1.31218760901823	0.342265195832848	3.83383301894086	0.000126161800926738	0.00326738076300283
ENSBTAG000000034875	116.435029909706	1.87407501525593	0.489022004809351	3.83229179224061	0.00012695503274995	0.00328185786689953
ENSBTAG000000021318	25.7503732796779	1.67734433601122	0.438187051062023	3.82791853831801	0.000129231510422028	0.00332842406713794
ENSBTAG000000050944	131.552345583905	4.01496530503494	1.04942136608395	3.8258848493025	0.000130303192429284	0.00334373265407821
ENSBTAG000000003876	170.553380728513	1.63397199818484	0.427058663741797	3.82610666147907	0.000130185899653481	0.00334373265407821
ENSBTAG000000018138	43.0037872739917	1.3795630911012	0.360647448815126	3.82524012199068	0.00013064468552174	0.00334636689002761
ENSBTAG000000015792	37.2656130812545	1.56898296745686	0.41036538442562	3.82338039952598	0.000131634456862596	0.00336461594984089
ENSBTAG000000002171	61.5751784663769	2.14368900756049	0.560931781757174	3.82165724474583	0.00013255784771338	0.00336461594984089
ENSBTAG000000016374	196.502727632798	1.35813968252453	0.355335432182854	3.82213412881842	0.000132301689785027	0.00336461594984089
ENSBTAG000000005246	680.747221333035	0.898239013280735	0.234964363992365	3.82287338393971	0.000131905521200597	0.00336461594984089
ENSBTAG000000018984	2268.19565192135	1.63052778184239	0.426613651205282	3.82202439428689	0.000132360592258932	0.00336461594984089
ENSBTAG000000023026	8.69027074211222	3.95524666599061	1.03561385520602	3.81922919059804	0.000133869338179262	0.00338344224494535
ENSBTAG000000014466	9.09558867975078	2.88800926023101	0.756188540189014	3.81916560056456	0.000133903849462021	0.00338344224494535
ENSBTAG000000014324	761.132837987272	1.20457006227591	0.315419646040332	3.81894430926438	0.000134024012985844	0.00338344224494535
ENSBTAG000000033961	36.9041300913586	2.54506212505617	0.666527708351836	3.81838908295276	0.000134325954166433	0.00338496572630555
ENSBTAG000000003289	35.2763719649129	2.05250638156319	0.537601224493533	3.81789751966586	0.000134593809121733	0.00338562631885924
ENSBTAG000000009384	500.786067986826	1.50888567362594	0.395379097328664	3.81630107362925	0.000135467194637951	0.00339540405021883
ENSBTAG000000000711	601.403185674171	1.74496934923442	0.457216230237529	3.81650788802463	0.000135353750093741	0.00339540405021883
ENSBTAG000000002555	57.6227932500091	2.1532165742662	0.564395820296134	3.81508242413352	0.000136137485377591	0.00340611126361685
ENSBTAG000000020699	4.7426998263835	4.73995854601467	1.24398385974435	3.81030550266847	0.000138795170426646	0.00346641556657349
ENSBTAG000000005163	84.4466028126957	1.91328452122572	0.502816737199683	3.80513292354049	0.000141728058418353	0.00350839545317941
ENSBTAG000000046750	180.161291534547	2.39059821735329	0.628146827417585	3.8057952583816	0.000141349277900293	0.00350839545317941
ENSBTAG000000003961	388.81439323277	1.176172087936014	0.309091819774393	3.80525142591781	0.000141660218335484	0.00350839545317941
ENSBTAG000000034858	26.1630920728586	2.36200987881019	0.620858404736323	3.80042460914616	0.000142133364981622	0.00351222323943123
ENSBTAG00000005622	1611.52381173907	1.66370984729701	0.437370473846824	3.80389154453913	0.00014244056294163	0.00351361747777319
ENSBTAG000000007470	23.3833681942675	2.02817893685067	0.53334169644977	3.80277587447047	0.000143083792346664	0.00351795496884244
ENSBTAG000000003489	239.74002293709	1.93897813222728	0.509893006570422	3.80271568199961	0.000143118573423752	0.00351795496884244
ENSBTAG000000005078	23.7601764065994	2.40823012663864	0.633604606093341	3.800840620368755	0.00014420035618061	0.00353847769710097
ENSBTAG000000052312	47.6664128648521	2.35072249901904	0.618646366969628	3.79978389032461	0.000144822324786838	0.00354119649666385
ENSBTAG000000005133	742.448021960018	1.08265991078176	0.284895224194918	3.79020379015211	0.000144577142096126	0.00354119649666385
ENSBTAG000000012325	131.07624590897	2.01001952796768	0.529366360081347	3.7970220234448	0.000146440543859513	0.00357452693382515
ENSBTAG000000053356	13.4595172991624	4.30359469769375	1.13359408910574	3.79641596498507	0.000146803094810315	0.0035771446284997
ENSBTAG000000008597	202.522110196231	1.95557667991672	0.515695598052408	3.79211435448008	0.000149370099406378	0.00363337580344229
ENSBTAG000000003825	618.542555336413	1.48917928075386	0.392777794960911	3.79140394355047	0.000149798084797573	0.00363471373413726
ENSBTAG000000007662	4820.70270335021	0.930537041795191	0.245449013779059	3.791162276304	0.000149943939642519	0.00363471373413726
ENSBTAG000000001839	125.111010568119	1.56718624608125	0.413574854112611	3.78936540869703	0.000151032613876895	0.00364847922936066
ENSBTAG000000018474	2997.03146080072	1.70012631301378	0.448728737411739	3.7887618315245	0.0001513999771740369	0.00365105852677163
ENSBTAG0000000004139	386.141056535088	1.31068020924385	0.346229173353695	3.78558570483288	0.000153346971089873	0.0036853248913569
ENSBTAG000000002252	125.972637998838	1.66261526047633	0.439391583350904	3.78390329600043	0.000154387830394415	0.00370398611584956
ENSBTAG000000046548	620.701212671168	1.11166397776891	0.293921099502366	3.78218501377087	0.000155457745294897	0.00372327943474666
ENSBTAG000000017365	46.8329302741424	1.58475381136736	0.419204141917603	3.78038681611798	0.000156584891540481	0.00373749730046624
ENSBTAG000000002223	201.506054838294	1.05340470978548	0.278718271777974	3.77948053936721	0.000157168497456387	0.00374504370928816
ENSBTAG000000012564	933.09602435103	0.540195335126664	0.142947756981506	3.77897034926229	0.000157478172238586	0.00374605546898953
ENSBTAG000000016208	177.822630660358	1.9629442558372	0.519672144075995	3.777274341551129	0.000158554051637631	0.003765247336097205
ENSBTAG000000010785	297.721073881638	1.49716028015339	0.396404176039592	3.77685294618051	0.00015882243882196	0.003765247336097205
ENSBTAG000000014354	439.947682079593	1.4685807030986	0.388916082255827	3.77608633353601	0.000159311791977246	0.00376735229662155
ENSBTAG000000005146	1972.88709034749	2.13958715153318	0.566647193686956	3.77587178648447	0.000159448998065561	0.00376735229662155
ENSBTAG000000007881	472.939742585376	2.31100288407989	0.612160705193787	3.77515718417162	0.000159906799516114	0.00377180836367049
ENSBTAG000000037778	243.550316163465	3.68252512760394	0.975739794029096	3.77405605959984	0.000160595741018098	0.00377543111426919
ENSBTAG000000000957	689.970192491401	0.646889792377157	0.171403313072076	3.77407986335208	0.000160599310834661	0.00377543111426919
ENSBTAG000000003353	11.9399597374697	3.05823161419151	0.810618270575465	3.77271488344378	0.000161480785334777	0.003789794444419
ENSBTAG000000021416	44.894739706824	1.67033431098941	0.44281163			

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Ensemble id	baseMean	log2Fold Change	lfcSE	stat	pvalue	padj
ENSBTAG000000011765	1255.68327422463	0.898463814221841	0.238240288945157	3.77125052273869	0.000162431498496453	0.00379588556441994
ENSBTAG000000054765	23.7437733057016	3.43795144271275	0.911997829364072	3.7696925716479	0.000163448754666726	0.00381045008591596
ENSBTAG000000048552	61.9261143704573	0.834973722991267	0.221594056058245	3.76803303231112	0.000164538933867808	0.00381188641067514
ENSBTAG000000002647	407.887168424403	1.50289710782332	0.398951395367758	3.76711831384356	0.00016514274864605	0.00381188641067514
ENSBTAG000000008683	3462.40032251184	1.06856675336298	0.283637397775923	3.7673690484467	0.000164977029161626	0.00381188641067514
ENSBTAG000000018073	5920.72264186334	1.87530602623268	0.497775115243245	3.76737600736888	0.000164972431992772	0.00381188641067514
ENSBTAG000000023666	13.6411795623552	2.53901272445577	0.674541557335053	3.76405678322738	0.000167178895598134	0.00385253866155502
ENSBTAG000000019033	157.763080778775	1.75447943138683	0.466364485684673	3.76203481448864	0.000168536580520074	0.00387744832457596
ENSBTAG000000017086	17.4379759194306	1.95037952487775	0.518590493147491	3.7609241793853	0.000169286741553742	0.00388832219001554
ENSBTAG000000033334	47.1574278535055	1.79800103480357	0.478141252934556	3.76039721268239	0.000169643770552424	0.00389014544878889
ENSBTAG000000017970	6539.95643421532	1.38495994024224	0.368657812304678	3.7567627594384	0.000172125530787826	0.00393417750712598
ENSBTAG000000004283	25.670067783404	1.35279539811812	0.360303002271259	3.75460484533973	0.000173615161309753	0.00396176225588104
ENSBTAG000000009214	309.261191593247	2.5694177982275	0.684785926627312	3.75214749357119	0.000175326259084102	0.00399430279028838
ENSBTAG000000019708	600.818326825159	2.03134793054899	0.54154768085919	3.75100476347007	0.000176127353183501	0.00400603952184096
ENSBTAG000000002493	245.353980354745	1.42785566445381	0.380799552280609	3.75065237613918	0.000177093897360333	0.00401510228828126
ENSBTAG000000017574	113.715968041667	1.77810878364979	0.474271443160308	3.74913735434156	0.000177443885607241	0.00401642371767861
ENSBTAG000000004783	539.786260971337	1.08026698103558	0.288403310458339	3.74568162660403	0.000179904631567658	0.00406555450466847
ENSBTAG000000016618	210.412388818889	0.610875425127351	0.16311865725368	3.74497580725744	0.000180411159727747	0.0040704360047431
ENSBTAG000000031575	188.222644264384	1.73401860159138	0.463146206723141	3.74399828049965	0.00018111489239137	0.00407973439820641
ENSBTAG000000012293	639.398926652097	0.424300853509624	0.113424226965261	3.7408309041381	0.0001834128930302	0.00412487647551547
ENSBTAG000000048980	17153.5466754719	1.62180261445686	0.433776247280972	3.73879995710376	0.000184900782472766	0.00415167464029796
ENSBTAG000000014861	32.8627965316355	1.32800181694933	0.355359519025454	3.7370655150479	0.000186180398014583	0.0041659683794496
ENSBTAG000000012391	70.7776029988616	0.896371081328987	0.239867888043773	3.73693656386974	0.000186275894746891	0.0041659683794496
ENSBTAG000000005181	262.919363919585	0.8993609222749	0.240681310728675	3.73672936860797	0.000186429389330876	0.0041659683794496
ENSBTAG000000000515	166.016586031425	1.70035539163889	0.455244508379043	3.73503767830879	0.000187687084515109	0.00418739449226304
ENSBTAG000000009183	784.862998828776	1.68453407350905	0.451264496958157	3.73291957347412	0.00018927304451062	0.00420937242323539
ENSBTAG000000016896	1845.34794769917	1.22227485062023	0.327546093193627	3.73161175180829	0.000190258574484618	0.00422458460713785
ENSBTAG000000018189	18.6531309022338	4.71769657512542	1.26478850220511	3.73002803781052	0.00019145846396495	0.00424450085223563
ENSBTAG000000008310	579.227246102446	0.784199057156769	0.210306120531466	3.72884562358439	0.00019235894656919	0.00425772697249305
ENSBTAG000000010913	139.821120736106	2.04827709441774	0.549535817461701	3.72728588261763	0.000193552871645622	0.00425787892175242
ENSBTAG000000019927	245.997921629334	1.69964568547805	0.456005436220466	3.72724873537762	0.000193581391275162	0.00425787892175242
ENSBTAG000000050334	678.449538567747	1.88137453881269	0.504704883360373	3.72767254853236	0.000193256244957406	0.00425787892175242
ENSBTAG000000050839	34.2940673623443	1.51116822850678	0.40560599248576	3.72570488726158	0.000194770172462334	0.00427731173412189
ENSBTAG000000015994	13.4086834653797	3.15401736008055	0.846751077008546	3.72484599750762	0.000195434494037891	0.00427848858744514
ENSBTAG000000008931	927.368773008315	1.79143115260572	0.480939205415563	3.72485988339796	0.000195423736868487	0.00427848858744514
ENSBTAG000000031981	263.8979997735	0.689506477988196	0.18515557456538	3.72393042773187	0.000196144999882789	0.00428734413940368
ENSBTAG000000005504	77.909797712034	2.70318433217515	0.726418600431078	3.72124878213609	0.000198240017012709	0.00432638766100478
ENSBTAG000000016799	98.5475931050536	1.02836852663397	0.276506007145742	3.71915437660611	0.000199890860124198	0.00433813929671717
ENSBTAG000000001390	166.863697313046	0.781493418028033	0.21008331685992	3.71992136124316	0.000199284817674276	0.00433813929671717
ENSBTAG000000006724	336.422343372159	1.00177533849264	0.269362770811084	3.71905640663025	0.000199968396914518	0.00433813929671717
ENSBTAG000000051633	1033.114344071	2.35861115084943	0.63422416850475	3.71889194385339	0.000200098621917536	0.00433813929671717
ENSBTAG000000015743	60.5461629404265	1.41172024744697	0.379756992969924	3.71743055053738	0.000201259287761474	0.00435161092720063
ENSBTAG000000000813	76.4079317296895	1.35035932400954	0.363418513890965	3.71571417634128	0.000202630540148421	0.00437172983865706
ENSBTAG000000015520	1198.038351659	1.61825062498265	0.435542160537844	3.71548559841899	0.000202813817366861	0.00437172983865706
ENSBTAG000000012280	53.7103053727442	1.25778398654827	0.338696850793469	3.71359811466106	0.000204333193514012	0.00439141956386765
ENSBTAG000000019251	184.137993295233	1.59079475380253	0.428373184348093	3.71357221209687	0.000204354118595511	0.00439141956386765
ENSBTAG000000003746	1880.52637098074	0.516112797602016	0.139015889158741	3.71261731824534	0.000205126924736016	0.0044012761753083
ENSBTAG000000004189	1596.51932637415	0.772716416405951	0.208189526685209	3.71160081253429	0.000205952610170675	0.00441223550627114
ENSBTAG000000014614	45.0001198526289	2.06589938574595	0.556952799811461	3.70928988317376	0.000207841358201053	0.0044459011751984
ENSBTAG0000000001497	48.841944749559	1.77943697513664	0.479843850567399	3.70836673853903	0.000208060392208857	0.00444938189696917
ENSBTAG000000000880	282.639689424742	0.694882275228521	0.187384677354013	3.70831961844846	0.000208639205347897	0.00444938189696917
ENSBTAG000000019079	707.74164653252	0.798185525759757	0.215350247651969	3.70645278778466	0.00021018239535677	0.0044686882662171
ENSBTAG0000000004150	94.9041126524803	1.96712264602713	0.53108667773809	3.70395780667131	0.000212261578797028	0.00450605603109873
ENSBTAG000000006497	5.65689471092084	3.60409266454595	0.973308224286627	3.702930422489627	0.000213123230965152	0.00451068104236065
ENSBTAG000000018255	807.03710449421	2.2864643157391	0.617448144531506	3.70308719200052	0.000212991637069838	0.00451068104236065
ENSBTAG000000013749	588.78355580288	1.759023592679	0.45295359699264	3.70090490180487	0.000214831983728948	0.00453998631074835
ENSBTAG000000004037	4583.8316330596	1.47918282204557	0.399934172755215	3.69856572111752	0.0002168212123210988	0.00457512350043396
ENSBTAG00000001066	1520.32959266845	1.47469942915399	0.398810149612792	3.69774799007946	0.000217520677166435	0.00458298076357732
ENSBTAG000000006771	277.221076330814	1.40780202671629	0.381288692050403	3.69222076622769	0.000222304361011635	0.00466273413493116
ENSBTAG000000010254	35.0018406560527	1.93080257860907	0.523037508748176	3.69151838312745	0.000222919281326298	0.00466864282610279
ENSBTAG0000000046383	61.1318544732087	3.29793733176528	0.893712291117727	3.69015550590749	0.000224117006771289	0.00467973678371466
ENSBTAG000000000816	464.808105586986	1.69269854151565	0.458664752311202	3.6904918744817	0.000223820838723453	0.00467973678371466
ENSBTAG0000000012172	2051.68953336712	1.46830655065292	0.398085964868282	3.6884157700429	0.000225654701794729	0.00470483373328267
ENSBTAG000000016139	335.810682698967	2.04579330336038	0.5548055989681272	3.6874030585846697	0.00022655453836678	0.00471657223636991
ENSBTAG000000052758	76.523623604261	2.30442914514746	0.625284963639953	3.68540630136498	0.000228338077867294	0.00473667544697794
ENSBTAG000000013099	540.323679776634	1.01463514732299	0.275286782988491	3.6857386915136	0.000228040239455715	0.00473667544697794
ENSBTAG0000000002187	898.32976886984	1.06302401022609	0.288458583283958	3.68518765544812	0.000228534194715373	0.00473667544697794
ENSBTAG000000008059	13.370514646371	5.0775943604942	1.37806054402072	3.68459454305214	0.000229066989762354	0.00474070545757598
ENSBTAG000000012989	401.610893975256	1.99019208210446	0.540263000226133	3.6837467701313	0.000229830571677058	0.00474949283151513
ENSBTAG0000000047088	229.167590491258	2.20529065555238	0.59879617527731	3.68287364983766	0.000230619480389457	0.00475351188566521
ENSBTAG000000011677	367.137348167927	1.74279721619162	0.473228662014762	3.68278034718289	0.00023070393423192	0.00475351188566521
ENSBTAG000000007994	8.06727052883254	2.59679680607909	0.705341397078763	3.68161689762428	0.000231759482837331	0.0047559567889863
ENSBTAG000000007058	915.630861391561	0.801373367269903	0.21771554666905	3.68082748122747	0.000232478266037454	0.0047559567889863
ENSBTAG000000008635	1029.45601420612	1.55274177220982	0.421814121901148	3.68110428643663	0.000232225990197919	0.0047559567889863
ENSBTAG000000005158	1138.23098210464	1.103448445545996	0.299681286046069	3.68082748122747	0.000231344918469683	0.0047559567889863
ENSBTAG000000046979	1439.85452760061	1.08587240238423	0.295011309286006	3.68078228937151	0.000232519477585869	0.0047559567889863
ENSBTAG0000000039520	288.700064562768	1.69514867673821	0.460650664384728	3.679906064445549	0.00023332484377031	0.00476231412776688
ENSBTAG000000006550	1441.85954199656	1.06202299975656</				

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ENSBTAG00000017659	42.0367943426305	1.88328690752065	0.512037380863373	3.67802621040117	0.000235045811192316	0.00477971968159004
ENSBTAG00000038981	83.365540564649	1.75334387901703	0.476815007922958	3.6771994376912	0.000235808672362171	0.00478828305574838
ENSBTAG00000031998	288.080038369837	1.01713561131057	0.276901334611295	3.67327811091409	0.000239458616912601	0.00484134874684337
ENSBTAG00000015513	97.9574261278688	2.28692795794025	0.62273358330334	3.67240184126422	0.000240281456643468	0.00484603774945854
ENSBTAG00000017593	599.996974844657	2.33400628420052	0.635571625537891	3.6722946563658	0.000240382287907622	0.00484603774945854
ENSBTAG00000012962	5485.30504485318	0.87105751496788	0.237255999897346	3.67138245331945	0.000241242025980582	0.00485638222128438
ENSBTAG00000019672	105.619595122527	1.935847083257	0.527411206061851	3.67047013982099	0.000242104752806493	0.00486271039736114
ENSBTAG00000000336	95.794918557581	2.47730491973452	0.675380872173812	3.66801166838047	0.000244444031076253	0.00487878250628118
ENSBTAG00000019349	182.979415650071	1.7087820943922	0.465845221091017	3.66813271238503	0.000244328361078425	0.00487878250628118
ENSBTAG00000006654	606.943007150654	0.904849709704791	0.246673414381453	3.66820928787057	0.000244255211842671	0.00487878250628118
ENSBTAG00000019910	1662.57456431985	1.49153479733307	0.406520660957762	3.66902580995272	0.00024347650015687	0.00487878250628118
ENSBTAG00000046266	236.923616630378	2.65705155935952	0.724510411459967	3.66737526104735	0.000245053029256819	0.00488398007527352
ENSBTAG00000001112	63.198968384149	1.73431792513561	0.473107388860389	3.66580181576364	0.000246564823397741	0.00489322909437076
ENSBTAG00000046337	75.2337709652435	1.63423896920295	0.445724360967601	3.66647891009425	0.000245913189965692	0.00489322909437076
ENSBTAG00000011975	1751.136439057773	2.28317346041888	0.62280692339649	3.66594103990936	0.000246430702385733	0.00489322909437076
ENSBTAG00000008416	129.818223969093	1.36545498577464	0.372536905981046	3.66528782478296	0.000247060567745785	0.00489510885807452
ENSBTAG00000015312	270.436220675411	1.87911164969174	0.512720902364627	3.66497960396275	0.000247358295019396	0.00489510885807452
ENSBTAG00000014505	874.405299438524	0.640479590977049	0.174992758139646	3.66003483678988	0.00025218096100574	0.00497648935866397
ENSBTAG00000046185	330.278901360832	0.673038813723082	0.183991889043856	3.65798088829154	0.000254209997145375	0.00500947436006168
ENSBTAG00000002596	401.754281278995	2.06355791563301	0.564202026670934	3.65748050890388	0.000254706621398274	0.0050122113376562
ENSBTAG00000038797	21.8890133577709	1.61465270509177	0.441703180307568	3.65551523529318	0.000256665964079769	0.00504368418334031
ENSBTAG00000002549	19.5649921736371	1.79120362294469	0.490117811021251	3.654638910617	0.000257544192548177	0.00505385389606795
ENSBTAG00000052514	112.450676539938	2.36835984550793	0.648158672472693	3.65398157286511	0.000258204807037123	0.00505973084111487
ENSBTAG000000007184	653.872910660644	1.90939822716253	0.522626578667589	3.65346560067888	0.000258724463996531	0.00506283305175335
ENSBTAG00000012387	1245.1561653504	1.96616341591587	0.53838187662676	3.65198663118991	0.000260219434634086	0.00508498535377709
ENSBTAG00000000830	262.304665714749	1.09911968756681	0.301146303843417	3.64978641125314	0.000262458453009119	0.00512159524388666
ENSBTAG00000013555	184.336142308791	2.38205569404956	0.652828852064173	3.6488211060491	0.000263446469874739	0.00513372529821274
ENSBTAG00000027064	94.7837162673504	2.13820437624618	0.586522469802188	3.64556259365019	0.00026680746112682	0.00518196965089234
ENSBTAG000000025099	926.015783428935	0.860017919474376	0.235913779602763	3.645475567035884	0.000266897773363914	0.00518196965089234
ENSBTAG00000020116	33339.9635043996	1.52315995619539	0.417923128844986	3.6445935892683	0.000267814668088446	0.00518997415572228
ENSBTAG00000050727	5.8882864129268	4.16452406103615	1.14391652555995	3.64058387826646	0.0002720204699971316	0.00525101753410336
ENSBTAG00000014182	955.036779213485	1.40696193631158	0.386472895719019	3.64051904259412	0.000272088982211051	0.00525101753410336
ENSBTAG00000052721	20.1327472983392	3.42413913377671	0.941387863939357	3.63733086535444	0.000275477969208413	0.00528025273693087
ENSBTAG00000010801	115.809714182142	1.36250572832067	0.374493805046642	3.63825972542048	0.00027448654236704	0.00528025273693087
ENSBTAG00000006775	883.967644325071	1.06377908703154	0.292443419074316	3.6375552248663	0.000275238190193564	0.00528025273693087
ENSBTAG000000040190	946.302841046567	1.97834875533505	0.543902663199401	3.63732132455061	0.000275488170058987	0.00528025273693087
ENSBTAG00000000225	250.603584352167	0.62845134686728	0.172836683837791	3.6360993101273	0.000276797655654137	0.00529268177471664
ENSBTAG00000010910	482.254772370229	0.736258521706864	0.202505142494092	3.63575222159282	0.000277170650943407	0.00529268177471664
ENSBTAG000000031814	12922.3354192315	3.38817436732919	0.931928292104136	3.63565994941442	0.000277269889561203	0.00529268177471664
ENSBTAG000000054848	158.360406227581	2.12724633987647	0.585231498068961	3.63488012332823	0.000278109922450997	0.00530149404552205
ENSBTAG00000001338	177.36767581135	1.99317929400325	0.548434427306389	3.63430739348851	0.000278728388514014	0.00530229073178216
ENSBTAG00000018186	1097.7413919149	2.0299498095168	0.558577676412984	3.63414074115422	0.0002789085910587	0.00530229073178216
ENSBTAG000000015032	1345.646817177528	1.82613986146609	0.502679840636862	3.63280902443291	0.00028035251424485	0.005315316748423
ENSBTAG00000015844	6.97488297058525	4.66600406636508	1.28534283405142	3.63016305280808	0.000283242236520624	0.00536284726471684
ENSBTAG00000020257	162.619245298323	2.51378195505654	0.6926127958952	3.62941887581994	0.000284059982605563	0.00537107208675648
ENSBTAG00000008329	1623.09525566685	1.14371205371075	0.315213207395206	3.62837605429645	0.000285209619461128	0.00538554174968984
ENSBTAG000000000773	749.474644343609	0.817612695698401	0.225477358699069	3.62614100331741	0.0002878688304706385	0.00541774306080802
ENSBTAG00000016414	85.1328774042351	2.78850508300276	0.769179286679708	3.62529923945276	0.000288627046644118	0.0054281255711822
ENSBTAG000000021766	126.607901731092	1.92992942000543	0.532460074904679	3.62455235794144	0.000289462376963459	0.00543653802095848
ENSBTAG000000006045	3010.49566624325	0.746673918443185	0.206076497499121	3.62328517567303	0.00029088480724292	0.00545593980492711
ENSBTAG00000046509	52.2047631592516	1.90294801298616	0.52552896315915	3.62101453276112	0.000293450028562445	0.00548935694284168
ENSBTAG00000016566	86.3265659153682	3.07707786827542	0.849895347061339	3.62053737429549	0.000293991777910581	0.00549215840040687
ENSBTAG000000011970	108.61005362577	1.65281619547722	0.456621339811965	3.61966481057991	0.000294984880556779	0.00550337305123971
ENSBTAG000000030521	287.191191962441	1.02675937563568	0.283742965974198	3.61862494850019	0.000296172496312371	0.00551085371292515
ENSBTAG00000015318	304.19138250373	2.52569064302548	0.698168559485767	3.6175943598574	0.00029735393847439	0.00552549871613353
ENSBTAG000000054023	70.396882148834	2.13967365375966	0.59185332856809	3.61520929338408	0.000300105071120209	0.0055692346377361
ENSBTAG000000006045	226.140756809206	2.3383699749172	0.64709706460727	3.61363093928082	0.00030193873606407	0.00558108703432923
ENSBTAG00000010107	65.2416342718972	1.87611454930608	0.519269599777843	3.61298745412542	0.000302689354451367	0.00558758965114375
ENSBTAG00000011957	528.577882352081	1.06831066574643	0.295873835325017	3.61069664903927	0.000305375664114128	0.00562976109197769
ENSBTAG000000003109	5124.33318104376	1.27623133509651	0.35351251260712	3.61014473203346	0.000306026197734775	0.00563434041585012
ENSBTAG000000016204	65.6334816048738	2.1761800906665	0.603093064242152	3.60836530826481	0.000308132416318391	0.00566297418324788
ENSBTAG000000003752	257.241849553736	2.03726180108513	0.56462801217954	3.60814865210287	0.00030838978672601	0.00566297418324788
ENSBTAG000000010303	310.462986527457	3.19163111417792	0.885235500097743	3.6054034365155	0.000311668367344235	0.00571568782049748
ENSBTAG000000013577	409.481715804262	0.944918032389098	0.262175748540489	3.6041397331728	0.00031318853739778	0.00572901409481361
ENSBTAG00000014396	1097.93368669167	1.15809205811851	0.321324536403564	3.60411959534898	0.000313212818259027	0.00572901409481361
ENSBTAG00000021857	146.392502200317	1.5562833163596	0.432116745035412	3.60153438680574	0.000316344569273814	0.00577122885429089
ENSBTAG000000001233	201.479274661959	1.46921888937063	0.407909984509378	3.60182134579953	0.000315995503081194	0.00577122885429089
ENSBTAG000000001651	624.509224813967	0.714189530154342	0.198418496354894	3.59941005135395	0.000318939928924084	0.00581101085065713
ENSBTAG00000004636	363.594582571228	1.55496241518373	0.432199443750696	3.59778902464454	0.000320933775323143	0.00583974431954877
ENSBTAG000000021480	21.5885875251946	2.7122395749964	0.754374147285288	3.59535064232615	0.000323954946112227	0.00586504544963947
ENSBTAG000000012757	71.1565711651049	1.72452332892436	0.479543540172453	3.59617674821392	0.000322928426904473	0.00586504544963947
ENSBTAG00000007661	4116.53382638296	1.66722595927394	0.463721737344952	3.59531552007822	0.000323998656628431	0.00586504544963947
ENSBTAG000000049057	5.37277644634654	3.50681801893957	0.975672793108352	3.59425623396483	0.000325319561401902	0.0058662192725895
ENSBTAG000000008340	92.5386079807942	1.34493353282122	0.374162782939929	3.59451445895714	0.000324997097171003	0.0058662192725895
ENSBTAG000000018517	308.246483226999	2.73581418294785	0.761048931233874	3.59479406733063	0.00032464827314054	0.0058662192725895
ENSBTAG000000031569	102.667360574176	1.44351424643895	0.402136267004121	3.58961467761414	0.000331167119655	0.00595931687293992
ENSBTAG000000011784	3421.9601698364	1.84608239800441	0.513448762697627	3.58916465225305	0.000331739274053506	0.00595931687293992
ENSBTAG00000001554	4882.23585035504	0.964038432812468	0.268623008896013	3.58881552062681	0.000332183746896444	0.00595931687

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ENSBTAG00000004024	283.012238062369	0.911507193618608	0.254263927602392	3.5848859970573	0.000337225477035759	0.00603431182471011
ENSBTAG000000005145	246.165262920091	1.29486345467923	0.361249971642375	3.58439738774871	0.000337857356858992	0.00603790743233588
ENSBTAG00000001410	24.4660006011196	1.4651036405809	0.408803955030277	3.58387834205857	0.000338529810958911	0.00604221806540802
ENSBTAG000000018785	4862.80065234215	1.84112067221499	0.514038627811723	3.5816776650671	0.000341394850753013	0.00608560210419906
ENSBTAG00000020835	364.496834018186	1.52866766272586	0.426845386696856	3.58131471106073	0.00034186955057033	0.00608632055024256
ENSBTAG000000027446	1187.56514249161	1.35853252418744	0.379381271377091	3.58091615660465	0.000342391522739619	0.00608787769683351
ENSBTAG000000002075	25.6642449858104	1.68198605000431	0.47005445345082	3.57827914969492	0.000345863944268978	0.00611128142899226
ENSBTAG000000011204	197.100223423356	1.51072620932911	0.422181051494694	3.57838468586052	0.000345724343322393	0.00611128142899226
ENSBTAG000000010681	304.351491215986	1.31133926957007	0.366541414974292	3.57760191890469	0.000346761026054446	0.00611128142899226
ENSBTAG000000031358	384.542524293888	1.87376940366328	0.523744332035339	3.57764139686547	0.000346708672589415	0.00611128142899226
ENSBTAG000000012060	433.832955114426	1.18017645618619	0.329875267013698	3.57764456508098	0.000346704471399599	0.00611128142899226
ENSBTAG000000002362	38.6996744447186	2.0064444026088	0.561235417421066	3.57504950743952	0.000350161629528806	0.00614801327234098
ENSBTAG000000006859	55.4087442970898	2.24485072525755	0.627886102668576	3.57525149181789	0.000349891391337951	0.00614801327234098
ENSBTAG000000027444	688.250759774977	1.0650970688215	0.297992969155791	3.57423556615747	0.000351252594465732	0.00615944943812187
ENSBTAG000000008401	1003.36730071026	1.43058342181152	0.400289970597832	3.573861746620871709	0.000351746623071709	0.00616040238129189
ENSBTAG000000044106	148.56117795618	1.0148345633518	0.284111930775674	3.57195335155807	0.000354328535128694	0.00618843809690845
ENSBTAG000000024482	254.917821811468	0.987936574497155	0.276601271101292	3.57169932937643	0.000354672456770929	0.00618843809690845
ENSBTAG000000011684	350.51924180911	0.90747515146336	0.254105011888813	3.57126034121845	0.000355267540639681	0.00619111133321216
ENSBTAG000000017846	226.392837443651	1.76405394500436	0.494252292774707	3.56913659439202	0.000358159659733058	0.00623375775468308
ENSBTAG000000033137	3.15034601229239	4.08960965589975	1.1466651208456	3.56652485678111	0.000361746511841838	0.00626549491291132
ENSBTAG000000003326	1208.52887034824	1.32038355181504	0.370207210851064	3.56660678969388	0.000361633480084319	0.00626549491291132
ENSBTAG0000000013631	3032.85490823707	1.01504057419544	0.284603596269928	3.56650649358885	0.000361771849585701	0.00626549491291132
ENSBTAG000000046672	359.887341047662	1.26464318751511	0.354643601751774	3.56595517660085	0.000362533336379407	0.00627093157532329
ENSBTAG000000011857	189.470132649467	1.87636100162362	0.526405483060691	3.56447845245428	0.000364580398683909	0.00629361509891411
ENSBTAG000000010153	1172.214020686666	1.51359487166738	0.424646856225484	3.56436142050153	0.000364743091879113	0.00629361509891411
ENSBTAG000000008124	251.686158235509	2.08198442456613	0.584343738989669	3.56294469444627	0.000366717960672664	0.00631990817587293
ENSBTAG000000048791	45.2732906081012	1.8068955609419	0.507305984194817	3.56174698749071	0.000368395318004446	0.00632574350868393
ENSBTAG000000020755	99.0059105495206	2.18729001529686	0.614125367979767	3.56163436545895	0.000368553410623144	0.00632574350868393
ENSBTAG000000006672	363.12275949345	1.72883008380545	0.485422047205742	3.56149889309147	0.000368743663324827	0.00632574350868393
ENSBTAG000000006175	461.207075369995	1.57268253942846	0.441589324647308	3.56141430883669	0.000368862497080492	0.00632574350868393
ENSBTAG0000000001601	12840.4270043583	1.97522594172677	0.554770602244844	3.5604372937826	0.000370237718693334	0.00634156561933045
ENSBTAG000000011798	300.407306287766	1.55772279712754	0.437784023321868	3.55819928125214	0.000373405974552943	0.00636470937890667
ENSBTAG000000035587	1507.36422743104	1.59799486303476	0.448982844323425	3.55914459369331	0.000372064658044283	0.00636470937890667
ENSBTAG000000021820	1727.27624567824	0.934433880612261	0.262595035575267	3.55845981080791	0.00037303585513941	0.00636470937890667
ENSBTAG000000013525	1692.62705115816	1.93391190458997	0.543573747405501	3.55777460986352	0.000374010016792286	0.0063672592287688
ENSBTAG000000008755	1173.64435694282	0.333222221363203	0.0936781241890293	3.55709750006103	0.00037497501086202	0.00637594038493661
ENSBTAG000000014636	60.276001031323	2.16880755765573	0.6098621296113	3.55622599330447	0.000376220478713439	0.00638936379061091
ENSBTAG0000000001861	33.9561203826283	1.96752014847129	0.553762121954111	3.55300601191053	0.000380855760864487	0.00643774717393998
ENSBTAG0000000030193	131.246125057435	1.65917735578129	0.467065964754838	3.55234052785711	0.000381820381726724	0.00643774717393998
ENSBTAG000000039197	139.553459317669	2.03550406562331	0.572784486633126	3.55369971276312	0.000379852664663356	0.00643774717393998
ENSBTAG000000000130	246.98534659204	1.42780648415201	0.401866355880361	3.55293859080126	0.000380953384145911	0.00643774717393998
ENSBTAG000000033748	108.406062693099	2.55852180647336	0.720615814265949	3.55046580413945	0.000384550089883299	0.00646089656611633
ENSBTAG0000000001105	423.810741889036	1.58959524128367	0.447645945323618	3.55101002899625	0.000383755793480656	0.00646089656611633
ENSBTAG000000007988	566.208112989922	1.08045901980394	0.304316634769574	3.55044350638951	0.000384582666200915	0.00646089656611633
ENSBTAG000000051030	64.3731963255554	1.84710183092285	0.520659015644027	3.54762286914035	0.000388724391005982	0.00651763114932085
ENSBTAG0000000054081	62.89637914725	2.16598201222359	0.610915042202384	3.54547173108571	0.00039191022218432	0.00656041258339599
ENSBTAG000000011103	478.70820340114	1.25481906516449	0.354135133957254	3.54333401247885	0.00039510194279791	0.00660593475004955
ENSBTAG000000005091	32.5674596438914	2.31987752922102	0.654921910435416	3.54222006052398	0.000396774316457807	0.00662598921083472
ENSBTAG000000031453	6.68397704296813	2.74730911185947	0.776058499627214	3.54007992075232	0.000400005878553414	0.00664001221138135
ENSBTAG000000004777	17.2627593704427	4.43726318072412	1.25391829937925	3.53871793953463	0.000402075225021111	0.00664001221138135
ENSBTAG000000010637	90.4248783929909	1.65258100957863	0.466990350596632	3.53879048564338	0.000401964749321618	0.00664001221138135
ENSBTAG000000037800	159.93369019477	3.44625221423361	0.973920486414246	3.53853549884952	0.000402353177322301	0.00664001221138135
ENSBTAG000000015972	211.713529639123	0.644573975411396	0.182089525864432	3.53987398424711	0.000400318131451023	0.00664001221138135
ENSBTAG0000000012779	455.869080466458	1.50546053978415	0.425287403027309	3.539866239808582978	0.000400329808582978	0.00664001221138135
ENSBTAG000000018366	734.542232468782	0.66132057124269	0.186856261359337	3.53919406516931	0.000401350682101952	0.00664001221138135
ENSBTAG000000021746	1415.46312447367	1.55956764606502	0.440427089134554	3.54102868183651	0.000398570248647992	0.00664001221138135
ENSBTAG000000009048	3671.07394260246	1.24590008795347	0.352171765441684	3.537776959612197	0.000403522006305334	0.00665146689228627
ENSBTAG000000012073	19.4887009823112	1.83442685785789	0.51860823180421	3.53721122296115	0.000404376126872322	0.00665771317697779
ENSBTAG000000003063	503.578139889525	1.09640022608125	0.309990308266063	3.53688549882087	0.000404875153397637	0.00665810536884306
ENSBTAG000000026114	274.172416028392	1.02945596828669	0.291562490677083	3.53082444142943	0.000414266609098276	0.00680455974217579
ENSBTAG000000016094	94.3478203514771	0.998949980097037	0.283053367913151	3.52919305451805	0.000416828933550842	0.0068371414671437
ENSBTAG000000000937	349.819276760961	0.944457817797141	0.267632081181791	3.52894097608429	0.000417226176176423	0.0068371414671437
ENSBTAG0000000030396	161.158761270191	1.48832722490697	0.421993735313971	3.52689412272822	0.000420464864703977	0.00687413444500283
ENSBTAG0000000010923	174.289592539505	0.968442249611379	0.274955905180778	3.52217294251108	0.000428024818190873	0.00698159569497387
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ENSBTAG000000013410	591.1786257778977	0.484934738212226	0.137706703883297	3.52150421538805	0.000429105845132064	0.00699093253365738
ENSBTAG000000013510	126.936877787258	0.886285299676904	0.251753187820479	3.52045313646197	0.000430810114026863	0.007010546464646966
ENSBTAG000000010882	29.1594111788003	1.79181100113606	0.509176690576101	3.51903579700151	0.000433118262828867	0.00703909808441239
ENSBTAG000000051132	47.1444594544307	8.56205555603502	2.43382966301823	3.51793541106615	0.00043491820582606	0.00704466934315482
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ENSBTAG000000033160	34.3061047272171	0.777367487425745	0.221161185432565	3.51493633887568	0.000439859417233376	0.00711647840052752
ENSBTAG000000015100	1259.33265101664	0.872046568646835	0.24815596031667	3.51410688477529	0.000441235231385885	0.00713050383730984
ENSBTAG000000020554	763.932548838617	1.27158656932107	0.36264764589977	3.50639686676061	0.000454217420852834	0.00731498883168857
ENSBTAG000000021041	201.03196398372	2.42629088310252	0.692526724623453	3.50353393859532	0.000459128145310741	0.00736866488424833
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ENSBTAG000000052602	10.2189667259104	2.61061581024245	0.745223304855769	3.50313227355083	0.000459821062914821	0.00737134200514823
ENSBTAG0000000001173	17.1838147622461	2.00027513226257	0.571117844144231	3.50238598350889	0.000461111089044113	0.0073751455120971
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Over expressed genes

Ensemble id	baseMean	log2Fold Change	lfcSE	stat	pvalue	padj
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ENSBTAG00000020312	465.635338365284	0.750059945824645	0.214380931852257	3.49872509343116	0.000467488307223729	0.00743084575412561
ENSBTAG00000015089	1054.76033883008	1.29451281532018	0.370447801015277	3.49445404122347	0.000475032388911405	0.00752904841746346
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ENSBTAG00000016770	295.700090158143	1.93036619059845	0.55250979368463	3.49381352631787	0.00047617349241796	0.00753009797095715
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ENSBTAG00000030591	170.729361675729	0.74820472126989	0.214437792072089	3.48914579860233	0.000484566772128859	0.00762838769022185
ENSBTAG00000011971	131.276768465272	1.3481451160547	0.386430294980577	3.48871486932063	0.000485348565576515	0.00763211981177615
ENSBTAG00000010394	8.84017528435603	3.14765660575804	0.902403004102777	3.48808303102628	0.000486496975962835	0.00764160216391847
ENSBTAG00000000494	161.325261073735	1.65201906673374	0.473749691165796	3.4871137597335	0.00048826362109988	0.00765269619824452
ENSBTAG00000013301	80.6213944299546	0.82451554620907	0.236531506867433	3.48585927147194	0.000490559000798415	0.00766245502807869
ENSBTAG00000008792	1005.94166485323	1.2969613482644	0.372040255397392	3.48607799679918	0.000490158068725548	0.00766245502807869
ENSBTAG00000018223	1499.1893915441	2.95473053246972	0.848903816291409	3.48064230100648	0.00050021303031236	0.00779152277600995
ENSBTAG00000019203	2646.23827269485	1.40480653301995	0.403622762875333	3.48049382302516	0.000500490364599882	0.00779152277600995
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ENSBTAG00000027151	632.53291924756	1.07401352729178	0.308862833836707	3.47731552531052	0.000506461430636767	0.00786699679007953
ENSBTAG00000010057	57.8578431112964	2.11154436536193	0.607399203510499	3.47636999383294	0.000508250576711057	0.00788604521627754
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ENSBTAG00000048462	11.5751074003816	5.43998134370028	1.56627044421227	3.47320691889595	0.00051427870022406	0.00793745243431317
ENSBTAG00000014567	37.0221581135453	1.97200580223642	0.567690856698551	3.4737318365576	0.000513273732494876	0.00793745243431317
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ENSBTAG00000000283	91.88736353202	1.53879607769441	0.4431839219715059	3.47214427180652	0.000516318781403214	0.00794088084109817
ENSBTAG00000051809	1049.76378883789	1.01155963463795	0.291380188157425	3.47161432297324	0.000517338999382644	0.00794784728108578
ENSBTAG00000008330	955.543212462814	1.38207308938895	0.398535141091635	3.46788262034632	0.00052457636808305	0.00804139988316369
ENSBTAG00000048460	48.6867378231971	2.16279130513912	0.624275181067787	3.46448388583988	0.000531249966545041	0.00805556632171274
ENSBTAG00000052317	122.311207597848	1.3801748616979	0.398329027872864	3.46491158093157	0.000530405834142417	0.00805556632171274
ENSBTAG000000031544	273.871336131078	0.627221656878516	0.18100807458064	3.46515843744354	0.000529919187932142	0.00805556632171274
ENSBTAG00000004066	377.323816835712	1.31626965476923	0.379855313948757	3.46518689204594	0.000529863120055053	0.00805556632171274
ENSBTAG000000014178	383.000578093231	1.38680497175409	0.400265915936108	3.4647091259588	0.000530805259160259	0.00805556632171274
ENSBTAG00000010971	505.746583251016	1.21829235021815	0.351610996449831	3.46488694187351	0.000530454429761797	0.00805556632171274
ENSBTAG000000000562	766.635942235472	0.340454504553476	0.0981972650372144	3.46704670872913	0.000526210442036925	0.00805556632171274
ENSBTAG000000007952	1767.3887654342	1.67101954386795	0.8224191672809	3.46510638313124	0.000530021771755979	0.00805556632171274
ENSBTAG00000002977	2152.74647918582	1.12748388546084	0.325384262450016	3.46508425752164	0.000530065380465085	0.00805556632171274
ENSBTAG00000011245	656.981218600685	1.35785863932452	0.392171779864759	3.46240782494032	0.000535365257774447	0.00810820241503175
ENSBTAG00000010999	7.97937897822905	3.15652872943595	0.911804210424566	3.46184925814958	0.000536477542233876	0.00810850792258775
ENSBTAG00000020247	58.2325994704912	1.12096878783761	0.323840442405915	3.46148485812818	0.000537204338937123	0.00811074352677589
ENSBTAG00000010885	1003.0983488203	0.61843558967413	0.178803446851056	3.45874534616378	0.000542697747260193	0.00818486344118683
ENSBTAG00000000696	1171.22339529019	1.15066286056118	0.333019991671897	3.45523659040522	0.000549810133154064	0.00827431769669344
ENSBTAG00000018446	82.9126071297275	3.53519992303313	1.02333565545292	3.45458491961611	0.000551140619019734	0.0082854412157697
ENSBTAG00000009381	1032.3767656055	1.36838024352437	0.396218005991058	3.45360438655897	0.000553148179931828	0.00830670862703627
ENSBTAG00000015904	96.8817180819247	1.46431727828279	0.424124779376824	3.45256241566536	0.00055288993529764	0.00831604714486409
ENSBTAG00000006177	1484.86543455062	0.77835485334448	0.225439223601905	3.45261503703078	0.000555180693904395	0.00831604714486409
ENSBTAG00000018101	3690.11791557253	1.46551201103406	0.424486449392254	3.45243532068518	0.00055550647890428	0.00831604714486409
ENSBTAG00000000874	2102.31891257001	1.21477219175117	0.351947601587848	3.45157116079383	0.000557332767791077	0.00833382007419507
ENSBTAG00000015147	1229.90028375094	1.21050179237734	0.350940935043283	3.44930349099357	0.000562034637206437	0.00838622715857231
ENSBTAG00000018993	2704.05606645343	1.63388140808894	0.47368203606746	3.44932102904627	0.000561998131837161	0.00838622715857231
ENSBTAG00000047302	9.03343823966721	2.43433793889395	0.7063538253619	3.44634353420075	0.000568227510022834	0.00844454016699038
ENSBTAG00000014267	37.2335359714341	1.52377893744194	0.442134134187253	3.44641777148241	0.000568071415678004	0.00844454016699038
ENSBTAG00000008092	247.5288109852	1.15290213377975	0.334539328224912	3.44623796519567	0.000568449552517577	0.00844454016699038
ENSBTAG000000001060	1662.29593371956	1.59662032575757	0.463326065148501	3.44599720554037	0.00056895624278345	0.00844454016699038
ENSBTAG00000019675	155.484268436917	1.78316141385133	0.51756964672963	3.44525886538866	0.000570512738942989	0.0084586814659579
ENSBTAG000000044017	17.4529806632366	2.10233742164565	0.610629530647287	3.44290165498072	0.00057508555687114	0.00846060014422805
ENSBTAG00000018761	375.10625828973	0.86928842685836	0.252448012950105	3.44343541744631	0.000574373757403996	0.00846060014422805
ENSBTAG00000011590	372.496198468945	1.55292672692621	0.45102165799343	3.44313116544136	0.000575020352562476	0.00846060014422805
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ENSBTAG00000013046	950.866063747922	0.861353175921558	0.25019501237857	3.44272720600139	0.000575879892828281	0.00846060014422805
ENSBTAG00000010073	1508.48377555356	1.94819328914664	0.565759031124263	3.44350365079499	0.00057442984113219	0.00846060014422805
ENSBTAG00000003692	7251.43274516512	1.22589107328433	0.355968624663493	3.44381776467854	0.000573562154550745	0.00846060014422805
ENSBTAG000000005978	1826.14425566694	0.84177624442384	0.244590087669112	3.44157955232682	0.00057832838940702	0.00848021949990493
ENSBTAG00000003851	3535.10063315721	1.27560702461695	0.370660655480073	3.44144166843068	0.000578623213325895	0.00848021949990493
ENSBTAG00000037537	68.4820525426451	2.6549124062491	0.77162892969082	3.44065949848833	0.00058029830249518	0.00849588246213162
ENSBTAG00000008849	79.203825589363	1.49411683213456	0.434385654744721	3.43960905664029	0.000582555024644235	0.00852001925917575
ENSBTAG00000022039	24.2767761097621	1.71935998165583	0.500210499696282	3.43727287351983	0.000587603300169651	0.00857594774862186
ENSBTAG000000017287	124.356582291186	1.43043867045091	0.416231970944772	3.43663814964543	0.000588981898520789	0.00857995427833297
ENSBTAG00000007399	1200.19872812743	0.999761647278117	0.290917386845664	3.43658266052179	0.000589102561989531	0.00857995425783297
ENSBTAG000000007129	13.4551412893765	1.88996448950985	0.550089897895081	3.43573749807404	0.00059094325065896	0.00858000609842766
ENSBTAG00000012671	2232.4824496736	1.00919121863749	0.293723350216582	3.43585628413044	0.000590684222228988	0.00858000609842766
ENSBTAG00000013414	217.77236706602	1.73445842201321	0.504944742255806	3.43494698898068	0.000592669753569065	0.00858727602611806
ENSBTAG00000023736	225.907818384834	2.31492217625226	0.673878969344623	3.43521950017765	0.000592074048785843	0.00858727602611806
ENSBTAG000000002615	82.1812638917585	1.84220021797678	0.536681659182626	3.43257531994382	0.000597877788253041	0.00865378687108817
ENSBTAG00000003758	6597.68297850138	1.24659333094089	0.363345330780055	3.43087752982711	0.000601632154769982	0.00869017332008476
ENSBTAG00000009051	96.2393986650809	1.62460262216133	0.473568735690386	3.43055294770024	0.000602352405249988	0.00869161642632089
ENSBTAG000000021519	284.008575849911	0.456611703072868	0.13322928597329	3.42726225497005	0.000609699927956395	0.00877955363884589
ENSBTAG000000045565	119.722177612019	1.7952511948415	0.523943976521935	3.426418223417611	0.000611597867917528	0.00879816469932323
ENSBTAG00000009863	1185.96954728921	1.13020439693118	0.32989449891552	3.42595708824052	0.000612637162662845	0.00880375311391705
ENSBTAG00000012223	162.954444633564	1.79663600791058	0.524668805928966	3.42432404520314	0.000616330817122168	0.00882064461562686
ENSBTAG000000005958	2397.63523981928	1.53958886112545	0.449601276163691	3.42434272932923	0.000616288440014319	0.00882064461562686
ENSBTAG00000012442	4278.63088265642	1.12107408823862	0.32737065295335	3.42447948868221	0.000615978341172053	0.00882064461562686

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Ensemble id	baseMean	log2Fold Change	lfcSE	stat	pvalue	padj
ENSBTAG000000011146	1337.09572950308	1.11581904983601	0.325929723191514	3.4234958349606	0.000618211991692477	0.00882952927176687
ENSBTAG00000004856	615.328689239457	0.800532272547034	0.233866052433262	3.42303752176893	0.000619255286866287	0.00883542344631726
ENSBTAG000000008699	453.279484719168	1.08625006407145	0.317786129585708	3.41817959609369	0.000630414936064009	0.00898549712023686
ENSBTAG000000008291	61.4366582463482	1.63443385691085	0.478331008979826	3.41695149640566	0.000633265610104146	0.00898954859490292
ENSBTAG000000006539	126.714612991814	1.34373001821784	0.393225130772521	3.41720280079246	0.000632681306489698	0.00898954859490292
ENSBTAG000000015609	2594.513084437	1.22741921357687	0.359172671851945	3.41735134593654	0.000632336162548567	0.00898954859490292
ENSBTAG000000005339	103.058112776266	1.76866820472411	0.517659924561364	3.41666047690052	0.000633942881912459	0.00899005437092657
ENSBTAG000000005998	109.136942471219	1.73969370434658	0.509316070166888	3.41574477274306	0.000636078342111896	0.00901121703875609
ENSBTAG000000006222	218.431819942962	1.41139866476955	0.413308875562517	3.41487625410566	0.000638109944988201	0.00903086711033301
ENSBTAG000000004173	145.906734240868	1.11384981640717	0.326299674720319	3.41357930363212	0.000641154956645391	0.00904794565462685
ENSBTAG000000022799	1807.83482646078	0.587596346614921	0.172137085641012	3.41353720743442	0.000641254017203944	0.00904794565462685
ENSBTAG000000010046	49.3818822007686	0.989408351593962	0.289907207282427	3.41284496121576	0.000642885050716378	0.0090569993341771
ENSBTAG000000054404	75.2041226759034	1.19539724958644	0.350283825282836	3.41265329228726	0.000643337332406731	0.0090569993341771
ENSBTAG000000018431	19.6107918464771	1.65562125712408	0.485351252943332	3.41118158670415	0.000646819993099461	0.00906259492331654
ENSBTAG000000008096	40.739598867904	2.83827612422141	0.831983045636265	3.41145909055252	0.000646161966381566	0.00906259492331654
ENSBTAG000000048122	4262.76283046397	1.19107797298659	0.349113977916766	3.41171665509928	0.000645551777589514	0.00906259492331654
ENSBTAG000000048852	8.85786176649598	2.12605126079481	0.623767842983303	3.40840151461882	0.000653446680201313	0.009137511524074
ENSBTAG000000005034	10.0807440495733	2.41221884335645	0.707748596704684	3.40829901265488	0.00065369210444554	0.009137511524074
ENSBTAG000000037421	10.7700029669287	1.88723369682311	0.553773833612291	3.40795028994526	0.00065452817334847	0.009137511524074
ENSBTAG000000009841	1335.41483994894	1.07183753261892	0.314520425888875	3.40784713612722	0.000654775645576354	0.009137511524074
ENSBTAG000000019712	34.5833621281969	2.25658642851924	0.662310636292162	3.40714206426212	0.000656469486821556	0.00915203381080281
ENSBTAG0000000031725	129.032351972568	0.856560861577157	0.25168602618873	3.403291293315	0.000665927571353258	0.00926288575570863
ENSBTAG000000004427	843.349306019153	1.0648915511273	0.312923566751647	3.40304043630069	0.000666404171133702	0.00926288575570863
ENSBTAG000000000277	139.981629581288	3.5740860151277	1.0504901683445	3.40230315602116	0.000668204716010656	0.00927870790488137
ENSBTAG0000000014605	729.995392131548	0.898859541319233	0.264243208298687	3.40163725344725	0.000669834832666382	0.00929213449553335
ENSBTAG000000007890	35.9290468994572	2.14253564855196	0.629963426533779	3.40104767722904	0.000671281189001833	0.00930298787250711
ENSBTAG000000015739	19.286874393808	1.88208396747133	0.553456691358017	3.40059845125958	0.000672385184657676	0.00930907986387223
ENSBTAG000000020536	486.578101997853	1.22253044285869	0.359680058617474	3.3989386221683	0.000676478956380664	0.00935651200182575
ENSBTAG0000000017753	182.949197044493	1.35587337086037	0.398994344386346	3.39822704240508	0.000678241069549527	0.00937163276672428
ENSBTAG000000019049	19.0981177574038	3.77433191848854	1.11108682346429	3.39697298067171	0.000681356942544548	0.00940541095762726
ENSBTAG0000000021002	187.331682128453	1.05919800550199	0.312213899437276	3.39253956009344	0.000692479318192982	0.00953077379882306
ENSBTAG0000000053015	233.157816770409	1.83949624840283	0.54217629349852	3.39280095876758	0.0006918188797723	0.00953077379882306
ENSBTAG000000015969	1400.15590197923	1.31499381495661	0.387608273272327	3.39258448705173	0.000692365765906207	0.00953077379882306
ENSBTAG000000046307	2110.12478429031	1.80224280221627	0.531319195783222	3.39201522647712	0.000693805844817069	0.0095396601489028
ENSBTAG000000005443	328.377874516147	0.782912453952316	0.230893132484893	3.39080008801708	0.000696889142352922	0.0095710161545056
ENSBTAG000000040607	492.740129719471	1.24537804795572	0.367327227373984	3.39037772086459	0.000697963837601089	0.0095710161545056
ENSBTAG000000003001	570.992063088461	0.942793945408377	0.278084857870632	3.39031025503364	0.000698135644129949	0.0095710161545056
ENSBTAG000000013367	1477.20675430295	0.953331016411903	0.281275215809406	3.38931751831945	0.000700668266997022	0.00959634710546948
ENSBTAG000000007181	147.759870990177	1.17477561619874	0.346644940053528	3.38898821375363	0.000701510257262977	0.00959849630323396
ENSBTAG000000014390	277.337060518807	1.3212653003863	0.389921179568719	3.38854458187606	0.000702646054706694	0.00960465743658097
ENSBTAG000000006420	283.064344203423	1.69598890560656	0.500549611772612	3.38825336333896	0.000703392568531648	0.00960549052407107
ENSBTAG000000019218	567.844365130773	1.04338776415692	0.307984227280207	3.38779610037509	0.000704566210356741	0.00961214914635667
ENSBTAG0000000011483	194.099794962216	1.49747131972049	0.44206123656732	3.38747484703387	0.00070539184879934	0.00961405174467661
ENSBTAG000000024492	72.2700872465715	0.896926890234935	0.264815124353631	3.38699268942505	0.000706632707323626	0.00962160433655134
ENSBTAG000000007118	165.795932633452	1.01608622637685	0.300430137955551	3.38210484903874	0.0007193268377499	0.00977544939254496
ENSBTAG000000015829	200.782774931021	1.77640818366911	0.52529279518722	3.38174861704696	0.000720260235990538	0.00977864938610798
ENSBTAG000000024803	531.084059060213	1.23307090869688	0.364819440479737	3.37994846731687	0.000724994218170798	0.00982388200269928
ENSBTAG000000016344	53.5814118449731	1.44704836342943	0.428218409574726	3.3792296899765	0.000726892500294177	0.00984008775035915
ENSBTAG000000020704	14.6570138482817	1.95529374812942	0.578995316123593	3.37704588220199	0.000732688271696186	0.00990897236943558
ENSBTAG000000052103	6.43464312461966	3.0084554688704	0.89189843195519	3.37309200362127	0.000743291118447415	0.00997700165224604
ENSBTAG000000053696	42.6799024530215	1.92713637492223	0.571311494112466	3.373179771074	0.00074305421994099	0.00997700165224604
ENSBTAG000000054594	344.960418388826	1.69529992447948	0.5025152690622	3.37362868126032	0.000741843635157241	0.00997700165224604
ENSBTAG000000021523	1591.36509527425	1.27308529299607	0.377400923971466	3.37329670420288	0.000742738707519587	0.00997700165224604

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Ensemble id	baseMean	log2Fold Change	lfcSE	stat	pvalue	padj
ENSBTAG000000023365	17.505832545374	-2.95353723360436	0.510322516423743	-5.78758949203783	7.14036483166651e-09	1.42919502366399e-05
ENSBTAG000000014042	120.754122167806	-2.19601759632413	0.405480246746161	-5.41584359274321	6.10004082946126e-08	5.34172950384886e-05
ENSBTAG000000007449	220.893777116338	-2.49928846685529	0.484641372349625	-5.15698536990004	2.50957402759071e-07	0.000103416593236981
ENSBTAG000000050003	50.0406353448319	-1.8529795552588	0.384402110221477	-4.82041983117935	1.43256418193106e-06	0.000292396026577108
ENSBTAG000000038241	141.003212570659	-1.03854613267489	0.220157466797219	-4.71728780215057	2.3900947481206e-06	0.000382206075483357
ENSBTAG000000052345	228.116014125188	-1.0031082377988	0.216666167170719	-4.62974100154924	3.6612338321864e-06	0.00048854806788225
ENSBTAG000000014828	19.2535042513133	-1.34951635477571	0.295598405903579	-4.56537088097798	4.98612018935576e-06	0.000567971788398891
ENSBTAG000000002557	117.685980268135	-0.671643862765437	0.14759036284325	-4.55072980258721	5.34601634613431e-06	0.000587810080515025
ENSBTAG000000010455	98.2463607607693	-1.1381936291153	0.256932165323005	-4.42993825893465	9.42600706447171e-06	0.000750385141933597
ENSBTAG000000019971	569.311579727105	-0.626781844556812	0.143314997997331	-4.37345604657851	1.22294876314807e-05	0.000852474384102868
ENSBTAG000000000753	556.124308169645	-0.62733769384461	0.144501469737153	-4.34139317050361	1.41582113149492e-05	0.000918866017682151
ENSBTAG0000000017027	17.0876379860079	-2.04761431475569	0.47382307974721	-4.32147441160552	1.54990028371884e-05	0.0009681711337395439
ENSBTAG000000016904	156.402229432725	-1.00449838330831	0.233200865502608	-4.30743848717437	1.65156004307289e-05	0.000980367695404372
ENSBTAG000000053568	106.884191242055	-0.950022298210321	0.22377297493122	-4.24547378208796	2.18132014965248e-05	0.00116181569041371
ENSBTAG000000009855	146.77799221017	-0.730444880465736	0.171955859086579	-4.24786270352067	2.15819583696472e-05	0.00116181569041371

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ENSBTAG00000002979	20.6870544361868	-1.33029381529889	0.31722316277326	-4.19355826248331	2.74612502704938e-05	0.00131317261959006
ENSBTAG00000055017	797.967283122252	-0.953377812126705	0.228961243734896	-4.16392659550094	3.12820721754066e-05	0.00141384875241814
ENSBTAG00000000773	359.69464737068	-0.763640920387352	0.184751920745725	-4.13333142792251	3.57542559473651e-05	0.00153069634159964
ENSBTAG000000005916	310.569593096191	-0.725072315552198	0.177875948873494	-4.07628080212167	4.57617528005167e-05	0.00174230412632619
ENSBTAG00000014982	39.1498937354185	-0.99523397734241	0.246332952514048	-4.04019830552574	5.34060251544794e-05	0.00192853561453456
ENSBTAG00000011374	31.8070650851087	-1.70008012065954	0.421741521198904	-4.03109496031276	5.55176057993701e-05	0.00198432952769126
ENSBTAG00000019437	370.829006860881	-1.13589501309929	0.28203871617123	-4.02744356703733	5.63865953349038e-05	0.0019968636144269
ENSBTAG00000019520	844.571088826091	-0.615281438026836	0.152769868500932	-4.02750518845332	5.63718238523235e-05	0.0019968636144269
ENSBTAG00000011104	1585.65470900788	-0.513511911708679	0.127722551802238	-4.02052655903544	5.80682019005975e-05	0.00204420496690772
ENSBTAG00000046481	287.731957665994	-0.472288686127324	0.117850912498586	-4.0075097944871	6.13623176133069e-05	0.00212283316562974
ENSBTAG00000012609	155.392804655578	-0.833573948233302	0.208913217598257	-3.9900488720454	6.60596823027273e-05	0.00219327537616946
ENSBTAG00000007605	826.215701261492	-0.517407786914956	0.1296484875485	-3.99085092852626	6.58366541177704e-05	0.00219327537616946
ENSBTAG00000007269	117.890575834759	-0.861777193501312	0.216096261646019	-3.98793198427914	6.66517651956724e-05	0.0022077018490699
ENSBTAG00000030744	200.912660303863	-0.806891175824316	0.203064779142205	-3.97356502544976	7.08048165126484e-05	0.00225978652427954
ENSBTAG00000038480	75.371840859674	-0.869411826147561	0.2189218677347832	-3.971333517579e-05	7.1471333517579e-05	0.00227071395455533
ENSBTAG00000003762	30.4138829318238	-1.4987573140053	0.380676649138674	-3.93708759756191	8.24765059312572e-05	0.00250490654774278
ENSBTAG00000022382	116.008739761443	-0.684378818289733	0.173923945678445	-3.93493153355104	8.3220416410881e-05	0.00251836124045973
ENSBTAG0000002655	194.958981886171	-1.17166132436927	0.298824379242712	-3.92090273001995	8.82178692716086e-05	0.0026194315988941
ENSBTAG00000014711	198.258363350369	-0.630893623430892	0.160904874781709	-3.92091056462269	8.82150008565619e-05	0.0026194315988941
ENSBTAG00000014734	2940.71869801761	-0.502412240813191	0.12813911634218	-3.92083428663235	8.82429316021708e-05	0.0026194315988941
ENSBTAG00000025226	12.6775726777853	-1.84386537097372	0.473551066927866	-3.8936991166247	9.8727093284196e-05	0.0028462292935982
ENSBTAG00000014579	231.168108154717	-0.7637033689478	0.19621766983833	-3.8921232961538	9.9370719347299e-05	0.00285303929329106
ENSBTAG00000015804	130.31174351479	-0.728014871326907	0.187264665678323	-3.88762540274131	0.000101229691571927	0.00287693551443055
ENSBTAG00000021398	66.0055884358225	-1.56144636515392	0.403585890102919	-3.86893200046148	0.000109313120481632	0.00300901008068398
ENSBTAG00000014272	325.2673574404182	-0.501210179970639	0.12966022733136	-3.865566105234634	0.000110831823754211	0.00302531985421906
ENSBTAG00000015164	33.1271017074527	-0.906404599036765	0.234967183067909	-3.85757954452219	0.000114515417282688	0.00310343425831284
ENSBTAG00000003702	409.237483598965	-0.630456882455167	0.163538088597989	-3.85510732001377	0.000115678871647999	0.00312891249162184
ENSBTAG00000014597	186.168280438675	-1.05925289514573	0.274855224881756	-3.85385759212481	0.000116271239873343	0.00313887541785242
ENSBTAG000000051047	143.559097709749	-1.43802167295259	0.373634492318907	-3.8487390809872	0.000118727385225506	0.00316252736576913
ENSBTAG00000039212	67.1231654496519	-1.40603229220947	0.366619757238072	-3.83512417007149	0.000125500875323889	0.00325628289659817
ENSBTAG00000012322	120.523886042222	-1.2871767561773	0.33605749201661	-3.83022782337992	0.000128024671802419	0.0033034137691044
ENSBTAG00000037488	87.2608541532373	-0.816867449476596	0.214435912450207	-3.80937801016085	0.000139316823117216	0.00347325268451124
ENSBTAG00000023601	82.4305227011065	-1.39619610363984	0.366739549926273	-3.80705081827286	0.00014063385522695	0.00349985958363195
ENSBTAG00000052677	396.550906121331	-1.79525071277542	0.47366441457123	-3.79013212212811	0.00015056717559211	0.00364351761178075
ENSBTAG00000000305	422.682961644452	-0.524748855572515	0.138598032073272	-3.78612053665451	0.000153017471699197	0.00368372473535644
ENSBTAG000000048280	114.074658459533	-0.782748308030292	0.78007466240675	-3.78125640705267	0.000156038857550259	0.00373081392567609
ENSBTAG00000015521	31.2134158924585	-1.31608445080945	0.349239016157128	-3.76843476794507	0.000164274401161401	0.00381188641067514
ENSBTAG00000002025	213.891610840271	-1.33051186970896	0.353032715601829	-3.76880614999315	0.000164030211498022	0.00381188641067514
ENSBTAG00000021060	318.82096743041	-0.79919192557374	0.212618037559116	-3.75881526680524	0.000170719825378521	0.00390842397610858
ENSBTAG00000003707	1074.9741281063	-1.0561671541652	0.281670501342919	-3.74965482409308	0.000177078143073043	0.00401510228828126
ENSBTAG00000015036	105.312741200841	-0.720630221809477	0.192998601263926	-3.73386240672291	0.000188565535971037	0.00420030480841049
ENSBTAG00000009500	564.555418426538	-0.8092600872273	0.217103551611445	-3.72753039377104	0.000193365247794027	0.00425787892175242
ENSBTAG00000019443	1130.16845417292	-0.345981814542588	0.0930407729837666	-3.71860425754367	0.000200326609448006	0.00433813925671717
ENSBTAG00000030939	84.242489627736	-1.30292736160022	0.351431329595743	-3.70748778459507	0.000209325510316406	0.00445723362468567
ENSBTAG00000009916	387.427331574271	-0.6077039616505	0.164344969321339	-3.69387878845298	0.000220859110737659	0.00464633183265065
ENSBTAG00000010843	475.726975568024	-0.562305245679163	0.152250519547598	-3.69328950305073	0.000221371760459536	0.00465013453642962
ENSBTAG00000003552	276.860994612834	-0.609796415626901	0.165896845613775	-3.67575654239123	0.000237145596460612	0.00480846158033233
ENSBTAG00000006021	687.306386876569	-0.536756382020248	0.146056976332168	-3.6749794189874	0.000237868588710696	0.00481615143992133
ENSBTAG00000002470	40.7862895168274	-1.19829737584732	0.3264834077676108	-3.67031630910965	0.000242250507269865	0.00486271039736114
ENSBTAG00000014430	160.278914345903	-0.581390770925585	0.158823091425672	-3.660618656253184	0.000251607004519059	0.00497216606532657
ENSBTAG00000008399	151.975929230904	-0.585283649130394	0.160556383126387	-3.64534649905304	0.000267031767036205	0.00518196965089234
ENSBTAG00000010013	538.277748112779	-0.578227337588709	0.158716849024421	-3.64313770808125	0.000269334649221033	0.0052122206771214
ENSBTAG00000021162	301.991251019859	-0.679426022050129	0.186670535103148	-3.63970683254698	0.000272948260880692	0.00526036193556998
ENSBTAG00000003839	368.783827589832	-0.456550057291451	0.125647717169792	-3.633571537374299	0.000279525076746907	0.00530681009525868
ENSBTAG00000009618	49.6128736161387	-1.12742324546702	0.310890307022349	-3.62643421168475	0.000287361988597302	0.00541774306080802
ENSBTAG00000009245	443.519185973787	-0.821603123799693	0.226784642019504	-3.62283405297363	0.000291392777505655	0.00545816070271622
ENSBTAG00000011334	145.963626433655	-0.793579214909067	0.219296665715597	-3.61874729065991	0.000296032538501691	0.005510853171292515
ENSBTAG00000000049	148.952395927766	-0.65270090382369	0.180564625272599	-3.61477272344603	0.00030605941600015	0.00557115059272224
ENSBTAG00000014523	340.772559478677	-1.99420057526981	0.551854314851064	-3.61363592093688	0.000301932959027418	0.00558108708342923
ENSBTAG00000018888	122.806011104014	-1.20497266839792	0.335138782064975	-3.59544383665004	0.000323838990195207	0.00586504544963947
ENSBTAG00000016580	182.511084045593	-0.963055350002609	0.268334491527593	-3.58901065800397	0.000331935271983519	0.00595931687293992
ENSBTAG00000014697	2002.00102492389	-0.489293512791735	0.136689269747182	-3.57960441003689	0.000344114738946577	0.0061107624935114
ENSBTAG00000015830	63.654373636852	-0.888801409149497	0.248338821802384	-3.57898697714191	0.000344928653731251	0.00611128142899226
ENSBTAG00000010884	92.1457722211456	-0.612770344922103	0.171368844428605	-3.57573949316903	0.000349329291152079	0.0061472257642359
ENSBTAG000000051481	8.22375212295963	-1.82434674346363	0.51063684701936	-3.5726891901995	0.00035323403983232	0.00618047844120207
ENSBTAG00000021282	9.09992644546465	-2.92019595132167	0.818494362597976	-3.56776550305453	0.00036003849194748	0.00625868400828305
ENSBTAG00000015901	341.842753545029	-0.519500092976244	0.145998118448819	-3.55826567147411	0.000373311625188401	0.00636470937890667
ENSBTAG000000001484	86.980989915013	-0.94051302083857	0.264759042702225	-3.55233646881088	0.000381826272324897	0.006430713396998
ENSBTAG00000016937	751.10446006599	-0.76694262075697	0.21582901632182	-3.55347318514447	0.000380179953312368	0.00643774717393998
ENSBTAG00000035744	897.970235727349	-0.566988969698634	0.159827280828006	-3.54751057992899	0.000388890132098511	0.00651763114932085
ENSBTAG00000004948	95.5493982230388	-2.29023731593557	0.647002868090678	-3.53976377767292	0.000400485327955986	0.00664001221138135
ENSBTAG000000008962	146.871244474964	-0.992478757945971	0.280231158185917	-3.54037975788532	0.000399551654880114	0.00664001221138135
ENSBTAG00000013288	570.216768562816	-1.09228996730297	0.309626954488697	-3.52776123482764	0.000419089997712109	0.00685966116582284
ENSBTAG000000031327	239.463885620829	-0.973682766879387	0.276711934906474	-3.51875956202787	0.00043356945591663	0.00703909808441239
ENSBTAG000000008366	324.914911983689	-1.54889525299996	0.440873795782407	-3.51323954341893	0.000442678184656608	0.00714558069726237
ENSBTAG00000010778	152.073898390815	-0.931163711831771	0.265468601712976	-3.50762276903294	0.00045212967942695	0.00728974561386766
ENSBTAG00000011136	161.133995202329	-1.13077591236979	0.322745054890412	-3.50361963796392	0.000458980430385994	0.00736864488424833
ENSBTAG00000006103	737.077370					

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Ensemble id	baseMean	log2Fold Change	lfcSE	stat	pvalue	padj
ENSBTAG00000052734	26.3287510520359	-1.08145644832534	0.308966627216703	-3.50023709054774	0.000464844520084218	0.00740948415346982
ENSBTAG00000007617	435.486344669312	-0.586456730866114	0.167619123262055	-3.49874596318734	0.000467451720339697	0.00743084575412561
ENSBTAG00000008462	185.184564225708	-1.03219279762926	0.295226032761223	-3.4962797419159	0.000471793810455566	0.00748618695163413
ENSBTAG000000018938	919.853622169936	-1.08917002504653	0.311956501006918	-3.49141634019794	0.000480466908351919	0.00758088046499857
ENSBTAG000000021813	73.6251829400372	-1.05069844031447	0.300973209058427	-3.49100321454358	0.000481210463506598	0.00758407177074346
ENSBTAG00000049252	5.43366046016337	-2.38388222179684	0.683629608874163	-3.48709621533617	0.000488295653503005	0.00765269619824452
ENSBTAG00000015728	103.428615612286	-0.63429658655781	0.181961417993804	-3.48588504943069	0.00049051173290012	0.00766245502807869
ENSBTAG00000017326	55.2790819188588	-0.893502008526717	0.256580582355691	-3.48234461206451	0.00049704359417027	0.00775509777051186
ENSBTAG00000002481	71.5973517438427	-1.00494480670118	0.28935930630333	-3.47299977850969	0.000514675780024293	0.00793745243431317
ENSBTAG00000016034	203.537247969557	-0.779177706772861	0.224381674174526	-3.47255500984813	0.000515529349455784	0.00793745243431317
ENSBTAG00000014215	210.620231203777	-0.843362967134016	0.242802650016332	-3.47345042188496	0.000513812279930558	0.00793745243431317
ENSBTAG00000038233	489.98035520695	-0.580819688533511	0.167420424499272	-3.46922838280127	0.000521955549098551	0.00800998816913451
ENSBTAG00000007668	81.0097094932178	-1.49766672815809	0.432269422665192	-3.46466034753074	0.000530901536398913	0.00805556632171274
ENSBTAG00000020357	160.593308338813	-0.631170049533608	0.18230581288545	-3.46214988728964	0.00053587862653054	0.00810820241503175
ENSBTAG00000019362	289.287438127081	-0.694901686240723	0.200997267180123	-3.45723632505002	0.000545679190778302	0.00822097972257504
ENSBTAG00000021870	116.564202031624	-0.8046944844841	0.233459072586991	-3.44683320963788	0.000567198635146873	0.00844454016699038
ENSBTAG000000048140	191.018348214459	-0.750495817855789	0.217875138938348	-3.44461429382338	0.000571874802230092	0.00846060014422805
ENSBTAG00000014944	690.172837352647	-1.09518588997171	0.318124336898191	-3.44263427282406	0.000576076835171905	0.00846060014422805
ENSBTAG00000011121	70.7172927639382	-0.670728211070194	0.195108247894253	-3.43772351148233	0.000586626354169577	0.00857061715148065
ENSBTAG00000007761	52.5758967981354	-0.760554450830296	0.221362076975246	-3.43579379640238	0.000590820471660452	0.00858000609842766
ENSBTAG00000011455	113.419327378397	-0.663820963324504	0.193407573326841	-3.43223872729486	0.000598620366636277	0.00865559335081618
ENSBTAG00000014660	131.246390014068	-0.752122734986603	0.19343112032012	-3.42897813393308	0.000605858336679585	0.00873321106503876
ENSBTAG00000020575	36.6675092615753	-1.48948918778371	0.434885604576468	-3.4250137785874	0.000614768241647487	0.00882064461562686
ENSBTAG00000001725	130.650011457326	-1.51996366712825	0.4447485016482	-3.41758018631968	0.000631804795744809	0.00898954859490292
ENSBTAG00000014106	769.792430281893	-0.593015964317936	0.173721878509822	-3.41359401248017	0.000641120347214597	0.00904794565462685
ENSBTAG00000053873	230.283219603553	-0.668125821684273	0.195791082174409	-3.41244256001973	0.000643834939464734	0.0090569993341771
ENSBTAG00000050135	223.945535922898	-0.549784562369499	0.161165778082575	-3.41129840906927	0.000646542903946821	0.00906259492331654
ENSBTAG00000004999	4088.54351749454	-0.584600758482968	0.17161144579287	-3.40654308853977	0.00065791164640768	0.00916302194614116
ENSBTAG00000021374	414.827764270426	-0.883721443722386	0.261076985451395	-3.38490749077118	0.000712022467793651	0.0096855794138416
ENSBTAG00000030393	137.744637719917	-1.40296793178717	0.414906260795159	-3.38140940341176	0.000721150088541892	0.00978125255620566
ENSBTAG00000016848	148.319716140725	-0.537731366858014	0.159253108224302	-3.37658318166475	0.000733921765465339	0.00990972076714881
ENSBTAG00000022450	200.512271413111	-1.12976487864032	0.334596976343374	-3.37649458458023	0.000734158172600133	0.00990972076714881
ENSBTAG000000066320	176.597114009535	-0.698277630755827	0.207011101971262	-3.37314097701275	0.000743158922718609	0.00997700165224604
ENSBTAG00000007236	610.547206529949	-0.412950495898806	0.122426580747889	-3.37304606055434	0.00074341515416065	0.00997700165224604

Over expressed genes

Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000013125	620.868613	3.86971154	0.55069752	1.86e-13	2.61e-09
ENSBTAG00000053537	144.277632	2.70642673	0.42822089	5.59e-12	3.91e-08
ENSBTAG00000019716	1154.81385	3.09657391	0.50620034	3.5e-11	1.63e-07
ENSBTAG00000014972	822.807587	1.97197718	0.34072895	1.89e-10	4.4e-07
ENSBTAG00000006240	1015.65178	2.40640334	0.4087647	1.71e-10	4.4e-07
ENSBTAG00000020872	1172.26891	3.39887724	0.56786636	1.54e-10	4.4e-07
ENSBTAG00000018134	96.6347954	4.02053029	0.6753802	2.96e-10	5.92e-07
ENSBTAG00000052659	19.7215452	3.46770414	0.6074225	5.71e-10	9.99e-07
ENSBTAG00000006679	159.232534	2.097691	0.3668588	8.87e-10	1.38e-06
ENSBTAG00000027513	654.459339	3.09459608	0.56913755	2.94e-09	3.74e-06
ENSBTAG00000019428	1516.06382	3.03638946	0.5567975	2.77e-09	3.74e-06
ENSBTAG000000004741	64.5579312	2.2579307	0.44347503	4.48e-09	4.18e-06
ENSBTAG00000021029	166.6623	2.04590723	0.38148089	4.53e-09	4.18e-06
ENSBTAG00000037735	454.026011	2.88884099	0.53927557	3.79e-09	4.18e-06
ENSBTAG00000045880	1125.00952	2.86639795	0.53198518	4.34e-09	4.18e-06
ENSBTAG00000004043	2655.36802	2.79150806	0.51738332	4.77e-09	4.18e-06
ENSBTAG00000048555	105.079377	1.96216529	0.37047801	7.59e-09	5.22e-06
ENSBTAG000000044071	130.067379	2.37710918	0.45920996	7.15e-09	5.22e-06
ENSBTAG00000006606	192.187891	2.88647529	0.54283573	8.57e-09	5.22e-06
ENSBTAG00000013205	210.700334	4.03220085	0.76782155	8.2e-09	5.22e-06
ENSBTAG00000021176	543.73311	3.56405426	0.67346014	7.05e-09	5.22e-06
ENSBTAG00000011011	1015.7017	1.93432248	0.36197807	8.08e-09	5.22e-06
ENSBTAG00000016357	2873.48911	2.52091737	0.47419627	6.97e-09	5.22e-06
ENSBTAG00000053703	93.4251655	1.67817045	0.31390313	9.52e-09	5.56e-06
ENSBTAG00000009717	2597.8304	2.24742647	0.42555411	1.03e-08	5.75e-06
ENSBTAG00000004641	66.3579192	2.21258235	0.42489854	1.11e-08	5.82e-06
ENSBTAG00000012757	71.1565712	2.02401141	0.39559085	1.12e-08	5.82e-06
ENSBTAG000000049346	1195.71647	2.59526931	0.50418919	1.23e-08	6.17e-06
ENSBTAG00000054306	257.54603	1.86938699	0.35603848	1.33e-08	6.43e-06
ENSBTAG00000018869	209.333066	2.69930082	0.51810657	1.42e-08	6.61e-06
ENSBTAG00000006561	308.599208	2.32017767	0.46419473	1.56e-08	6.61e-06
ENSBTAG00000017722	893.296408	1.94268079	0.371914	1.49e-08	6.61e-06
ENSBTAG000000049346	902.227665	2.55448054	0.49217461	1.55e-08	6.61e-06
ENSBTAG00000054870	84.132995	2.93788706	0.58704178	1.96e-08	7.25e-06
ENSBTAG00000009917	113.082091	1.94283814	0.37320537	2.01e-08	7.25e-06
ENSBTAG00000053934	119.450959	1.89988096	0.37090635	1.82e-08	7.25e-06
ENSBTAG000000004944	161.325261	1.95793682	0.39107399	1.79e-08	7.25e-06
ENSBTAG00000001562	1793.75871	2.79586725	0.5444438	1.93e-08	7.25e-06
ENSBTAG00000017863	17871.9133	1.90963892	0.3691741	2.02e-08	7.25e-06

Over expressed genes

Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000010662	694.616476	2.97342458	0.58809475	2.08e-08	7.3e-06
ENSBTAG000000048591	391.55911	2.72771531	0.53934855	2.16e-08	7.37e-06
ENSBTAG000000001941	2160.47282	2.22269783	0.43318657	2.22e-08	7.41e-06
ENSBTAG000000023179	1153.46338	2.39978097	0.47123841	2.34e-08	7.61e-06
ENSBTAG0000000015829	200.782775	2.02104798	0.39810587	2.47e-08	7.68e-06
ENSBTAG000000034366	2559.53857	3.06070581	0.60305243	2.45e-08	7.68e-06
ENSBTAG000000031548	52.9759663	2.3059238	0.44918692	2.58e-08	7.84e-06
ENSBTAG000000012929	61.7625231	1.18127411	0.23150298	2.7e-08	7.84e-06
ENSBTAG000000001511	1264.52034	3.06115503	0.61303202	2.71e-08	7.84e-06
ENSBTAG000000011515	6220.94142	2.28885302	0.45003624	2.8e-08	7.84e-06
ENSBTAG000000015978	8089.65869	2.56398518	0.50691568	2.76e-08	7.84e-06
ENSBTAG000000005273	415.710934	1.91026363	0.37976903	3.1e-08	8.52e-06
ENSBTAG000000013334	7188.13663	3.04587438	0.61018675	3.33e-08	8.97e-06
ENSBTAG000000046152	262.163461	3.63904504	0.72826576	3.5e-08	9.25e-06
ENSBTAG0000000009768	1477.62536	3.13615739	0.63624076	3.56e-08	9.25e-06
ENSBTAG000000005018	686.053311	2.49296208	0.49759207	3.73e-08	9.5e-06
ENSBTAG000000013368	212.55134	3.6703534	0.77285103	4.15e-08	1.02e-05
ENSBTAG000000004211	1821.07473	2.4171133	0.48345107	4.16e-08	1.02e-05
ENSBTAG000000000033	99.1641983	1.98533666	0.39876671	4.25e-08	1.03e-05
ENSBTAG0000000011931	1013.4641	2.22038079	0.4444279	4.33e-08	1.03e-05
ENSBTAG000000009513	4635.93304	2.01598116	0.40297078	4.48e-08	1.03e-05
ENSBTAG000000039197	139.553459	2.23262375	0.4495737	4.8e-08	1.09e-05
ENSBTAG000000023283	778.903591	1.75295542	0.36569323	6.31e-08	1.38e-05
ENSBTAG000000013495	509.908519	2.81953808	0.58849904	7.19e-08	1.55e-05
ENSBTAG000000015742	1276.60073	2.71763065	0.56248916	7.39e-08	1.57e-05
ENSBTAG000000014611	2959.16349	2.22770921	0.45651997	7.76e-08	1.62e-05
ENSBTAG000000019338	1648.31176	1.91182486	0.39162931	8e-08	1.65e-05
ENSBTAG000000043553	78.6715652	3.53209353	0.7412016	8.36e-08	1.67e-05
ENSBTAG000000002455	311.833414	2.14761248	0.44146567	8.67e-08	1.71e-05
ENSBTAG0000000003196	395.984033	1.89958488	0.39135326	8.85e-08	1.72e-05
ENSBTAG000000038981	83.3655406	1.95138123	0.41048145	9.15e-08	1.76e-05
ENSBTAG000000044010	167.099896	3.1457911	0.65865267	9.4e-08	1.77e-05
ENSBTAG000000015815	939.974892	2.08138093	0.42864582	9.45e-08	1.77e-05
ENSBTAG000000015919	71.8251349	2.33034283	0.48242962	9.62e-08	1.77e-05
ENSBTAG000000001273	263.431083	2.28881165	0.4786348	9.96e-08	1.81e-05
ENSBTAG000000002951	38.779326	2.04572553	0.42188789	1.03e-07	1.85e-05
ENSBTAG000000012976	1369.51478	2.89956068	0.60818258	1.1e-07	1.94e-05
ENSBTAG000000008008	1265.93391	1.3866852	0.28414429	1.12e-07	1.96e-05
ENSBTAG0000000003531	160.931114	2.98424144	0.65563419	1.2e-07	2.02e-05

Over expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000011446	166.477377	2.12850021	0.44356705	1.21e-07	2.02e-05
ENSBTAG000000001945	379.114365	3.32230017	0.73181748	1.19e-07	2.02e-05
ENSBTAG000000013860	981.567636	2.48646325	0.52055021	1.21e-07	2.02e-05
ENSBTAG000000015904	96.8817181	1.70237094	0.36830149	1.25e-07	2.06e-05
ENSBTAG000000014693	18.6658981	2.35913641	0.48735658	1.31e-07	2.07e-05
ENSBTAG000000050566	84.0328888	2.24255307	0.46534442	1.34e-07	2.07e-05
ENSBTAG000000005145	246.165263	1.39593479	0.28987501	1.29e-07	2.07e-05
ENSBTAG000000006156	325.027106	3.18047263	0.70015095	1.3e-07	2.07e-05
ENSBTAG000000023929	465.10328	1.99268538	0.43608101	1.28e-07	2.07e-05
ENSBTAG000000016355	2439.95455	2.86770533	0.6275579	1.34e-07	2.07e-05
ENSBTAG000000007166	77.0653039	3.21512803	0.67835419	1.36e-07	2.07e-05
ENSBTAG000000031851	2328.01059	2.30521286	0.48554738	1.39e-07	2.1e-05
ENSBTAG000000007338	1974.17737	2.19788505	0.46150169	1.42e-07	2.12e-05
ENSBTAG000000012408	2569.33844	1.76656664	0.37267089	1.45e-07	2.14e-05
ENSBTAG000000008353	633.150391	1.52819612	0.32539842	1.53e-07	2.23e-05
ENSBTAG000000001510	397.414493	1.11457156	0.22759272	1.58e-07	2.28e-05
ENSBTAG000000052386	41.4851547	1.73409397	0.38274406	1.61e-07	2.28e-05
ENSBTAG000000047904	398.638631	3.21917502	0.70851328	1.6e-07	2.28e-05
ENSBTAG000000013527	2053.4344	1.78235847	0.37403011	1.65e-07	2.31e-05
ENSBTAG000000020453	196.065076	2.26096044	0.48092214	1.67e-07	2.32e-05
ENSBTAG000000010498	1019.31357	2.67995556	0.57823595	1.76e-07	2.41e-05
ENSBTAG000000012719	254.473955	2.1100696	0.44696324	1.8e-07	2.44e-05
ENSBTAG000000012228	872.940526	2.34983788	0.50424789	1.86e-07	2.51e-05
ENSBTAG000000024503	2215.40578	2.46501641	0.52937468	1.89e-07	2.53e-05
ENSBTAG000000053578	69.7219581	2.64027162	0.5837811	1.99e-07	2.6e-05
ENSBTAG000000009064	929.902969	2.26187113	0.48570911	2.01e-07	2.61e-05
ENSBTAG000000027051	1482.48483	2.53183402	0.54619121	2.07e-07	2.66e-05
ENSBTAG000000046383	61.318545	3.42069758	0.72599027	2.11e-07	2.68e-05
ENSBTAG000000021617	2160.60302	0.58880281	0.11877191	2.12e-07	2.68e-05
ENSBTAG000000014548	541.162972	2.73797804	0.60222408	2.15e-07	2.69e-05
ENSBTAG000000054949	56.1601728	1.6849657	0.35985611	2.18e-07	2.69e-05
ENSBTAG000000009812	62.8804735	2.79053924	0.60049533	2.19e-07	2.69e-05
ENSBTAG000000001042	870.986113	2.87693113	0.6223183	2.22e-07	2.71e-05
ENSBTAG000000014906	1345.49144	1.72800952	0.39673829	2.26e-07	2.73e-05
ENSBTAG000000007300	265.52991	2.03620376	0.4352262	2.33e-07	2.79e-05
ENSBTAG000000020892	492.522086	2.37272971	0.51099222	2.39e-07	2.83e-05
ENSBTAG0000000031701	1268.46366	1.5483074	0.32834775	2.44e-07	2.88e-05
ENSBTAG000000052312	47.6664129	2.63363164	0.60110936	2.5e-07	2.89e-05
ENSBTAG000000005650	2022.0904	2.38469963	0.51679277	2.49e-07	2.89e-05
ENSBTAG000000018862	578.113308	2.48969105	0.54466483	2.64e-07	3e-05
ENSBTAG000000021572	116.551543	1.6597213	0.35751714	2.88e-07	3.13e-05
ENSBTAG000000014762	391.38737	2.47888303	0.54200794	3.01e-07	3.13e-05
ENSBTAG000000007214	536.768084	1.87802955	0.4043352	2.91e-07	3.13e-05
ENSBTAG000000003935	631.116921	1.93961802	0.42948269	2.99e-07	3.13e-05
ENSBTAG00000005865	645.113201	1.60577743	0.34314155	2.95e-07	3.13e-05
ENSBTAG000000038042	671.939459	3.87222864	0.84932239	2.81e-07	3.13e-05
ENSBTAG000000020000	746.148627	1.82716914	0.39339038	2.94e-07	3.13e-05
ENSBTAG000000005215	793.435468	1.34418923	0.2922367	2.82e-07	3.13e-05
ENSBTAG000000002623	856.384387	1.64079956	0.35520345	2.85e-07	3.13e-05
ENSBTAG000000012052	1010.94957	2.8962935	0.63809787	3.01e-07	3.13e-05
ENSBTAG000000048155	5706.3428	1.70422687	0.3730732	2.85e-07	3.13e-05
ENSBTAG000000002302	202.815163	2.1132113	0.46216121	3.15e-07	3.22e-05
ENSBTAG000000002135	478.001617	1.64884021	0.36362581	3.13e-07	3.22e-05
ENSBTAG000000004636	363.594583	1.7347099	0.39037815	3.22e-07	3.27e-05
ENSBTAG000000014991	40.4892067	3.70203771	0.8054225	3.46e-07	3.44e-05
ENSBTAG000000018744	298.864045	1.50261708	0.3226429	3.42e-07	3.44e-05
ENSBTAG000000051386	355.542172	0.64700078	0.13231857	3.44e-07	3.44e-05
ENSBTAG000000016359	101.052001	3.04334726	0.66882588	3.53e-07	3.48e-05
ENSBTAG000000012519	5912.08553	1.62623355	0.35555604	3.63e-07	3.56e-05
ENSBTAG000000053015	233.157817	1.62335077	0.45298427	3.84e-07	3.73e-05
ENSBTAG000000051972	981.187543	1.69153475	0.37185165	3.89e-07	3.76e-05
ENSBTAG000000015821	156.230395	2.86141288	0.64151265	4.09e-07	3.92e-05
ENSBTAG000000049416	116.329488	2.91295201	0.65198878	4.13e-07	3.94e-05
ENSBTAG000000017969	58.783366	3.80882708	0.84028586	4.19e-07	3.95e-05
ENSBTAG000000002356	456.211584	2.08226438	0.44917885	4.2e-07	3.95e-05
ENSBTAG000000006682	380.398185	1.05520017	0.22740995	4.5e-07	4.17e-05
ENSBTAG000000010449	505.868379	1.65486549	0.36856664	4.5e-07	4.17e-05
ENSBTAG000000039337	39.6004782	2.86256284	0.71225827	4.59e-07	4.23e-05
ENSBTAG000000048631	307.296964	2.02827447	0.44962258	4.75e-07	4.3e-05
ENSBTAG000000020089	535.867206	1.52310422	0.33259902	4.75e-07	4.3e-05
ENSBTAG000000012120	952.482603	1.20775018	0.26028475	4.71e-07	4.3e-05
ENSBTAG000000012387	1245.15617	2.04642211	0.45567415	4.88e-07	4.38e-05
ENSBTAG000000033961	36.9041301	2.69516871	0.61025431	5.52e-07	4.9e-05
ENSBTAG000000010637	90.4248784	1.80362287	0.40839111	5.6e-07	4.9e-05
ENSBTAG000000004587	625.008417	1.78888554	0.4018628	5.56e-07	4.9e-05
ENSBTAG000000048062	1111.16276	1.94422488	0.43293347	5.54e-07	4.9e-05
ENSBTAG000000007213	5530.95887	1.96776315	0.43872138	5.68e-07	4.94e-05
ENSBTAG000000003043	362.779313	1.71803139	0.3803293	5.73e-07	4.96e-05
ENSBTAG000000014953	399.44839	1.9535612	0.43813763	5.85e-07	5.03e-05
ENSBTAG000000035868	59.4056891	2.84293404	0.64558185	5.98e-07	5.11e-05
ENSBTAG000000003074	276.471647	1.67542646	0.38171729	6.04e-07	5.13e-05
ENSBTAG000000005115	166.016586	1.72432261	0.38345401	6.12e-07	5.16e-05
ENSBTAG000000019272	650.148766	2.99315384	0.70212533	6.15e-07	5.16e-05
ENSBTAG000000019665	1378.65546	1.97870444	0.45514235	6.28e-07	5.24e-05
ENSBTAG000000053667	42.3004353	5.0172028	1.21163894	6.33e-07	5.25e-05
ENSBTAG000000012741	1056.71698	1.69551251	0.37480823	6.39e-07	5.27e-05
ENSBTAG000000004558	516.773432	2.28230084	0.51700744	6.51e-07	5.33e-05
ENSBTAG000000009384	500.786068	1.54701878	0.34631916	6.64e-07	5.39e-05
ENSBTAG000000038375	839.49366	1.94453308	0.4374142	6.66e-07	5.39e-05
ENSBTAG000000019708	600.818327	2.07443505	0.4692157	6.75e-07	5.44e-05
ENSBTAG000000015127	121.803004	2.76952241	0.62963371	7.01e-07	5.48e-05
ENSBTAG000000051383	180.405851	2.36297465	0.54163341	6.98e-07	5.48e-05
ENSBTAG000000020225	425.940236	2.31603545	0.52637321	6.98e-07	5.48e-05
ENSBTAG000000008428	968.69373	4.55076467	1.0854058	7e-07	5.48e-05
ENSBTAG000000006354	3881.48612	2.78946904	0.6371374	7e-07	5.48e-05

Over expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000016163	706.558034	2.83440149	0.66050906	7.23e-07	5.63e-05
ENSBTAG000000048952	109.489377	2.10856711	0.48137635	7.5e-07	5.72e-05
ENSBTAG000000014248	111.639796	1.24959786	0.27727575	7.55e-07	5.72e-05
ENSBTAG000000011805	117.163345	2.14567242	0.48701298	7.46e-07	5.72e-05
ENSBTAG000000003495	220.190288	0.71373794	0.15171929	7.55e-07	5.72e-05
ENSBTAG000000000210	265.459626	1.5405215	0.35002826	7.4e-07	5.72e-05
ENSBTAG000000027126	6.36454594	4.75968869	1.18319086	7.77e-07	5.85e-05
ENSBTAG000000016060	44.2606456	1.77994715	0.40577162	8e-07	5.96e-05
ENSBTAG000000021818	6326.31605	1.5490806	0.34703461	7.95e-07	5.96e-05
ENSBTAG000000054533	41.3825183	2.29733659	0.5208653	8.1e-07	6.01e-05
ENSBTAG000000046750	180.161292	2.27325003	0.5207113	8.31e-07	6.13e-05
ENSBTAG000000011971	131.276769	1.47848654	0.34181877	8.46e-07	6.21e-05
ENSBTAG000000054150	8.65522093	4.56846492	1.05683031	8.8e-07	6.33e-05
ENSBTAG000000021741	71.7434396	1.71749126	0.38844078	8.94e-07	6.33e-05
ENSBTAG000000019954	461.41103	2.0625288	0.47280163	8.82e-07	6.33e-05
ENSBTAG000000020747	649.366755	2.58657876	0.60127318	8.75e-07	6.33e-05
ENSBTAG000000000078	1263.29395	1.96820269	0.45587575	8.93e-07	6.33e-05
ENSBTAG000000010387	2292.19941	1.94605771	0.44865581	8.8e-07	6.33e-05
ENSBTAG000000009236	3739.87431	1.61171277	0.36508371	8.92e-07	6.33e-05
ENSBTAG000000047605	149.246526	2.14304595	0.48998654	9.03e-07	6.35e-05
ENSBTAG000000001492	1525.80174	2.26872578	0.52407944	9.14e-07	6.4e-05
ENSBTAG000000004742	135.412476	1.08246894	0.24059114	9.29e-07	6.46e-05
ENSBTAG000000002922	505.543725	2.0265008	0.46358993	9.31e-07	6.46e-05
ENSBTAG000000002624	754.497252	2.09479736	0.48100812	9.37e-07	6.47e-05
ENSBTAG000000002773	222.41794	2.91976425	0.68165889	9.46e-07	6.5e-05
ENSBTAG000000012223	162.954445	1.98234522	0.46616159	9.56e-07	6.51e-05
ENSBTAG000000006175	461.207075	1.62824777	0.37092246	9.57e-07	6.51e-05
ENSBTAG000000004799	32.9038359	2.32154843	0.53443175	9.73e-07	6.58e-05
ENSBTAG0000000003876	170.553381	1.60583177	0.36390821	1e-06	6.75e-05
ENSBTAG000000009055	434.94953	1.9057372	0.43645489	1.01e-06	6.78e-05
ENSBTAG000000008952	169.568724	2.24709976	0.51822197	1.03e-06	6.88e-05
ENSBTAG000000016401	272.048527	1.9083992	0.43992093	1.06e-06	7.04e-05
ENSBTAG000000001051	205.685353	2.8541073	0.67640534	1.07e-06	7.1e-05
ENSBTAG000000050839	34.2906474	1.6138751	0.37887888	1.09e-06	7.16e-05
ENSBTAG000000011970	108.610053	1.69426272	0.3883574	1.09e-06	7.16e-05
ENSBTAG000000005647	432.07779	1.75193148	0.4154717	1.11e-06	7.21e-05
ENSBTAG000000015828	472.060727	1.12812983	0.49489135	1.11e-06	7.21e-05
ENSBTAG000000014555	71.6257481	1.27256886	0.4063994	1.12e-06	7.24e-05
ENSBTAG000000021746	1415.46312	1.61578232	0.3714239	1.13e-06	7.25e-05
ENSBTAG000000047338	94.146703	2.83513795	0.66247134	1.14e-06	7.29e-05
ENSBTAG000000008320	370.1999	2.5416699	0.60106128	1.15e-06	7.32e-05
ENSBTAG000000015094	147.379483	1.75547911	0.4080863	1.16e-06	7.33e-05
ENSBTAG0000000045861	185.391715	3.1634374	0.75403357	1.17e-06	7.34e-05
ENSBTAG0000000001775	385.685692	1.71508418	0.3985462	1.17e-06	7.34e-05
ENSBTAG0000000008507	220.176476	1.71694837	0.39779174	1.2e-06	7.5e-05
ENSBTAG000000050790	6.833342	1.96979334	0.45363576	1.22e-06	7.6e-05
ENSBTAG000000006138	26.7264399	1.72092172	0.41060167	1.24e-06	7.65e-05
ENSBTAG000000010948	40.5579878	1.91704737	0.44274633	1.25e-06	7.65e-05
ENSBTAG000000010899	586.402636	1.80583391	0.43270791	1.25e-06	7.65e-05
ENSBTAG000000011245	96.981219	1.35038205	0.30629345	1.25e-06	7.65e-05
ENSBTAG000000044208	119.224127	3.08960117	0.80191308	1.26e-06	7.65e-05
ENSBTAG000000052486	21.9101725	2.60524228	0.60398831	1.29e-06	7.77e-05
ENSBTAG000000017490	47.578685	2.02270255	0.46969406	1.29e-06	7.77e-05
ENSBTAG000000005947	1271.7512	2.25084894	0.52647677	1.29e-06	7.77e-05
ENSBTAG000000008635	1029.45601	1.63639813	0.38784434	1.3e-06	7.78e-05
ENSBTAG000000019123	149.295039	2.89162639	0.70910782	1.34e-06	7.94e-05
ENSBTAG000000046588	159.614999	1.18730699	0.26959581	1.33e-06	7.94e-05
ENSBTAG000000014821	407.857339	1.35870655	0.31197433	1.35e-06	7.94e-05
ENSBTAG000000019915	3326.13974	2.30135751	0.54949254	1.35e-06	7.94e-05
ENSBTAG000000008389	31.3930032	3.75437513	0.89286221	1.38e-06	8.08e-05
ENSBTAG000000047621	79.617388	2.1375295	0.50386603	1.38e-06	8.08e-05
ENSBTAG000000017801	1050.50315	1.01389056	0.22952673	1.4e-06	8.11e-05
ENSBTAG000000013371	1656.38154	2.04855326	0.48675411	1.4e-06	8.11e-05
ENSBTAG000000018474	2997.03146	1.68956185	0.39244233	1.41e-06	8.11e-05
ENSBTAG000000011578	2200.58057	1.6593516	0.38739064	1.44e-06	8.27e-05
ENSBTAG000000007922	22.5879647	2.6842086	0.62256045	1.45e-06	8.31e-05
ENSBTAG000000022807	32.2520686	3.22716385	0.7952118	1.47e-06	8.34e-05
ENSBTAG000000001105	423.810742	1.63470843	0.3807616	1.47e-06	8.34e-05
ENSBTAG000000020654	123.813521	1.65031808	0.39129398	1.5e-06	8.47e-05
ENSBTAG000000004714	1182.68967	2.22500897	0.52962946	1.6e-06	8.99e-05
ENSBTAG000000014764	519.995614	2.33160287	0.56178469	1.61e-06	9e-05
ENSBTAG000000031682	32.9436516	2.09808074	0.51217883	1.63e-06	9.06e-05
ENSBTAG000000017661	55.3619739	1.29243224	0.519064	1.62e-06	9.06e-05
ENSBTAG000000010606	343.130854	2.03271031	0.49373403	1.64e-06	9.06e-05
ENSBTAG000000011616	15.2798684	3.09217252	0.77723739	1.67e-06	9.22e-05
ENSBTAG000000005668	19.3482605	3.13660931	0.74096212	1.71e-06	9.33e-05
ENSBTAG000000000873	111.38375	1.60630787	0.38470767	1.71e-06	9.33e-05
ENSBTAG000000010487	261.077757	1.63759846	0.39032496	1.72e-06	9.33e-05
ENSBTAG000000003719	308.470649	1.63143985	0.38200182	1.7e-06	9.33e-05
ENSBTAG000000007434	16.2558183	3.94455715	0.95718329	1.79e-06	9.64e-05
ENSBTAG000000010987	2656.8471	2.23480679	0.54662156	1.81e-06	9.7e-05
ENSBTAG0000000005923	89.0535582	1.62891076	0.38099756	1.83e-06	9.74e-05
ENSBTAG000000008293	1798.74634	2.19287126	0.29947693	1.83e-06	9.74e-05
ENSBTAG000000011019	369.150867	1.83479203	0.44270719	1.84e-06	9.75e-05
ENSBTAG000000030193	31.264125	1.80898797	0.44808723	1.86e-06	9.85e-05
ENSBTAG000000014030	63.8816874	2.25798696	0.54372978	1.91e-06	0.00010063
ENSBTAG0000000001576	375.815314	1.46702536	0.34687154	1.95e-06	0.00010237
ENSBTAG000000017412	18.0819186	1.79970029	0.4236707	1.97e-06	0.00010305
ENSBTAG000000019330	24.21698	4.94870604	1.19077566	2.01e-06	0.00010454
ENSBTAG000000010254	35.0018407	2.11610697	0.55200927	2.03e-06	0.00010454
ENSBTAG000000008800	157.752584	1.83624413	0.43503402	2.01e-06	0.00010454
ENSBTAG0000000003806	717.148505	2.19270293	0.52733106	2.03e-06	0.00010454
ENSBTAG000000018562	59.1002603	2.8172226	0.68244414	2.06e-06	0.00010462
ENSBTAG0000000004066	377.323817	1.39708837	0.33309414	2.05e-06	0.00010462
ENSBTAG000000000133	617.975842	1.32428376	0.51171258	2.06e-06	0.00010462

Over expressed genes						
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj	
ENSBTAG00000039046	3334.02044	3.94703738	0.98991668	2.05e-06	0.00010462	
ENSBTAG000000044001	21.921869	1.8277602	0.45953956	2.12e-06	0.0001074	
ENSBTAG000000012252	131.076246	1.91005918	0.45513904	2.14e-06	0.00010758	
ENSBTAG000000039520	288.700065	1.72087794	0.41110912	2.14e-06	0.00010758	
ENSBTAG000000016206	159.278062	1.99844562	0.47781757	2.19e-06	0.00010953	
ENSBTAG000000008294	63.9592736	2.22802226	0.54734342	2.2e-06	0.00010987	
ENSBTAG000000002082	1286.7798	2.60504311	0.6361345	2.21e-06	0.00010987	
ENSBTAG000000015145	1836.20521	2.19103301	0.53244276	2.29e-06	0.00011332	
ENSBTAG000000003882	1024.81697	1.2140868	0.2830095	2.3e-06	0.00011359	
ENSBTAG000000006539	126.714613	1.37966254	0.32545738	2.36e-06	0.00011621	
ENSBTAG000000038650	645.259839	2.11066682	0.5114176	2.39e-06	0.00011716	
ENSBTAG000000006572	401.834561	1.25527044	0.29946099	2.41e-06	0.0001178	
ENSBTAG000000022920	15.92001	2.50880188	0.63863904	2.51e-06	0.00012166	
ENSBTAG000000006724	336.422343	1.02697317	0.23931907	2.52e-06	0.00012166	
ENSBTAG0000000014182	955.036779	1.41631399	0.33677394	2.51e-06	0.00012166	
ENSBTAG000000014228	145.741973	1.65460312	0.40572089	2.62e-06	0.00012581	
ENSBTAG0000000018203	224.964838	1.2636492	0.65358734	2.62e-06	0.00012581	
ENSBTAG000000002148	893.339832	2.64604448	0.66384531	2.64e-06	0.00012644	
ENSBTAG000000020319	111.526725	2.82399449	0.77115092	2.69e-06	0.0001272	
ENSBTAG0000000044194	144.992388	2.987365	0.7614582	2.68e-06	0.0001272	
ENSBTAG000000048980	17153.5467	1.68490555	0.42204961	2.68e-06	0.0001272	
ENSBTAG000000004766	574.584278	1.72671132	0.41787149	2.79e-06	0.00013098	
ENSBTAG000000050510	1342.30067	2.53876477	0.63883021	2.78e-06	0.00013098	
ENSBTAG000000008259	314.517901	2.35212093	0.61705715	2.8e-06	0.00013123	
ENSBTAG000000000130	246.985347	1.506423	0.36990883	2.82e-06	0.00013156	
ENSBTAG0000000021041	201.031964	2.39343958	0.58695207	2.88e-06	0.00013253	
ENSBTAG0000000013093	138.077004	2.41441151	0.60046747	2.89e-06	0.00013253	
ENSBTAG000000012815	437.467695	1.97552075	0.48155173	2.86e-06	0.00013253	
ENSBTAG000000006752	586.694138	1.61997547	0.39039806	2.85e-06	0.00013253	
ENSBTAG000000000711	601.403186	1.7052249	0.41067041	2.87e-06	0.00013253	
ENSBTAG000000017751	127.550824	1.48288037	0.36296798	2.92e-06	0.00013351	
ENSBTAG000000004608	91.2224064	2.1125114	0.51579343	2.96e-06	0.00013529	
ENSBTAG000000011590	372.496199	1.55202902	0.37314306	3.01e-06	0.00013684	
ENSBTAG000000013170	54.5658432	2.22258325	0.59409127	3.07e-06	0.00013917	
ENSBTAG0000000013861	49.3698848	1.98781328	0.48502294	3.13e-06	0.00014134	
ENSBTAG000000004224	365.931267	2.33850255	0.58790662	3.14e-06	0.00014134	
ENSBTAG000000001483	284.929835	0.7655733	0.17779166	3.23e-06	0.00014499	
ENSBTAG000000016069	877.565074	0.77993756	0.17879043	3.42e-06	0.00015303	
ENSBTAG000000010587	1534.03502	1.68023987	0.4129852	3.43e-06	0.00015303	
ENSBTAG000000000977	118.445581	2.67554306	0.66796081	3.45e-06	0.00015324	
ENSBTAG000000019927	245.997922	1.70439446	0.41903371	3.48e-06	0.00015427	
ENSBTAG0000000008721	51.7388062	1.70073016	0.43142417	3.56e-06	0.00015741	
ENSBTAG000000005448	158.360406	2.1075833	0.52022821	3.59e-06	0.00015777	
ENSBTAG000000016424	798.060158	2.05486113	0.50929466	3.59e-06	0.00015777	
ENSBTAG0000000012007	46.7279713	1.87640035	0.48781756	3.63e-06	0.00015875	
ENSBTAG0000000047088	229.167591	2.06335449	0.51178423	3.68e-06	0.00016066	
ENSBTAG000000006685	158.11867	0.76657356	0.64857975	3.7e-06	0.00016117	
ENSBTAG000000044023	42.6619607	1.46761864	0.37313799	3.73e-06	0.00016186	
ENSBTAG0000000048626	68.9405444	2.65241142	0.76032948	3.76e-06	0.00016261	
ENSBTAG0000000033076	25.246239	1.93566582	0.47252378	3.85e-06	0.00016307	
ENSBTAG000000051385	49.9369673	1.57069127	0.39872732	3.82e-06	0.00016307	
ENSBTAG0000000045565	119.722177	1.76148379	0.43115961	3.79e-06	0.00016307	
ENSBTAG000000017639	158.365016	0.91375183	0.21541232	3.81e-06	0.00016307	
ENSBTAG0000000003752	257.24185	1.99375233	0.49318259	3.83e-06	0.00016307	
ENSBTAG0000000013689	423.71274	2.17877394	0.5419605	3.85e-06	0.00016307	
ENSBTAG0000000023744	94.938558	1.7623778	0.2826828	3.85e-06	0.00016307	
ENSBTAG000000015592	160.973497	3.82292101	0.96693634	3.88e-06	0.00016377	
ENSBTAG000000016944	275.884151	1.72792474	0.42833067	3.93e-06	0.00016544	
ENSBTAG000000010508	352.111555	0.63922823	0.14586466	4e-06	0.0001672	
ENSBTAG000000018984	2268.19565	1.53760662	0.37604897	4.03e-06	0.00016807	
ENSBTAG0000000004305	32.0932988	2.21174167	0.55634742	4.15e-06	0.00017062	
ENSBTAG0000000010328	52.1181138	2.04687371	0.56020021	4.15e-06	0.00017062	
ENSBTAG000000046862	518.884211	2.05208948	0.51602057	4.13e-06	0.00017062	
ENSBTAG000000010153	1172.21402	1.5676028	0.39277987	4.13e-06	0.00017062	
ENSBTAG0000000024948	4656.53705	1.3156271	0.32098831	4.11e-06	0.00017062	
ENSBTAG0000000002163	45.2710051	2.11706595	0.57726723	4.17e-06	0.00017092	
ENSBTAG000000011857	189.470133	1.92985694	0.48671812	4.2e-06	0.00017151	
ENSBTAG000000007622	6041.99448	1.20760684	0.29172449	4.25e-06	0.0001731	
ENSBTAG0000000000308	183.297529	1.48570535	0.36723272	4.29e-06	0.00017438	
ENSBTAG000000017273	182.500603	1.65635784	0.4124176	4.32e-06	0.00017506	
ENSBTAG0000000008732	35.0700814	1.57576805	0.39959955	4.34e-06	0.0001751	
ENSBTAG000000013240	592.986082	1.07210763	0.25677882	4.35e-06	0.0001751	
ENSBTAG000000006420	283.064344	1.72671431	0.42837816	4.38e-06	0.00017588	
ENSBTAG0000000020350	4214.31859	1.6455596	0.4140388	4.44e-06	0.00017782	
ENSBTAG0000000011465	81.8644323	2.55516643	0.64368488	4.51e-06	0.00018022	
ENSBTAG000000052602	10.2189667	2.51879466	0.63713588	4.6e-06	0.00018171	
ENSBTAG0000000005952	48.5824315	2.27023788	0.58122684	4.6e-06	0.00018171	
ENSBTAG000000051340	69.8735563	2.52181732	0.64313804	4.62e-06	0.00018171	
ENSBTAG0000000023736	225.907818	2.23814947	0.56399756	4.58e-06	0.00018171	
ENSBTAG0000000002006	2000.97664	2.48516263	0.70098656	4.6e-06	0.00018171	
ENSBTAG000000007280	47.1203489	2.0160663	0.50367009	4.64e-06	0.00018213	
ENSBTAG000000012638	40477.2801	3.65028849	1.01798251	4.69e-06	0.0001837	
ENSBTAG000000039556	50.5392229	2.61970894	0.66413433	4.74e-06	0.00018431	
ENSBTAG000000015513	97.9574261	2.14920575	0.53918138	4.73e-06	0.00018431	
ENSBTAG0000000009475	127.694818	1.5926525	0.39649431	4.75e-06	0.00018431	
ENSBTAG000000021647	143.081783	4.42144799	1.26125321	4.78e-06	0.00018451	
ENSBTAG0000000001066	1520.32959	1.50655124	0.38131142	4.78e-06	0.00018451	
ENSBTAG000000017363	4772.81238	1.14312504	0.2776892	4.82e-06	0.00018537	
ENSBTAG000000015938	288.181322	2.22154376	0.56156703	4.85e-06	0.00018614	
ENSBTAG0000000015032	1345.64681	1.8623486	0.47354912	4.88e-06	0.00018651	
ENSBTAG000000005029	496.849229	1.43110216	0.35878957	4.93e-06	0.00018872	
ENSBTAG0000000001785	6547.07426	4.38694072	1.5186307	4.97e-06	0.00018863	
ENSBTAG000000015329	728.926986	2.24240956	0.27219478	5.08e-06	0.00019203	
ENSBTAG000000017367	434.025567	1.79715179	0.4529706	5.08e-06	0.00019203	
ENSBTAG0000000003276	390.757673	1.50448659	0.38380659	5.2e-06	0.00019579	

Over expressed genes						
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj	
ENSBTAG00000044001	21.921869	1.8277602	0.45953956	2.12e-06		0.0001074
ENSBTAG00000012252	131.076246	1.91005918	0.45513904	2.14e-06		0.00010758
ENSBTAG00000039520	288.700065	1.72087794	0.41110912	2.14e-06		0.00010758
ENSBTAG00000016206	159.278062	1.99844562	0.47781577	2.19e-06		0.00010953
ENSBTAG00000008294	63.9592736	2.22802226	0.54734342	2.2e-06		0.00010987
ENSBTAG00000002082	1286.7798	2.60504311	0.6361345	2.21e-06		0.00010987
ENSBTAG00000015145	1836.20521	2.19103301	0.53244276	2.29e-06		0.00011332
ENSBTAG00000003882	1024.81697	1.2140868	0.2830095	2.3e-06		0.00011359
ENSBTAG00000000639	126.714613	1.37966254	0.32545738	2.36e-06		0.00011621
ENSBTAG00000038650	645.259839	2.11066682	0.5114176	2.39e-06		0.00011716
ENSBTAG00000006572	401.834561	1.25527044	0.29946099	2.41e-06		0.00011778
ENSBTAG00000002290	15.92001	2.53870188	0.63863904	2.51e-06		0.00012166
ENSBTAG00000006724	336.422343	1.02697137	0.23931307	2.52e-06		0.00012166
ENSBTAG00000014182	955.036779	1.41631399	0.33677394	2.51e-06		0.00012166
ENSBTAG00000014228	145.741973	1.65460312	0.40572089	2.62e-06		0.00012581
ENSBTAG00000018203	224.964838	1.26163492	0.65358374	2.62e-06		0.00012581
ENSBTAG00000002148	893.339832	2.64604448	0.66384531	2.64e-06		0.00012644
ENSBTAG00000020319	111.526725	2.82399479	0.77115092	2.69e-06		0.0001272
ENSBTAG000000044194	144.992388	2.987365	0.7614582	2.68e-06		0.0001272
ENSBTAG000000048980	175.53.5467	1.68490555	0.42024961	2.68e-06		0.0001272
ENSBTAG000000047676	574.584278	1.72671132	0.41787149	2.79e-06		0.00013098
ENSBTAG00000005105	1342.30067	2.53876477	0.63883021	2.78e-06		0.00013098
ENSBTAG00000008259	314.517901	2.35212093	0.60175715	2.8e-06		0.00013123
ENSBTAG000000000130	246.985347	1.506423	0.36990883	2.82e-06		0.00013156
ENSBTAG000000021041	201.031964	2.39343958	0.58695207	2.88e-06		0.00013253
ENSBTAG00000013093	318.077004	2.41441115	0.60046747	2.89e-06		0.00013253
ENSBTAG00000012815	437.667695	1.97552075	0.48155173	2.86e-06		0.00013253
ENSBTAG00000006752	586.694138	1.61997547	0.39039806	2.85e-06		0.00013253
ENSBTAG000000000711	601.403186	1.7052249	0.41067041	2.87e-06		0.00013253
ENSBTAG000000017751	127.550824	1.48288037	0.36296758	2.92e-06		0.00013351
ENSBTAG000000004608	91.2224064	2.1125114	0.51579343	2.96e-06		0.00013529
ENSBTAG00000011590	372.496199	1.55202902	0.37314306	3.01e-06		0.00013684
ENSBTAG00000013170	54.5658432	2.22258325	0.59409172	3.07e-06		0.00013917
ENSBTAG00000013861	49.3698848	1.98781328	0.48502924	3.13e-06		0.00014134
ENSBTAG000000004224	365.931267	2.33850255	0.58790662	3.14e-06		0.00014134
ENSBTAG00000001483	284.929835	0.76575733	0.17779166	3.23e-06		0.00014499
ENSBTAG00000016069	877.567074	0.77993756	0.17879043	3.42e-06		0.00015303
ENSBTAG00000010587	1534.03502	1.68023987	0.41929852	3.43e-06		0.00015303
ENSBTAG00000000977	118.445581	2.67554306	0.66796081	3.45e-06		0.00015324
ENSBTAG00000019927	245.997922	1.70349446	0.41903371	3.48e-06		0.00015427
ENSBTAG000000008721	51.7388062	1.70073016	0.43142417	3.56e-06		0.00015741
ENSBTAG00000005448	158.364046	2.1075833	0.52022821	3.59e-06		0.00015777
ENSBTAG00000016424	798.060158	2.05486113	0.50929466	3.59e-06		0.00015777
ENSBTAG00000012007	46.7279713	1.87604035	0.48781756	3.63e-06		0.00015875
ENSBTAG000000047088	229.167591	2.63354449	0.51178423	3.68e-06		0.00016066
ENSBTAG00000006685	158.11667	2.40567364	0.64857953	3.7e-06		0.00016117
ENSBTAG000000044023	42.6619607	1.46761856	0.37313799	3.73e-06		0.00016186
ENSBTAG000000048626	68.9405444	2.65241142	0.76032948	3.76e-06		0.00016261
ENSBTAG000000033076	25.246239	1.93566582	0.47525378	3.85e-06		0.00016307
ENSBTAG000000051385	99.4396973	1.57069127	0.39872732	3.82e-06		0.00016307
ENSBTAG000000045565	119.722177	1.76148379	0.43115961	3.79e-06		0.00016307
ENSBTAG00000017639	158.365016	0.91375183	0.21541232	3.81e-06		0.00016307
ENSBTAG000000003752	257.24185	1.99375233	0.49318259	3.83e-06		0.00016307
ENSBTAG00000013689	423.712174	2.17873794	0.5419605	3.85e-06		0.00016307
ENSBTAG000000023744	944.938558	1.76237378	0.2826828	3.85e-06		0.00016307
ENSBTAG00000015592	160.973497	3.82292101	0.96693364	3.88e-06		0.00016377
ENSBTAG00000016944	275.884151	1.72792474	0.429833067	3.93e-06		0.00016544
ENSBTAG00000010508	352.111555	0.63922823	0.14586646	4e-06		0.0001672
ENSBTAG00000018984	2268.19565	1.53760662	0.37604897	4.03e-06		0.00016807
ENSBTAG000000004305	32.0932898	2.21747167	0.55634742	4.15e-06		0.00017062
ENSBTAG00000010328	52.1181138	2.24687371	0.56020021	4.15e-06		0.00017062
ENSBTAG000000046862	518.884211	2.05208948	0.51602057	4.13e-06		0.00017062
ENSBTAG00000010153	1172.21402	1.5676028	0.39277987	4.13e-06		0.00017062
ENSBTAG000000024928	4656.53705	1.31756271	0.32098831	4.11e-06		0.00017062
ENSBTAG000000002163	45.2710051	2.11706595	0.5726723	4.17e-06		0.00017092
ENSBTAG00000011857	189.470133	1.92985694	0.48671812	4.2e-06		0.00017151
ENSBTAG000000007622	6041.99448	2.10760684	0.29172449	4.25e-06		0.0001731
ENSBTAG000000003008	183.297529	1.48570535	0.36723272	4.29e-06		0.00017438
ENSBTAG00000017273	182.500603	1.65635784	0.4124176	4.32e-06		0.00017506
ENSBTAG000000008732	35.0700814	1.57576805	0.3995955	4.34e-06		0.0001751
ENSBTAG00000013240	592.968082	1.07210763	0.25677882	4.35e-06		0.0001751
ENSBTAG000000006420	283.064344	1.72671431	0.42837816	4.38e-06		0.00017588
ENSBTAG00000020350	4214.31859	1.6455596	0.4140388	4.44e-06		0.00017782
ENSBTAG00000011465	81.8644323	2.55516643	0.64368488	4.51e-06		0.00018022
ENSBTAG000000052602	1.02189667	2.51879646	0.63713588	4.6e-06		0.00018171
ENSBTAG00000005952	48.5824315	2.27027838	0.58122684	4.6e-06		0.00018171
ENSBTAG000000051340	69.8735563	2.51218732	0.64313804	4.62e-06		0.00018171
ENSBTAG000000023736	225.907818	2.23814947	0.56399756	4.58e-06		0.00018171
ENSBTAG000000002006	2000.97664	2.48516263	0.70098656	4.6e-06		0.00018171
ENSBTAG000000007280	47.1203489	2.0160663	0.50367009	4.64e-06		0.00018213
ENSBTAG00000012638	40477.2801	3.65208849	1.01798251	4.69e-06		0.0001837
ENSBTAG000000039556	90.5392229	2.61970894	0.66413433	4.74e-06		0.00018431
ENSBTAG00000015513	97.9574261	2.14925075	0.53918138	4.73e-06		0.00018431
ENSBTAG000000009475	172.694818	1.53965263	0.39649431	4.75e-06		0.00018431
ENSBTAG000000021647	143.081783	4.21447299	1.26125321	4.78e-06		0.00018451
ENSBTAG000000001066	1520.32959	1.50655124	0.38131412	4.78e-06		0.00018451
ENSBTAG00000017363	4772.81238	1.14312504	0.27726892	4.82e-06		0.00018537
ENSBTAG00000015938	288.181322	2.22154376	0.56156703	4.85e-06		0.00018614
ENSBTAG00000015032	1345.64681	1.8623486	0.47354912	4.88e-06		0.00018651
ENSBTAG00000005029	496.849229	1.83110216	0.35878957	4.93e-06		0.00018782
ENSBTAG00000001785	6547.07426	4.38694092	1.15186307	4.97e-06		0.00018863
ENSBTAG00000015329	728.926986	2.24240956	0.57219478	5.08e-06		0.00019203
ENSBTAG00000017367	434.025567	1.79715179	0.4529706	5.08e-06		0.00019203
ENSBTAG00000003276	390.757673	1.50448659	0.38380659	5.2e-06		0.00019579
ENSBTAG00000019798	11.4675182	2.71872654	0.72749743	5.25e-06		0.00019639

Over expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000054594	344.960418	1.6588758	0.41329962	5.23e-06	0.00019634
ENSBTAG00000018280	429.061126	4.15691696	1.08003015	5.28e-06	0.00019634
ENSBTAG00000002096	1017.3596	1.54111503	0.38832309	5.28e-06	0.00019634
ENSBTAG00000000289	1069.24559	3.45290003	0.97408859	5.26e-06	0.00019634
ENSBTAG00000013290	482.562116	2.62619051	0.67260423	5.36e-06	0.00019883
ENSBTAG00000007206	44.0528512	2.01131426	0.53466936	5.4e-06	0.00019909
ENSBTAG00000037726	106.557118	1.68600147	0.43130754	5.39e-06	0.00019909
ENSBTAG00000020729	230.169755	1.73737554	0.44362448	5.52e-06	0.00020295
ENSBTAG0000000658	1630.47451	2.06772439	0.53003731	5.54e-06	0.00020329
ENSBTAG00000006859	55.4087443	2.14596758	0.53992871	5.56e-06	0.00020351
ENSBTAG00000015520	1198.03835	1.65427704	0.43124656	5.59e-06	0.00020401
ENSBTAG00000010107	65.2416343	1.92632839	0.49438799	5.62e-06	0.00020441
ENSBTAG00000013055	71.2751664	2.26823223	0.57871904	5.98e-06	0.0002159
ENSBTAG00000010007	130.401668	2.95533669	0.79011302	6.08e-06	0.00021878
ENSBTAG00000045854	449.110572	2.39504734	0.63068499	6.09e-06	0.00021878
ENSBTAG00000050420	140.549912	1.95789375	0.52943701	6.16e-06	0.00022018
ENSBTAG00000015183	356.679554	1.10427008	0.27153608	6.16e-06	0.00022018
ENSBTAG00000013957	190.335282	1.42611568	0.36679683	6.3e-06	0.00022403
ENSBTAG00000006846	2266.02826	2.53230621	0.38727274	6.29e-06	0.00022403
ENSBTAG00000019203	2646.23827	1.46769254	0.37867998	6.41e-06	0.00022738
ENSBTAG00000005868	302.844399	1.76377054	0.44749489	6.46e-06	0.00022845
ENSBTAG00000000672	363.12276	1.7033375	0.43188728	6.51e-06	0.00022959
ENSBTAG00000019106	1654.46472	1.79206481	0.4703806	6.62e-06	0.0002324
ENSBTAG00000024493	245.35398	1.48644728	0.36816088	6.68e-06	0.00023382
ENSBTAG00000013201	1315.33302	3.77584575	1.11006406	6.88e-06	0.00023996
ENSBTAG00000018993	2704.05607	1.63491369	0.4161666	6.87e-06	0.00023996
ENSBTAG00000037804	34.35133	1.6805394	0.44418979	6.95e-06	0.00024158
ENSBTAG00000014898	1990.67885	1.77369609	0.45289924	6.97e-06	0.00024158
ENSBTAG00000005432	921.408421	2.08689169	0.54295881	7.02e-06	0.00024289
ENSBTAG00000011936	208.574219	2.20824899	0.58535068	7.29e-06	0.00025169
ENSBTAG00000033727	66.9107963	1.67889341	0.43978425	7.38e-06	0.00025396
ENSBTAG00000011236	384.78833	1.85253585	0.47641207	7.4e-06	0.00025396
ENSBTAG00000005598	1078.5915	1.12349245	0.27883791	7.41e-06	0.00025396
ENSBTAG00000007661	4116.53383	1.60068541	0.40645444	7.53e-06	0.0002574
ENSBTAG00000006155	86.3888081	2.49919343	0.67390047	7.59e-06	0.00025888
ENSBTAG00000019218	567.844365	1.07429713	0.26576753	7.62e-06	0.00025903
ENSBTAG00000000783	15.7484076	1.448484932	1.16336151	7.66e-06	0.00025918
ENSBTAG00000014090	784.604685	1.3420158	0.3373655	7.66e-06	0.00025918
ENSBTAG00000008611	51.1435893	1.82174678	0.4970133	7.73e-06	0.00025988
ENSBTAG00000027064	94.7837163	2.06079518	0.53236458	7.72e-06	0.00025988
ENSBTAG00000012239	461.056728	1.52320024	0.40739935	7.72e-06	0.00025988
ENSBTAG00000032374	362.849304	0.8080343	0.21437458	7.77e-06	0.00026053
ENSBTAG00000000040	292.342747	0.90110435	0.2219512	7.83e-06	0.00026195
ENSBTAG00000025250	158.675148	2.54717972	0.72065021	7.92e-06	0.00026428
ENSBTAG00000003825	618.542556	1.40988372	0.35729216	7.99e-06	0.00026592
ENSBTAG00000030174	535.784083	0.84674877	0.20547161	8.02e-06	0.0002662
ENSBTAG00000013749	588.783556	1.66680498	0.42763701	8.13e-06	0.00026852
ENSBTAG00000001494	2930.53151	1.36227266	0.34474013	8.11e-06	0.00026852
ENSBTAG00000010549	488.226105	1.25651361	0.31626672	8.17e-06	0.00026919
ENSBTAG00000015312	270.436221	1.8149802	0.46938975	8.3e-06	0.00027283
ENSBTAG00000013064	355.604319	1.19078337	0.29876302	8.31e-06	0.00027283
ENSBTAG00000005106	294.693462	1.64109649	0.42441347	8.36e-06	0.00027355
ENSBTAG00000053497	1028.38311	1.49489373	0.38497355	8.74e-06	0.00028557
ENSBTAG00000034875	116.43503	1.84856084	0.49302204	8.86e-06	0.00028853
ENSBTAG0000001077	67.4786759	1.41718053	0.36945104	8.99e-06	0.00029238
ENSBTAG00000046509	52.2047632	1.99318366	0.58062984	9.15e-06	0.00029508
ENSBTAG00000004783	539.786621	1.08458026	0.27612594	9.16e-06	0.00029508
ENSBTAG00000023832	1709.68264	2.49623366	0.68896478	9.13e-06	0.00029508
ENSBTAG00000003489	239.740023	1.84010322	0.47997967	9.21e-06	0.00029533
ENSBTAG00000014465	421.375513	1.72290195	0.46148491	9.21e-06	0.00029533
ENSBTAG00000017365	46.8329303	1.59982056	0.42776672	9.28e-06	0.00029695
ENSBTAG00000017593	599.996975	2.14208037	0.5658113	9.31e-06	0.00029713
ENSBTAG00000027760	201.849608	1.79327021	0.46704438	9.44e-06	0.00030074
ENSBTAG000000048565	1491.55613	1.7215843	0.44748314	9.5e-06	0.00030177
ENSBTAG00000011007	147.411378	1.37613529	0.36592513	9.52e-06	0.00030184
ENSBTAG00000045948	144.667168	1.66350563	0.43051495	9.56e-06	0.00030242
ENSBTAG00000014324	761.132838	1.1678957	0.29548181	9.58e-06	0.00030242
ENSBTAG00000009773	222.554074	4.35651037	1.30954699	9.62e-06	0.00030294
ENSBTAG00000014642	197.322769	2.08712454	0.55018497	9.8e-06	0.00030721
ENSBTAG00000020936	191.523865	1.75520249	0.45899712	9.92e-06	0.00031014
ENSBTAG00000006505	29686.6723	3.75725734	1.11675273	1.02e-05	0.0003183
ENSBTAG00000033748	108.406063	2.50602865	0.66813267	1.03e-05	0.00031922
ENSBTAG00000052822	125.296685	2.83296624	0.7656783	1.04e-05	0.00032205
ENSBTAG00000040151	130.519771	1.97584661	0.52217695	1.04e-05	0.00032205
ENSBTAG00000036224	483.658888	1.47664607	0.38163347	1.04e-05	0.00032205
ENSBTAG00000011994	1038.76235	1.01392552	0.25407405	1.04e-05	0.00032205
ENSBTAG00000020554	763.932549	1.30057291	0.34065393	1.06e-05	0.00032659
ENSBTAG00000010888	3120.17695	1.44811871	0.3742527	1.06e-05	0.00032672
ENSBTAG00000012314	279.284488	1.58634984	0.42280925	1.07e-05	0.00032726
ENSBTAG00000018463	16728.5265	1.62479704	0.42415541	1.07e-05	0.00032814
ENSBTAG00000003033	64.9775784	2.85210127	0.75337649	1.1e-05	0.00033706
ENSBTAG00000007036	192.311621	1.71767299	0.31512201	1.12e-05	0.00033892
ENSBTAG00000051295	629.954529	1.83269971	0.49495278	1.11e-05	0.00033892
ENSBTAG00000018152	828.936329	1.57209235	0.41192258	1.12e-05	0.00033892
ENSBTAG00000021187	981.344944	1.25761292	0.32272755	1.12e-05	0.00033892
ENSBTAG00000005564	427.531841	0.79485778	0.19686639	1.14e-05	0.00034326
ENSBTAG00000008851	452.924881	1.31970761	0.93142532	1.15e-05	0.00034585
ENSBTAG00000008513	267.738649	1.57142825	0.4245975	1.15e-05	0.00034659
ENSBTAG00000002596	401.754281	1.97287072	0.5250231	1.16e-05	0.00034805
ENSBTAG00000020567	226.987124	1.28466137	0.33710324	1.17e-05	0.00034954
ENSBTAG00000017135	4402.56625	0.95843309	0.24370914	1.17e-05	0.00034954
ENSBTAG000000014880	328.492022	1.79422607	0.5177088	1.18e-05	0.00035028
ENSBTAG000000009975	25.0585113	2.69362035	0.71996959	1.18e-05	0.00035139
ENSBTAG00000007881	472.939743	2.2585816	0.62788621	1.19e-05	0.00035172
ENSBTAG00000003842	567.639874	1.04876144	0.26896806	1.19e-05	0.00035172

Over expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG00000012442	4278.63088	1.15788796	0.30261434	1.19e-05	0.00035172
ENSBTAG00000002171	61.5751785	2.03010105	0.54053715	1.2e-05	0.00035417
ENSBTAG000000025191	1983.44575	1.29290302	0.33869076	1.2e-05	0.00035417
ENSBTAG00000004472	1945.01269	1.71526374	0.4660982	1.21e-05	0.00035498
ENSBTAG00000039980	125.510998	1.43707229	0.38627438	1.22e-05	0.00035736
ENSBTAG00000053324	46.8706807	1.92767356	0.53905206	1.23e-05	0.00036071
ENSBTAG00000021672	497.206518	1.47491505	0.40566254	1.25e-05	0.00036482
ENSBTAG00000002647	407.887168	1.46805158	0.38922223	1.26e-05	0.00036559
ENSBTAG00000034347	43.9667837	2.3925315	0.68403928	1.27e-05	0.00036783
ENSBTAG00000031575	188.222644	1.60850332	0.42356279	1.27e-05	0.00036787
ENSBTAG00000013863	10516.4332	1.79721165	0.47838997	1.27e-05	0.00036841
ENSBTAG00000008329	1623.09526	1.11102437	0.28392796	1.28e-05	0.00036862
ENSBTAG00000004777	17.2627594	4.40242548	1.29593663	1.3e-05	0.0003729
ENSBTAG00000002435	750.493572	1.43330143	0.37933853	1.29e-05	0.0003729
ENSBTAG00000021574	110.619413	1.92390103	0.51586619	1.3e-05	0.00037458
ENSBTAG00000002266	45.189523	2.38411554	0.6497377	1.31e-05	0.00037505
ENSBTAG00000000087	322.093289	0.87461075	0.22043331	1.34e-05	0.00038202
ENSBTAG00000016932	237.710974	0.5897843	0.1438881	1.37e-05	0.00038997
ENSBTAG00000031358	384.542524	1.79413356	0.48089614	1.38e-05	0.00039381
ENSBTAG00000039819	42.4314085	1.80322149	0.51164595	1.4e-05	0.00039668
ENSBTAG00000026753	831.455743	3.58683618	1.02445869	1.43e-05	0.00040527
ENSBTAG00000007208	39.7480057	2.07417251	0.63177316	1.43e-05	0.0004058
ENSBTAG00000055158	1138.23098	1.07854131	0.27826783	1.45e-05	0.00040858
ENSBTAG000000025263	42.9670606	1.16883138	0.30308888	1.45e-05	0.00040974
ENSBTAG00000000897	770.864009	1.26969873	0.33257328	1.46e-05	0.00041
ENSBTAG00000012595	1882.39666	1.75937922	0.47347984	1.48e-05	0.00041594
ENSBTAG00000000874	2102.31891	1.18401073	0.30709704	1.49e-05	0.00041651
ENSBTAG00000020418	132.946144	1.09961649	0.28690678	1.52e-05	0.00042492
ENSBTAG000000002702	378.256446	1.79876497	0.48682644	1.53e-05	0.00042507
ENSBTAG00000018488	378.297484	0.84051459	0.2125517	1.6e-05	0.00044356
ENSBTAG000000006497	5.65689471	3.85513565	1.08562139	1.61e-05	0.00044378
ENSBTAG00000019125	6.83440884	5.36117332	1.81125142	1.6e-05	0.00044378
ENSBTAG000000003177	301.084084	1.64369722	0.4416014	1.63e-05	0.00044756
ENSBTAG000000091818	786.462999	1.56274915	0.18431832	1.63e-05	0.00044784
ENSBTAG000000038186	674.875491	1.3783032	0.35927955	1.64e-05	0.00044961
ENSBTAG00000046672	359.887341	1.22740463	0.33236405	1.71e-05	0.00046398
ENSBTAG000000025099	926.015783	0.85539039	0.21821717	1.7e-05	0.00046398
ENSBTAG000000301124	514.233318	1.21525527	0.19414414	1.71e-05	0.0004653
ENSBTAG000000028888	14.2502962	2.2765433	0.6329472	1.73e-05	0.00046757
ENSBTAG000000004349	4514.9153	0.5752993	0.19066997	1.76e-05	0.00047492
ENSBTAG000000004386	50.856567	1.97963677	0.57650222	1.77e-05	0.00047883
ENSBTAG000000009789	52.1641848	1.41082335	0.39522006	1.8e-05	0.00048598
ENSBTAG000000000306	509.106236	1.54413632	0.43628244	1.83e-05	0.00049112
ENSBTAG00000017992	1019.02939	1.64346255	0.45076071	1.88e-05	0.00050593
ENSBTAG000000001173	17.1838148	2.09332592	0.60343319	1.9e-05	0.0005075
ENSBTAG000000006608	280.366294	2.12460677	0.60350092	1.91e-05	0.0005075
ENSBTAG000000000436	179.55828	2.23227117	0.71179747	1.9e-05	0.0005075
ENSBTAG00000014390	277.337061	1.34655159	0.36856044	1.91e-05	0.00050786
ENSBTAG00000018223	1499.18939	2.4274699	0.71181341	1.92e-05	0.00050957
ENSBTAG00000016770	295.70009	1.83927945	0.50513947	1.95e-05	0.00051471
ENSBTAG000000022233	235.485682	4.34480249	1.28055489	1.98e-05	0.00051768
ENSBTAG00000009381	1032.37677	1.32351436	0.3508634	1.97e-05	0.00051768
ENSBTAG000000065223	5105.66892	3.08538753	1.04397025	1.98e-05	0.00051768
ENSBTAG000000008683	3462.40032	1.02291208	0.26694408	1.98e-05	0.00051807
ENSBTAG000000000820	1910.14953	0.88771935	0.53263811	2e-05	0.00052108
ENSBTAG00000018137	622.811586	1.33440172	0.36394166	2.02e-05	0.00052542
ENSBTAG000000054976	60.1633376	1.67071941	0.48425132	2.03e-05	0.00052702
ENSBTAG000000021416	44.8947397	1.63961127	0.46655172	2.04e-05	0.00052844
ENSBTAG000000000849	79.2038256	1.48982012	0.40836869	2.04e-05	0.00052844
ENSBTAG00000012456	24.5377158	2.44462592	0.72927791	2.06e-05	0.00053118
ENSBTAG00000003880	1323.38645	1.51269087	0.43048104	2.06e-05	0.00053118
ENSBTAG000000000898	58.7119262	1.66565589	0.41733735	2.09e-05	0.00053486
ENSBTAG00000046343	52.0105924	2.53647651	0.71312836	2.11e-05	0.00053486
ENSBTAG000000398283	116.680529	2.78945877	0.82159158	2.08e-05	0.00053486
ENSBTAG000000021857	146.392502	1.57252541	0.42249183	2.1e-05	0.00053486
ENSBTAG000000000816	464.808106	1.66984378	0.49427051	2.11e-05	0.00053486
ENSBTAG000000011103	478.708203	2.1143276	0.3323925	2.11e-05	0.00053486
ENSBTAG00000049808	548.396185	3.87721895	2.31218548	2.11e-05	0.00053486
ENSBTAG000000052516	659.661381	2.93013105	0.8623219	2.11e-05	0.00053486
ENSBTAG000000008792	1005.94167	1.28265227	0.34684892	2.11e-05	0.00053486
ENSBTAG000000047116	1283.4751	3.52681116	1.27681755	2.1e-05	0.00053486
ENSBTAG000000046307	2110.12478	1.77525507	0.49448701	2.12e-05	0.00053593
ENSBTAG00000002767	160.24856	1.10284186	0.29396801	2.14e-05	0.00054025
ENSBTAG00000049782	3132.10482	2.02471401	0.5947558	2.17e-05	0.00054888
ENSBTAG00000012043	36.9227964	2.62717155	0.74571088	2.17e-05	0.00054605
ENSBTAG00000001034	140.305356	2.32347755	0.6589429	2.2e-05	0.00055233
ENSBTAG000000006177	1484.86544	0.7657328	0.19536179	2.23e-05	0.00055658
ENSBTAG00000001839	125.111011	1.48654865	0.40736951	2.24e-05	0.00055736
ENSBTAG00000019349	182.979416	1.63575493	0.45158976	2.24e-05	0.00055736
ENSBTAG000000011001	28.5723344	3.2903178	0.65162876	2.24e-05	0.00055761
ENSBTAG00000053351	34.2949828	2.19579561	0.62307954	2.26e-05	0.00055761
ENSBTAG00000003499	134.064795	1.4567101	0.40302401	2.26e-05	0.00055761
ENSBTAG00000019033	157.763081	1.70850798	0.49929296	2.26e-05	0.00055761
ENSBTAG000000008649	399.425159	1.0199174	0.26979308	2.26e-05	0.00055761
ENSBTAG00000002326	580.722234	1.46522276	0.40259456	2.26e-05	0.00055761
ENSBTAG00000003454	232.928644	1.96155793	0.56055706	2.29e-05	0.00056044
ENSBTAG000000022847	222.28736	0.70974398	0.18099738	2.32e-05	0.00056934
ENSBTAG00000009012	718.667372	0.21865252	0.52594808	2.34e-05	0.00057329
ENSBTAG000000018189	18.4651309	4.38700626	1.93578628	2.35e-05	0.00057343
ENSBTAG00000017866	17.5632229	3.46978071	0.9872608	2.35e-05	0.0005743
ENSBTAG00000030814	40.1199754	2.3486325	0.78991484	2.39e-05	0.00058213
ENSBTAG000000046407	62.3090883	3.12890103	0.9591475	2.4e-05	0.00058397
ENSBTAG000000016168	1136.80915	1.12613175	0.303294	2.41e-05	0.00058449
ENSBTAG000000006526	341.533122	1.54196373	0.42437417	2.42e-05	0.00058596
ENSBTAG00000002859	59.1066334	2.03303887	0.61469178	2.42e-05	0.00058647

Over expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000021182	45.6931285	1.30454417	0.35816158	2.44e-05	0.00058874
ENSBTAG00000014354	439.947682	1.42558814	0.40792775	2.46e-05	0.00059063
ENSBTAG000000035081	1114.71065	1.98446124	0.57290522	2.45e-05	0.00059063
ENSBTAG000000003326	1208.52887	1.24528288	0.33596466	2.46e-05	0.00059063
ENSBTAG000000005246	680.747221	0.8737695	0.23176731	2.49e-05	0.00059721
ENSBTAG000000012640	18813.2717	3.50531142	1.20274304	2.59e-05	0.00061965
ENSBTAG000000008783	15.3950919	2.09334703	0.62158741	2.61e-05	0.0006237
ENSBTAG000000001861	33.9561204	1.90211785	0.53606028	2.7e-05	0.00064271
ENSBTAG000000021396	112.440997	1.04633475	0.2818859	2.71e-05	0.00064364
ENSBTAG000000021469	25.2870818	2.2307613	0.64063968	2.73e-05	0.00064832
ENSBTAG000000001294	1188.20815	1.63122797	0.45554262	2.74e-05	0.00064832
ENSBTAG000000050712	2078.08607	1.13792974	0.30627171	2.74e-05	0.00064832
ENSBTAG000000005443	328.377875	0.78604617	0.20411184	2.76e-05	0.00065096
ENSBTAG000000015083	1659.40689	1.04633475	0.18783667	2.76e-05	0.00065096
ENSBTAG000000009427	511.553516	0.69755133	0.17992325	2.77e-05	0.00065322
ENSBTAG000000016374	196.502728	1.2658713	0.34587549	2.83e-05	0.00066429
ENSBTAG000000012720	25.2043645	2.17039883	0.61811536	2.91e-05	0.00068069
ENSBTAG000000011192	43.3028085	2.3376923	0.66653021	2.91e-05	0.00068069
ENSBTAG000000007952	1767.38877	1.59703406	0.18783667	2.91e-05	0.00068069
ENSBTAG000000010830	1843.00527	1.28122778	0.3669699	2.93e-05	0.00068307
ENSBTAG000000004150	94.9041127	1.84128553	0.52225658	2.94e-05	0.00068412
ENSBTAG000000005373	318.326696	1.27798209	0.34662436	2.94e-05	0.00068412
ENSBTAG000000012022	193.286132	1.32156088	0.37892543	2.97e-05	0.00069077
ENSBTAG000000004791	45.2732906	1.78189718	0.51796294	2.98e-05	0.00069165
ENSBTAG000000019202	626.797151	1.31722659	0.36246658	3e-05	0.00069578
ENSBTAG000000019672	105.619595	1.71710826	0.48795145	3.09e-05	0.00071533
ENSBTAG000000017659	42.0367943	1.27776244	0.50277523	3.11e-05	0.00071805
ENSBTAG000000010785	297.721074	1.40076317	0.39038781	3.13e-05	0.00071805
ENSBTAG000000016532	493.044009	1.39729703	0.39469063	3.13e-05	0.00071805
ENSBTAG000000019669	861.776883	1.62183766	0.45806105	3.12e-05	0.00071805
ENSBTAG000000016799	98.5475931	1.01444589	0.28075203	3.17e-05	0.00072678
ENSBTAG000000008416	129.818224	1.30310459	0.36177848	3.18e-05	0.00072714
ENSBTAG00000000539	138.619934	1.55116523	0.44354493	3.18e-05	0.00072714
ENSBTAG00000000224	41.4865103	1.99118958	0.63458413	3.2e-05	0.00072951
ENSBTAG000000003711	85.9723924	1.54360326	0.44502559	3.22e-05	0.00073293
ENSBTAG00000000585	102.555966	2.21193068	0.68398859	3.22e-05	0.00073293
ENSBTAG000000054023	70.3968822	2.03233733	0.58647478	3.25e-05	0.00073711
ENSBTAG000000006221	293.603875	4.05682288	1.24783432	3.29e-05	0.00074502
ENSBTAG000000014576	34.6934538	2.24142931	0.67139159	3.31e-05	0.00074967
ENSBTAG000000002252	125.972638	1.52501527	0.42761025	3.32e-05	0.00074967
ENSBTAG000000000965	156.289448	1.19045876	0.32889654	3.34e-05	0.00075092
ENSBTAG000000003675	378.507568	0.75123354	0.1973771	3.33e-05	0.00075092
ENSBTAG000000003636	808.74889	1.28690929	0.36861748	3.34e-05	0.00075092
ENSBTAG000000019251	184.137993	1.4941014	0.42173993	3.35e-05	0.00075315
ENSBTAG000000011358	587.57156	1.62056546	0.46097668	3.36e-05	0.00075331
ENSBTAG000000054081	62.8963792	2.04789109	0.58878596	3.41e-05	0.00076314
ENSBTAG000000017147	828.424858	1.18339949	0.32491708	3.42e-05	0.00076315
ENSBTAG000000018255	807.037105	2.06720753	0.60062574	3.44e-05	0.0007672
ENSBTAG000000002407	35.551911	1.83792323	0.59186636	3.5e-05	0.00077956
ENSBTAG000000007169	102.40101	2.70949341	0.8465829	3.53e-05	0.00078409
ENSBTAG000000012060	433.832955	1.13609113	0.31340023	3.53e-05	0.00078444
ENSBTAG000000020430	10.6683674	2.59506268	0.79463541	3.55e-05	0.00078664
ENSBTAG000000013029	114.858863	0.9103153	0.24797003	3.58e-05	0.00079235
ENSBTAG000000048737	103.76155	2.65943877	0.79065296	3.59e-05	0.00079297
ENSBTAG000000024901	24.6583156	2.12060381	0.73708443	3.66e-05	0.00080462
ENSBTAG000000017839	64.5964218	1.99401243	0.57898855	3.65e-05	0.00080462
ENSBTAG000000003840	559.05821	1.45754503	0.42981939	3.65e-05	0.00080462
ENSBTAG000000006343	136.065459	3.78214028	1.31177518	3.69e-05	0.00081043
ENSBTAG000000013298	75.4578364	1.93516197	0.55981212	3.71e-05	0.00081245
ENSBTAG000000039922	250.07553	1.02006386	0.28819996	3.72e-05	0.00081488
ENSBTAG000000002363	204.196337	1.97316539	0.58760854	3.73e-05	0.00081637
ENSBTAG000000019227	487.0008873	2.3877788	0.73427864	3.74e-05	0.00081687
ENSBTAG000000018138	43.0037873	1.3221492	0.38265398	3.77e-05	0.00081804
ENSBTAG0000000004104	215.392364	1.22546743	0.3534274	3.76e-05	0.00081804
ENSBTAG000000014191	1073.5934	1.34567537	0.38426606	3.76e-05	0.00081804
ENSBTAG000000020658	27.1363853	1.97044042	0.56886006	3.79e-05	0.00082261
ENSBTAG000000013706	354.921168	1.36816804	1.03870421	3.83e-05	0.00082902
ENSBTAG000000009048	3671.07394	1.19153983	0.33124693	3.86e-05	0.00083342
ENSBTAG000000014261	3662.12585	1.66164731	0.48403825	3.85e-05	0.00083342
ENSBTAG000000017664	24.90303	1.90303757	0.56190452	3.91e-05	0.00084174
ENSBTAG000000051030	64.3731963	1.81910563	0.56132027	3.98e-05	0.0008554
ENSBTAG000000020580	3038.9176	4.30381014	1.40065971	3.98e-05	0.0008554
ENSBTAG000000012668	80.071372	1.51139823	0.44654896	4e-05	0.00085897
ENSBTAG000000001338	177.367676	1.91681453	0.59511838	4.03e-05	0.00086274
ENSBTAG000000011961	3311.87877	1.82093619	0.54766124	4.05e-05	0.00086607
ENSBTAG000000017753	182.949197	1.35831867	0.39979076	4.12e-05	0.00087952
ENSBTAG000000016204	65.6334816	1.9965727	0.58454575	4.21e-05	0.00089714
ENSBTAG000000010731	987.490281	1.57203735	0.45898966	4.22e-05	0.00089751
ENSBTAG000000010018	287.60925	0.80959253	0.21747134	4.24e-05	0.00089911
ENSBTAG000000035587	1507.36423	1.5694422	0.41679354	4.25e-05	0.00090018
ENSBTAG000000009784	341.655973	1.49321741	0.42744861	4.27e-05	0.00090331
ENSBTAG000000031814	1292.3354	1.30882782	1.04400265	4.3e-05	0.00090826
ENSBTAG000000038080	45.3688741	2.1183076	0.62787324	4.34e-05	0.0009112
ENSBTAG000000000813	76.4079317	1.29182851	0.37326335	4.34e-05	0.0009112
ENSBTAG000000011957	528.577882	1.02114529	0.28155553	4.34e-05	0.0009112
ENSBTAG000000046158	162.979194	1.37327679	1.44910451	4.35e-05	0.00091133
ENSBTAG000000015147	1229.90028	1.8486599	0.33865772	4.45e-05	0.00092987
ENSBTAG000000011990	292.745361	2.25778833	0.87137041	4.56e-05	0.00095119
ENSBTAG000000018940	62.6462053	1.41059383	0.40313922	4.57e-05	0.00095135
ENSBTAG000000019910	1662.57456	1.35144082	0.38559119	4.58e-05	0.0009515
ENSBTAG0000000504194	140.687627	1.13996768	0.32601979	4.59e-05	0.00095323
ENSBTAG000000016477	83.9544794	2.81363757	0.85894862	4.62e-05	0.00095799
ENSBTAG000000014560	124.370083	1.62008379	0.47417266	4.63e-05	0.00095885
ENSBTAG000000002243	114.140227	1.06058528	0.29965	4.67e-05	0.00096283
ENSBTAG000000038079	183.391106	1.78671111	0.52821089	4.67e-05	0.00096283

Over expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000040190	946.302841	1.76619297	0.51999507	4.66e-05	0.00096283
ENSBTAG000000003305	2352.65863	1.860172	0.56329493	4.72e-05	0.00097087
ENSBTAG000000050727	5.88828264	4.15002993	1.34665519	4.73e-05	0.00097202
ENSBTAG000000012822	9.11049188	2.44235602	0.72361142	4.76e-05	0.00097702
ENSBTAG000000017468	319.575397	1.54440772	0.45104935	4.82e-05	0.00098378
ENSBTAG000000014903	631.760051	1.34206636	0.39060255	4.82e-05	0.00098378
ENSBTAG000000007901	3067.26066	3.64983814	1.5453646	4.82e-05	0.00098378
ENSBTAG000000010644	161.121925	1.55200711	0.48708696	4.83e-05	0.00098442
ENSBTAG000000008597	202.52211	1.75675722	0.5180085	4.91e-05	0.00099837
ENSBTAG000000021318	25.7503733	1.58360823	0.48633465	4.95e-05	0.0010045
ENSBTAG000000018819	13.0974057	2.05247149	0.63528503	5.07e-05	0.00102264
ENSBTAG000000012508	38.1098291	1.64022899	0.49493805	5.06e-05	0.00102264
ENSBTAG000000015089	1054.76034	1.25141491	0.36310089	5.1e-05	0.00102816
ENSBTAG000000007399	1200.19873	0.95798625	0.26493345	5.16e-05	0.00103875
ENSBTAG000000023648	221.254162	2.1366199	0.67356762	5.17e-05	0.00103912
ENSBTAG000000022779	59.4607704	3.12353051	0.98454989	5.19e-05	0.00104169
ENSBTAG000000003334	47.1574279	1.62509093	0.47445137	5.2e-05	0.00104254
ENSBTAG000000019040	1230.37886	1.0241103	0.28077573	5.22e-05	0.00104386
ENSBTAG000000013165	141.972509	1.43391982	0.43134434	5.28e-05	0.00105186
ENSBTAG000000000746	975.223591	1.6961078	0.5082039	5.27e-05	0.00105186
ENSBTAG000000016229	45.5732675	1.68030276	0.51293307	5.32e-05	0.00105867
ENSBTAG000000048731	14.7216446	1.71525229	0.50439555	5.33e-05	0.00105957
ENSBTAG000000011784	3421.96017	1.6258242	0.48167991	5.34e-05	0.00106007
ENSBTAG000000008102	8.22771667	3.78079157	1.59295249	5.38e-05	0.00106682
ENSBTAG000000006921	371.238218	1.66822353	0.49416373	5.41e-05	0.00107127
ENSBTAG000000049814	23.7641162	1.75861153	0.51973008	5.45e-05	0.00107616
ENSBTAG000000006550	1441.85954	0.9860733	0.27441183	5.49e-05	0.00108164
ENSBTAG000000015318	304.191383	2.20410622	0.6739514	5.54e-05	0.00108872
ENSBTAG000000020247	58.2325995	1.11700675	0.32709474	5.57e-05	0.00109377
ENSBTAG000000019246	387.515934	0.83168401	0.22484992	5.59e-05	0.00109603
ENSBTAG000000019567	226.140757	2.04328073	0.62329572	5.61e-05	0.00109693
ENSBTAG00000007336	89.2398101	1.06610703	0.29016921	5.83e-05	0.00113946
ENSBTAG000000006654	606.943007	0.85643703	0.23337735	5.86e-05	0.00114267
ENSBTAG000000008306	756.447745	1.51323862	0.38267832	5.91e-05	0.00115092
ENSBTAG000000008956	256.531795	1.53654742	0.48406258	5.98e-05	0.00116306
ENSBTAG000000007103	3903.03793	1.26198897	0.36776231	5.99e-05	0.00116306
ENSBTAG000000027151	632.532919	1.00310822	0.28213177	6.03e-05	0.00116914
ENSBTAG000000050944	131.552346	3.55875225	1.16031401	6.08e-05	0.00117433
ENSBTAG000000021778	273.315698	1.27880329	0.38674288	6.08e-05	0.00117433
ENSBTAG000000021107	259.501759	1.10822953	0.31589184	6.1e-05	0.00117645
ENSBTAG000000000880	282.639689	0.67719736	0.18252051	6.19e-05	0.00119063
ENSBTAG000000015562	954.762157	1.2608442	0.39337288	6.21e-05	0.00119283
ENSBTAG000000017592	246.600515	2.27943759	0.79138562	6.24e-05	0.00119715
ENSBTAG000000052584	204.309441	1.60573119	0.52826904	6.39e-05	0.00122302
ENSBTAG000000000336	95.7949186	2.20875116	0.67730187	6.41e-05	0.00122468
ENSBTAG000000006671	277.221076	1.26269012	0.36701945	6.42e-05	0.00122468
ENSBTAG000000002037	443.599433	0.74362653	0.20228389	6.42e-05	0.00122468
ENSBTAG000000004475	193.571626	1.55648943	0.45675468	6.45e-05	0.00122868
ENSBTAG000000020536	486.578102	1.16628804	0.33373483	6.56e-05	0.00124716
ENSBTAG000000004283	25.6700677	1.28255028	0.38190257	6.59e-05	0.00125049
ENSBTAG000000004607	492.74013	1.19963403	0.35012608	6.6e-05	0.00125051
ENSBTAG000000004427	843.349306	1.00363928	0.28413899	6.62e-05	0.00125427
ENSBTAG000000004177	39.1998421	1.5638748	0.48360536	6.64e-05	0.00125483
ENSBTAG000000020931	24.6993379	1.72104713	0.51932492	6.72e-05	0.00126472
ENSBTAG000000003169	102.667361	1.37356985	0.41492523	6.7e-05	0.00126472
ENSBTAG0000000002187	898.329769	0.98476374	0.27833761	6.72e-05	0.00126472
ENSBTAG000000016683	5984.48816	1.5704846	0.49079006	6.75e-05	0.00126653
ENSBTAG0000000011484	519.990702	0.95365349	0.2666125	6.82e-05	0.00127703
ENSBTAG000000024643	84.3336571	0.25617617	0.56078649	6.83e-05	0.00127832
ENSBTAG000000052866	80.3706383	1.30498668	0.40764648	6.85e-05	0.00128024
ENSBTAG000000020199	440.012298	1.35128506	0.42189873	6.88e-05	0.00128333
ENSBTAG000000002788	72.303998	1.61280922	0.50428503	6.92e-05	0.00128902
ENSBTAG000000007184	65.8372911	1.64110862	0.49993095	6.94e-05	0.00129202
ENSBTAG000000015792	37.2656131	1.42951122	0.42440174	7.04e-05	0.00130239
ENSBTAG000000000088	107.136273	1.13738983	0.34213823	7.02e-05	0.00130239
ENSBTAG000000016414	85.1328774	2.3662889	0.75452034	7.05e-05	0.00130326
ENSBTAG000000027444	688.25076	1.00198645	0.28431219	7.06e-05	0.00130326
ENSBTAG000000013996	779.804496	0.96926786	0.27453431	7.14e-05	0.00131545
ENSBTAG000000016094	94.3478204	0.96485176	0.27596398	7.23e-05	0.00133141
ENSBTAG000000006990	19.7912119	2.90608609	0.9706527	7.24e-05	0.00133168
ENSBTAG000000007490	20.1440135	1.79204781	0.61214347	7.26e-05	0.00133341
ENSBTAG000000009051	96.2393987	1.54741565	0.47005716	7.28e-05	0.00133466
ENSBTAG000000015188	3032.45287	1.42026894	0.42390365	7.29e-05	0.00133466
ENSBTAG000000013555	184.336142	2.01608512	0.63197492	7.31e-05	0.00133645
ENSBTAG000000003063	503.57814	1.0167381	0.29062273	7.37e-05	0.0013462
ENSBTAG000000019079	707.741647	0.77239255	0.216783	7.48e-05	0.00136501
ENSBTAG000000013284	229.921472	1.01647978	0.29355314	7.51e-05	0.00136658
ENSBTAG000000015711	433.458716	1.57349982	0.47864495	7.51e-05	0.00136658
ENSBTAG000000035998	515.440933	1.40639114	0.42210685	7.6e-05	0.00137503
ENSBTAG000000013367	147.702675	0.922943	0.2628537	7.6e-05	0.00137503
ENSBTAG000000043971	20.040698	1.4186063	0.43060925	7.61e-05	0.00137514
ENSBTAG000000032808	64.2256648	1.51356876	0.48743161	7.65e-05	0.00137588
ENSBTAG000000000830	262.304666	1.00350233	0.28673168	7.65e-05	0.00137588
ENSBTAG000000007455	708.302754	1.42252296	0.42642636	7.66e-05	0.00137588
ENSBTAG000000012450	90.066568	1.64266109	0.53401919	7.76e-05	0.00138933
ENSBTAG000000003587	500.73384	0.85690805	0.24036622	7.75e-05	0.00138933
ENSBTAG000000000419	386.141057	1.1773589	0.34862429	7.84e-05	0.00139427
ENSBTAG000000002220	396.508062	0.7906847	0.22130358	7.84e-05	0.00139427
ENSBTAG000000011146	137.039573	1.04689071	0.30235923	7.85e-05	0.00139427
ENSBTAG000000004556	8590.7016	1.51915037	0.46585466	7.85e-05	0.00139427
ENSBTAG000000016315	21528.8232	1.13954714	0.33343039	7.8e-05	0.00139427
ENSBTAG000000021202	736.99345	1.59546767	0.47373684	7.89e-05	0.00139708
ENSBTAG000000005970	569.46042	1.08423533	0.32460257	7.88e-05	0.00139708
ENSBTAG000000019675	155.484268	1.58541279	0.48276604	7.93e-05	0.00140275
ENSBTAG000000010756	59.62862	1.43704422	0.45707692	7.94e-05	0.00140292

Over expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000017694	264.565972	0.8720195	0.24683787	7.96e-05	0.0014039
ENSBTAG000000003396	161.158761	1.42181201	0.45276245	8.11e-05	0.0014258
ENSBTAG000000015649	807.740501	1.2593591	0.37424117	8.15e-05	0.00143148
ENSBTAG000000016344	53.5814118	1.42655273	0.45292285	8.19e-05	0.00143378
ENSBTAG000000006645	244.55861	1.45493222	0.44032235	8.19e-05	0.00143378
ENSBTAG000000013824	90.8782638	1.15423409	0.34449707	8.3e-05	0.00144776
ENSBTAG000000046654	673.515492	1.05289827	0.3095282	8.35e-05	0.00145275
ENSBTAG000000002980	143.872423	1.27528562	0.40509679	8.41e-05	0.00146254
ENSBTAG000000005091	32.5674596	2.12566826	0.66768384	8.47e-05	0.00147037
ENSBTAG000000004024	283.012238	0.86387853	0.24480925	8.48e-05	0.0014711
ENSBTAG000000013007	682.089237	0.92916081	0.26554295	8.49e-05	0.00147111
ENSBTAG000000014178	383.000578	1.25777357	0.37444136	8.54e-05	0.00147689
ENSBTAG000000019552	259.216067	1.38126743	0.43629745	8.57e-05	0.00147995
ENSBTAG000000005163	1033.11434	2.10689025	0.73164291	8.58e-05	0.00148043
ENSBTAG000000008310	579.227246	0.75057926	0.21043886	8.61e-05	0.00148096
ENSBTAG000000001838	11.1230209	1.91585508	0.60121239	8.65e-05	0.00148363
ENSBTAG000000002937	311.238311	1.77946958	0.59191675	8.65e-05	0.00148363
ENSBTAG000000003557	336.003727	1.1585622	0.34086785	8.68e-05	0.00148713
ENSBTAG0000000013568	54.6554647	1.51738914	0.46068889	8.72e-05	0.00149093
ENSBTAG000000000507	257.969037	1.11852716	0.33678835	8.74e-05	0.00149416
ENSBTAG000000012847	103.637823	1.3456057	0.42807922	8.8e-05	0.00150156
ENSBTAG000000046548	620.701213	1.01519033	0.29463022	8.82e-05	0.00150345
ENSBTAG000000002813	55.7682484	1.06636971	0.32420637	8.84e-05	0.00150356
ENSBTAG000000012293	639.398927	0.42279071	0.11166404	8.86e-05	0.00150455
ENSBTAG000000015609	2594.51308	1.12649721	0.33167183	9.03e-05	0.00152793
ENSBTAG000000017970	6539.95643	1.25679691	0.37792544	9.04e-05	0.00152793
ENSBTAG000000001814	220.998767	1.72190724	0.58060875	9.1e-05	0.00153588
ENSBTAG000000012962	5485.30505	0.8114636	0.22098085	9.14e-05	0.00154063
ENSBTAG000000002615	82.1812639	1.75311255	0.56833316	9.19e-05	0.00154811
ENSBTAG000000015739	19.2868744	1.83383634	0.59689621	9.31e-05	0.00156665
ENSBTAG0000000046979	1439.85453	1.0219478	0.30684716	9.45e-05	0.00158674
ENSBTAG000000013369	23.1515454	1.38946271	0.4347747	9.5e-05	0.00159134
ENSBTAG000000026234	111.131409	1.50775112	0.46362416	9.53e-05	0.00159589
ENSBTAG000000001141	368.054296	0.85130309	0.23936228	9.63e-05	0.00160961
ENSBTAG000000013942	17.9939076	2.70804225	0.85476379	9.66e-05	0.00161332
ENSBTAG000000011684	350.519242	0.85450777	0.24421433	9.75e-05	0.00162655
ENSBTAG0000000032914	224.644174	0.85701339	0.25063546	9.78e-05	0.00162935
ENSBTAG0000000045877	5397.81895	0.90982458	0.26652144	9.83e-05	0.00163501
ENSBTAG000000010681	304.351491	1.22343063	0.37313502	9.87e-05	0.00164115
ENSBTAG000000013953	193.575178	1.90546548	0.6356923	9.99e-05	0.00165794
ENSBTAG000000011227	21.685943	1.90991955	0.62430595	0.0001005	0.00166444
ENSBTAG0000000046328	239.176264	1.37984202	0.45061228	0.00010245	0.00169278
ENSBTAG000000013631	3032.85491	0.95222163	0.27891138	0.00010271	0.00169499
ENSBTAG000000009863	1185.96955	1.08379182	0.32826083	0.00010453	0.00172301
ENSBTAG000000014207	172.098084	1.32436981	0.42534187	0.00010465	0.00172302
ENSBTAG000000007592	338.459862	1.42904725	0.44141767	0.00010522	0.00173039
ENSBTAG000000014269	1002.89264	1.42367615	0.44457431	0.00010636	0.00174703
ENSBTAG000000014466	9.09558868	2.65053575	0.83695358	0.00010671	0.00174721
ENSBTAG000000017218	76.495214	1.24084473	0.38507679	0.00010682	0.00174721
ENSBTAG000000019565	1677.56908	0.99973725	0.29389747	0.00010687	0.00174721
ENSBTAG0000000021807	448.280969	1.89631416	0.65853852	0.00010714	0.00174956
ENSBTAG000000010763	72.9963384	0.97239790	0.29944705	0.00010757	0.00175453
ENSBTAG000000008931	927.368773	1.49712237	0.47329415	0.00010814	0.00176172
ENSBTAG000000046533	3167.53382	1.95650589	0.67444384	0.00010829	0.00176218
ENSBTAG000000038797	21.8890134	1.49111072	0.46241635	0.00011163	0.00181236
ENSBTAG000000013099	540.32368	0.95035825	0.28247713	0.00011261	0.00182613
ENSBTAG000000021224	141.705511	0.98242206	0.29137774	0.00011293	0.0018292
ENSBTAG000000019612	783.637755	1.30110164	0.41866781	0.00011401	0.00184237
ENSBTAG000000020699	4.74269983	4.39510411	1.63700671	0.00011433	0.00184535
ENSBTAG000000002223	201.506055	0.97581663	0.29322804	0.00011547	0.00185952
ENSBTAG000000014111	175.486808	1.28326631	0.41913817	0.00011582	0.00186316
ENSBTAG0000000019961	32.9781975	1.28268739	0.00011639	0.00011653	0.00187233
ENSBTAG000000014705	22.4532997	1.65162634	0.52874433	0.00011688	0.00187584
ENSBTAG000000012066	269.971751	1.08335334	0.32975342	0.00011755	0.00188187
ENSBTAG000000043958	660.397206	0.87216942	0.25355983	0.00011786	0.00188292
ENSBTAG000000016896	1845.34795	1.11502579	0.33944835	0.00011815	0.00188534
ENSBTAG0000000051768	91.7729744	1.73042927	0.55913793	0.00011859	0.00188808
ENSBTAG000000012989	401.610894	1.72086648	0.55051335	0.00011852	0.00188808
ENSBTAG000000012779	455.869081	1.33000032	0.41159892	0.00011912	0.00189225
ENSBTAG000000005958	2397.63524	1.36499321	0.42450539	0.00011906	0.00189225
ENSBTAG000000021002	187.331682	1.01197271	0.30431271	0.00011926	0.00189228
ENSBTAG000000011434	12.048949	2.04670232	0.7530788	0.00011995	0.00189479
ENSBTAG000000020835	364.496834	1.33582317	0.41411618	0.00011999	0.00189479
ENSBTAG000000014605	729.959392	0.86908976	0.25608476	0.00011975	0.00189479
ENSBTAG000000020218	444.529245	0.72403885	0.2058737	0.00012038	0.00189728
ENSBTAG000000011623	509.938888	1.23083032	0.38793811	0.00012029	0.00189728
ENSBTAG0000000031928	288.080038	0.95226768	0.28568873	0.00012086	0.00190261
ENSBTAG000000005227	119.23182	0.63124765	0.17826296	0.00012184	0.000191594
ENSBTAG000000025005	117.000902	1.3528255	0.42661256	0.00012208	0.000191761
ENSBTAG000000000073	749.474644	0.77201211	0.22204948	0.00012313	0.00192967
ENSBTAG0000000001414	279.15614	1.52149944	0.48556055	0.00012383	0.00193846
ENSBTAG0000000001613	1160.09074	1.48470823	0.47216945	0.00012471	0.00195005
ENSBTAG000000010828	152.697006	2.03265011	0.66532388	0.00012562	0.00195992
ENSBTAG0000000052306	224.318509	1.43991853	0.45288966	0.00012555	0.00195992
ENSBTAG000000012391	70.777603	0.87474724	0.25044303	0.00012631	0.00196859
ENSBTAG000000046337	75.233771	1.48678034	0.48693708	0.00012608	0.00197393
ENSBTAG0000000005146	1972.88709	1.8667073	0.63950086	0.00012703	0.00197533
ENSBTAG000000011088	718.499549	0.82731821	0.24278001	0.00012719	0.0019757
ENSBTAG000000017287	124.356582	1.33215801	0.41977507	0.00012771	0.00198153
ENSBTAG0000000030426	148.732667	1.44084766	0.4566459	0.00012912	0.00200076
ENSBTAG0000000005761	855.155619	1.14750345	0.3502784	0.00012923	0.00200076
ENSBTAG0000000038107	776.494054	0.94376283	0.28025737	0.00012989	0.00200865
ENSBTAG0000000005163	84.4466028	1.67821826	0.56770166	0.00013115	0.00202148
ENSBTAG0000000002823	91.8873635	1.44080624	0.47269774	0.00013255	0.00202408
ENSBTAG000000010068	156.982407	1.44178031	0.47168772	0.00013339	0.00205155

Over expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000018761	375.106258	0.82236708	0.23989695	0.00013374	0.00205468
ENSBTAG000000044017	17.4529807	1.98977329	0.74676352	0.00013407	0.0020574
ENSBTAG000000010801	115.809714	1.24860891	0.39837941	0.00013481	0.00206656
ENSBTAG000000023026	8.69027074	3.49980482	1.22567793	0.00013518	0.00206879
ENSBTAG000000019964	86.2407488	1.2642109	0.40920914	0.00013525	0.00206879
ENSBTAG000000008729	742.538206	1.05252265	0.31763474	0.00013591	0.00207659
ENSBTAG000000025942	37.1141884	1.9234395	0.73074578	0.00013622	0.00207775
ENSBTAG000000005339	103.058113	1.5823247	0.50447161	0.00013628	0.00207775
ENSBTAG000000004659	290.834711	0.91800165	0.27807208	0.00013652	0.00207916
ENSBTAG000000007635	29.5407673	1.38894331	0.47258083	0.00013813	0.00209162
ENSBTAG000000010868	181.225612	0.85760346	0.25429972	0.00013838	0.00209162
ENSBTAG000000014665	299.235777	1.16815545	0.3750499	0.00013823	0.00209162
ENSBTAG000000008541	331.559448	1.02777634	0.31247023	0.00013768	0.00209162
ENSBTAG000000009995	647.795142	0.94870057	0.28287041	0.00013839	0.00209162
ENSBTAG000000048460	48.6867378	1.85335639	0.60453432	0.00013858	0.00209231
ENSBTAG0000000049257	4.80322925	2.80954377	0.97931675	0.00013895	0.00209557
ENSBTAG000000003961	388.814393	1.03396942	0.3131893	0.00013993	0.00210811
ENSBTAG000000050426	168.839428	1.49574428	0.47844658	0.0001401	0.00210841
ENSBTAG000000012774	59.1431689	1.4315486	0.47450828	0.00014087	0.00211767
ENSBTAG000000005471	4.31605087	3.42505808	1.10631819	0.00014181	0.00212736
ENSBTAG000000000754	1728.54657	0.94437523	0.28224028	0.00014181	0.00212736
ENSBTAG000000005622	1611.52381	1.40153494	0.44995982	0.00014252	0.00213333
ENSBTAG000000004680	433.693056	1.34810121	0.44871158	0.00014295	0.00213754
ENSBTAG000000001410	24.4660006	1.35083287	0.43001968	0.00014437	0.00215186
ENSBTAG000000015604	164.583276	1.13066462	0.3618218	0.00014429	0.00215186
ENSBTAG000000019432	308.612189	1.03064035	0.3265943	0.00014503	0.00215707
ENSBTAG000000021535	48.0602941	1.6336188	0.55164278	0.00014648	0.0021718
ENSBTAG000000011145	60.934226	0.8650434	0.26023558	0.0001464	0.0021718
ENSBTAG000000017574	113.715968	1.56126771	0.54448055	0.00014801	0.00219077
ENSBTAG000000052758	76.523626	2.02891899	0.71024375	0.00014883	0.00219236
ENSBTAG000000019376	49.4257659	1.3509133	0.45513276	0.00014939	0.00220731
ENSBTAG000000011677	367.137348	1.48098042	0.47792729	0.00015045	0.00221427
ENSBTAG0000000001321	223.60742	2.73416743	1.2717621	0.00015111	0.00222056
ENSBTAG000000020116	33339.9635	1.27705786	0.41104927	0.00015361	0.00225123
ENSBTAG000000051981	856.169946	1.49374071	0.48530321	0.00015395	0.00225385
ENSBTAG000000010125	1332.13605	0.80566549	0.2565514	0.00015432	0.00225458
ENSBTAG0000000001497	48.8419448	1.58562066	0.53213619	0.00015454	0.00225552
ENSBTAG000000055296	983.746781	1.47919231	0.4960815	0.00015498	0.00225598
ENSBTAG000000018101	3690.11792	1.27224084	0.40245476	0.00015517	0.00226002
ENSBTAG000000005181	262.919364	0.8352253	0.24919969	0.00015619	0.00227239
ENSBTAG000000010956	422.342841	1.08259609	0.33295407	0.00015731	0.0022864
ENSBTAG000000038490	150.440092	1.58297509	0.51626897	0.00015842	0.00230018
ENSBTAG00000000011765	1255.68327	0.30808162	0.24775615	0.00015859	0.00230018
ENSBTAG000000053581	42.7417265	1.69379219	0.61423892	0.00015904	0.00230438
ENSBTAG000000013046	950.866064	0.8009627	0.24458081	0.00016068	0.00232744
ENSBTAG000000014069	446.555518	1.74253701	0.60071399	0.000161	0.00232791
ENSBTAG000000046185	330.278901	0.6434966	0.18495064	0.00016286	0.00235234
ENSBTAG000000007058	915.630861	0.75047837	0.21972881	0.00016382	0.00236135
ENSBTAG000000006045	3010.4957	0.71170075	0.20921402	0.00016377	0.00236135
ENSBTAG000000009615	2110.18395	1.12895152	0.35934795	0.00016568	0.00238326
ENSBTAG000000014636	60.276001	1.87768526	0.62438873	0.00016618	0.00238809
ENSBTAG000000054018	10.5178541	1.93185497	0.63556979	0.00016672	0.00239337
ENSBTAG000000004895	1.7114719	1.72081543	0.57855625	0.00016731	0.00239685
ENSBTAG000000003692	7251.43275	1.11050914	0.34562457	0.00016727	0.00239685
ENSBTAG000000011798	300.407036	1.33527212	0.42982119	0.00016803	0.00240471
ENSBTAG000000051333	742.448022	0.97843114	0.3009643	0.0001687	0.00241185
ENSBTAG000000005055	204.465631	1.21662406	0.40492967	0.00016928	0.00241765
ENSBTAG000000017196	4002.8785	0.69687139	0.20499883	0.00016983	0.00242308
ENSBTAG000000011742	89.461602	1.48929327	0.44976959	0.00017101	0.00243738
ENSBTAG0000000001368	1446.99515	1.36924235	0.44214253	0.00017207	0.00245005
ENSBTAG0000000202039	24.2767761	1.5445863	0.50071354	0.00017232	0.00245109
ENSBTAG000000019516	478.78673	0.55713034	0.15817075	0.00017304	0.00245893
ENSBTAG0000000034918	505.34332	1.89916298	0.69943604	0.00017416	0.00246974
ENSBTAG000000012771	1920.36976	1.1738024	0.38818057	0.00017399	0.00246974
ENSBTAG000000053556	13.4595173	3.71787257	1.31043229	0.00017451	0.00247222
ENSBTAG000000038149	56.2105777	1.47995219	0.48652702	0.00017501	0.00247678
ENSBTAG000000014267	37.233536	1.61003376	0.4712125	0.00017549	0.00248112
ENSBTAG0000000011975	1751.13644	1.77454877	0.63055626	0.00017659	0.00249163
ENSBTAG0000000037800	159.93369	2.99364933	1.07530254	0.00017779	0.00250602
ENSBTAG0000000010334	291.194903	1.1617813	0.37648978	0.00017886	0.00250853
ENSBTAG000000006775	883.967644	0.97337639	0.30679863	0.00017873	0.00250853
ENSBTAG000000014505	874.405299	0.60983439	0.1751623	0.00017857	0.00250853
ENSBTAG000000005961	1535.75139	0.68800948	0.20146761	0.00017883	0.00250853
ENSBTAG0000000008338	5.97129485	2.57739129	0.87731782	0.00017958	0.00251612
ENSBTAG000000000671	32.104802	1.44216319	0.47274071	0.00018089	0.00253072
ENSBTAG000000019015	4249.14403	1.92454874	0.74719549	0.00018099	0.00253072
ENSBTAG000000011563	89.3763099	1.38722339	0.46750713	0.00018239	0.00254027
ENSBTAG0000000001008	1366.1346	1.15087472	0.36880443	0.00018216	0.00254027
ENSBTAG000000015154	4882.23585	0.88196954	0.26670606	0.00018226	0.00254027
ENSBTAG000000024950	42.7667962	1.60756397	0.54769805	0.00018333	0.00255074
ENSBTAG000000015615	96.8250509	1.2503883	0.42004299	0.00018537	0.0025766
ENSBTAG000000011204	197.100223	1.36281497	0.4679086	0.00018575	0.00257672
ENSBTAG0000000001601	12840.427	1.59376426	0.54486581	0.00018562	0.00257672
ENSBTAG0000000015969	1400.1559	1.17311603	0.37164182	0.00018611	0.00257916
ENSBTAG000000002555	57.6227933	1.81132442	0.65975663	0.00018894	0.00261158
ENSBTAG000000046014	78.8343014	1.41956485	0.46344054	0.00018901	0.00261158
ENSBTAG0000000005165	794.531909	0.83679199	0.25166498	0.00019031	0.00262704
ENSBTAG000000013755	33.8403105	1.38245403	0.45618415	0.00019304	0.00265224
ENSBTAG0000000001584	72.8049617	1.21520705	0.3917859	0.00019327	0.00265224
ENSBTAG0000000001047	160.766597	2.14918909	0.79508268	0.00019324	0.00265224
ENSBTAG000000001233	201.479275	1.28577972	0.41480814	0.0001929	0.00265224
ENSBTAG0000000018382	689.75583	0.70238254	0.20823188	0.00019292	0.00265224
ENSBTAG000000017354	58.1986569	1.66103159	0.60646159	0.00019397	0.00265925
ENSBTAG0000000011182	605.029903	1.63417883	0.56727724	0.00019439	0.0026624
ENSBTAG00000000012280	53.7103054	1.12248784	0.35414102	0.00019517	0.00266778

Over expressed genes					
Ensemble id	baseMean	log2FoldChange	lfcSE	pvalue	padj
ENSBTAG000000015908	921.151419	0.97803696	0.30264265	0.00019561	0.00266933
ENSBTAG000000003746	1880.52637	0.49947879	0.14141551	0.00019566	0.00266933
ENSBTAG000000018299	113.205892	0.80891213	0.24430412	0.00019707	0.00268598
ENSBTAG000000016208	177.822631	1.66231448	0.60057176	0.00019759	0.00268792
ENSBTAG000000001602	866.674754	1.27502929	0.41200147	0.00019777	0.00268792
ENSBTAG000000009841	1335.41484	0.98619652	0.30672256	0.00019779	0.00268792
ENSBTAG000000013843	253.39332	1.2200214	0.4061529	0.00019858	0.00269596
ENSBTAG000000012074	54.6396119	1.22688406	0.41473713	0.00019909	0.00270037
ENSBTAG000000046090	149.053221	2.0883985	0.7545702	0.00019991	0.0027089
ENSBTAG000000040128	7.87027108	2.14792844	0.78728136	0.00020046	0.00271372
ENSBTAG000000020433	304.231468	0.99229693	0.31741324	0.00020089	0.00271427
ENSBTAG000000012371	833.63771	1.02746154	0.32093172	0.00020083	0.00271427
ENSBTAG000000010882	29.1594112	1.6023444	0.53351414	0.00020278	0.00273597
ENSBTAG000000018073	5920.72264	1.53310646	0.52243462	0.00020289	0.00273597
ENSBTAG000000053696	42.6799025	1.73296703	0.58465275	0.00020391	0.00274442
ENSBTAG00000000781	73.2590339	1.04957155	0.34071971	0.00020376	0.00274442
ENSBTAG000000015276	50.1668329	1.05145209	0.3470469	0.00020473	0.00275282
ENSBTAG000000011981	59.0088821	1.20840986	0.4179457	0.00020523	0.00275698
ENSBTAG000000008340	92.538608	1.18286355	0.37845006	0.0002081	0.00276211
ENSBTAG000000014614	45.0001199	1.78802925	0.62936928	0.00020616	0.00276297
ENSBTAG000000020589	73.4464086	1.57591728	0.52630454	0.00020627	0.00276297
ENSBTAG000000011761	22.3619172	1.24345605	0.42658379	0.00020655	0.00276343
ENSBTAG000000007578	316.159312	1.18193612	0.39679931	0.00020761	0.00277289
ENSBTAG000000001792	11.2252541	1.38422335	0.97279204	0.00020851	0.00278087
ENSBTAG000000019155	181.13261	0.65506823	0.19377544	0.0002086	0.00278087
ENSBTAG000000002996	44.0863198	3.86636376	1.41285851	0.00020956	0.00279107
ENSBTAG000000012073	19.488701	1.66043594	0.57284983	0.00021184	0.00281336
ENSBTAG000000007732	11.8305363	1.95113836	0.73359826	0.00021225	0.0028134
ENSBTAG000000008300	78.4905431	1.35423561	0.49269065	0.00021387	0.00283222
ENSBTAG000000021829	174.681441	0.95248099	0.31046315	0.00021413	0.00283297
ENSBTAG000000020312	465.635338	0.7046402	0.20863579	0.00021509	0.00284302
ENSBTAG000000021523	1591.3651	1.10725572	0.35785958	0.00021652	0.00285918
ENSBTAG000000051542	19.5649922	1.59327578	0.56334641	0.0002182	0.0028736
ENSBTAG000000011100	1968.17335	1.02872669	0.33924542	0.00021822	0.0028736
ENSBTAG000000007662	4820.7027	0.84198345	0.26123922	0.00021899	0.00288102
ENSBTAG000000003289	35.276372	1.73335408	0.59372415	0.00022199	0.00291222
ENSBTAG000000002362	38.6996744	1.76746005	0.65238511	0.00022199	0.00291222
ENSBTAG000000037537	68.4820525	2.29817741	0.81428772	0.00022227	0.00291845
ENSBTAG000000002172	2051.68953	1.260774	0.41255607	0.00022288	0.00291845
ENSBTAG000000008330	955.543213	1.25983428	0.41399449	0.00022442	0.00293589
ENSBTAG000000011820	134.562762	1.55812712	0.55870698	0.00022472	0.00293705
ENSBTAG000000009354	387.41799	1.66416566	0.34051974	0.00022513	0.00293976
ENSBTAG000000001774	50.3366289	1.17689381	0.39783159	0.00022568	0.0029414
ENSBTAG000000021820	1727.27625	0.85652429	0.26297709	0.00022711	0.00295734
ENSBTAG000000004856	615.328689	0.76113337	0.23150849	0.00022743	0.00295867
ENSBTAG000000011483	194.099795	1.30570694	0.42985453	0.00022847	0.00296948
ENSBTAG0000000017086	17.4379759	1.67607773	0.59406289	0.00023275	0.00301664
ENSBTAG000000002705	25.664245	1.50480377	0.51281787	0.00023461	0.00303237
ENSBTAG000000003001	570.992063	0.86418212	0.26626828	0.00023486	0.00303276
ENSBTAG000000005504	77.9097977	2.2497919	0.79572197	0.00023528	0.00303351
ENSBTAG000000014884	651.051623	0.85352063	0.26354238	0.00023598	0.00303351
ENSBTAG000000018366	734.542633	0.6293525	0.18620162	0.000236	0.00303351
ENSBTAG000000003341	511.670038	1.15413334	0.38498624	0.00023793	0.00305554
ENSBTAG000000048087	3.212951	3.87539779	1.64640509	0.00023955	0.00307375
ENSBTAG000000024470	120.430167	1.54069128	0.54926132	0.00024071	0.0030856
ENSBTAG000000013793	48.5581358	1.1766128	0.40390639	0.00024159	0.00309118
ENSBTAG000000004499	417.264354	0.93970741	0.29585393	0.00024495	0.00312852
ENSBTAG000000003758	6597.68297	1.00771541	0.35505897	0.00024539	0.00313125
ENSBTAG000000015248	144.142476	1.12727081	0.33518893	0.00024634	0.00313775
ENSBTAG000000039347	77.1885644	1.25676118	0.45203462	0.00024898	0.00316847
ENSBTAG000000008717	379.806816	1.20246621	0.40335161	0.00024929	0.00316947
ENSBTAG000000015081	355.678078	0.50878112	0.14720237	0.00024958	0.00317027
ENSBTAG000000047914	11.3007888	3.25162552	1.32860675	0.00025006	0.00317353
ENSBTAG000000052972	6.33069603	2.09820413	0.73592375	0.00025047	0.00317574
ENSBTAG000000013044	69.1574784	1.17560309	0.39577047	0.00025087	0.00317574
ENSBTAG000000000957	689.970193	0.60539366	0.17927775	0.00025091	0.00317574
ENSBTAG000000004329	133.411312	1.10512436	0.356738	0.0002513	0.00317779
ENSBTAG000000018334	145.664691	0.68516777	0.20931482	0.00025225	0.0031869
ENSBTAG000000043949	33.8033557	1.25118471	0.43510648	0.00025475	0.00321154
ENSBTAG000000000377	183.930237	3.85270517	1.54079456	0.00025472	0.00321154
ENSBTAG000000000842	91.6759074	0.90608444	0.28293745	0.00025565	0.00321533
ENSBTAG000000014553	994.281645	0.4969313	0.14415736	0.00025559	0.00321533
ENSBTAG000000001390	166.863697	0.72257062	0.21964707	0.00025603	0.00321726
ENSBTAG000000010971	505.746583	1.11266401	0.36978634	0.00025723	0.00322659
ENSBTAG000000027074	8.35874624	1.87148221	0.69855882	0.00025806	0.00322812
ENSBTAG000000019342	46.4053297	1.10189029	0.37209979	0.00025763	0.00322812
ENSBTAG0000000044078	191.329335	1.8448939	0.66582608	0.00025828	0.00322812
ENSBTAG000000023666	13.6411796	2.16053064	0.77546815	0.00025907	0.00323512
ENSBTAG000000007719	167.280377	0.90770791	0.29329179	0.00025989	0.00324249
ENSBTAG000000013922	46.1109415	1.35419882	0.45212567	0.00026199	0.00325783
ENSBTAG000000046699	350.192768	1.36331477	0.48544334	0.00026205	0.00325783
ENSBTAG000000014609	655.282453	0.66599073	0.19791324	0.00026205	0.00325783
ENSBTAG000000008269	266.059835	1.27092326	0.43047314	0.00026246	0.00326003
ENSBTAG000000015104	1259.33265	0.80279114	0.2473969	0.00026377	0.0032734
ENSBTAG000000008124	251.686158	1.61318159	0.58216321	0.00026448	0.00327927
ENSBTAG000000012564	933.096024	0.51811196	0.15017766	0.00026544	0.00328828
ENSBTAG000000015254	261.350278	0.62851117	0.18811585	0.00026596	0.00329181
ENSBTAG000000048122	4262.76283	1.09698137	0.3761002	0.00026691	0.00330071
ENSBTAG000000005090	337.806663	1.24651516	0.41519479	0.00026783	0.00330625
ENSBTAG000000020755	99.0059106	1.87865284	0.71169974	0.00026887	0.003314
ENSBTAG000000019707	38.2818019	1.86936274	0.77054664	0.000269	0.00331484
ENSBTAG000000018046	321.657517	1.01413825	0.32636625	0.00027066	0.00332945
ENSBTAG000000010273	122.118259	2.86334408	1.07699143	0.00027098	0.00333038
ENSBTAG0000000034985	26.1630921	1.89797386	0.75587674	0.0002716	0.00333208
ENSBTAG000000018186	1097.74139	1.5905457	0.57322546	0.00027144	0.00333208

Over expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000027446	1187.56514	1.20422014	0.40681604	0.00027313	0.00334511
ENSBTAG000000008699	453.279485	0.96251117	0.30640921	0.00027462	0.00336038
ENSBTAG000000007988	566.208113	0.96618331	0.3080859	0.00027556	0.00336899
ENSBTAG000000007962	64.3707378	2.45611804	0.95848889	0.00027588	0.00336999
ENSBTAG000000039784	588.325479	1.06076461	0.35923479	0.00027742	0.00338587
ENSBTAG000000004263	81.2520829	1.40623808	0.4787661	0.00027773	0.00338663
ENSBTAG000000014376	1590.78544	0.72577842	0.22174409	0.00027834	0.00339117
ENSBTAG000000007077	391.93614	0.74014859	0.23104227	0.00027915	0.00339807
ENSBTAG000000018975	337.448966	1.18958541	0.42450433	0.00028046	0.00341099
ENSBTAG000000003184	46.4563956	1.60082163	0.58731232	0.00028234	0.00342621
ENSBTAG000000015007	535.684513	0.80913931	0.25674233	0.00028244	0.00342621
ENSBTAG000000021499	16986.3894	1.07504843	0.36798696	0.00028419	0.00344152
ENSBTAG000000020848	401.004161	1.58378535	0.56318243	0.00028527	0.00345159
ENSBTAG000000021958	193.066948	1.54744106	0.54091189	0.00028597	0.00345247
ENSBTAG000000016618	210.412389	0.57684425	0.17235128	0.00028608	0.00345247
ENSBTAG000000048782	28601.4105	0.62032691	0.1868072	0.00028599	0.00345247
ENSBTAG000000006222	218.43182	1.20513536	0.40209991	0.00028695	0.00345994
ENSBTAG000000015710	2156.33399	1.23892431	0.43637997	0.00028913	0.00348319
ENSBTAG0000000053561	5.91501466	2.69125677	1.00793014	0.00029156	0.00349958
ENSBTAG000000011224	433.65712	1.19805929	0.40376616	0.00029195	0.00349958
ENSBTAG000000006453	451.064093	1.19952757	0.41546215	0.00029199	0.00349958
ENSBTAG000000022799	1807.83483	0.56872453	0.16901722	0.00029199	0.00349958
ENSBTAG000000004037	4583.83163	1.74272741	0.43228487	0.00029365	0.00351651
ENSBTAG000000001112	63.1989684	1.4833075	0.53729912	0.0002977	0.00355892
ENSBTAG000000009886	44.7904027	1.25517699	0.43524339	0.00029902	0.0035717
ENSBTAG000000021961	17.6008495	1.71987599	0.68542387	0.00030185	0.00359632
ENSBTAG000000031453	6.68397704	2.49265494	0.90447042	0.00030294	0.00360622
ENSBTAG000000015743	60.5461629	1.22238904	0.41109339	0.00030321	0.00360632
ENSBTAG000000012349	71.813188	1.20746349	0.42693888	0.00030447	0.0036161
ENSBTAG000000002972	2152.74648	1.70080948	0.32716148	0.00030455	0.0036161
ENSBTAG000000005078	23.7601764	1.92632441	0.74533312	0.0003053	0.00362203
ENSBTAG000000001913	139.821121	1.69560471	0.62277494	0.00030984	0.00366961
ENSBTAG000000020070	88.3357741	1.1245653	0.38755594	0.00031136	0.00368456
ENSBTAG000000008951	1682.19134	0.23673269	0.54083708	0.00031232	0.00368961
ENSBTAG000000010949	19.0981178	3.26849061	1.20423984	0.00031294	0.00369072
ENSBTAG000000009214	309.261192	2.04720995	0.77460335	0.00031409	0.00370121
ENSBTAG000000005181	4.55792531	2.72110579	0.97304195	0.00031577	0.0037178
ENSBTAG000000015972	211.71335	0.61267121	0.1840665	0.00031732	0.00373294
ENSBTAG000000002176	126.607902	1.05101482	0.6333299	0.00031838	0.00373917
ENSBTAG000000013699	194.224748	1.03531194	0.34378848	0.00031927	0.00374015
ENSBTAG000000026114	274.172416	0.93517816	0.30816642	0.000319	0.00374015
ENSBTAG000000010935	485.707574	0.73891165	0.23647738	0.0003188	0.00374015
ENSBTAG000000004852	61.9261144	0.71068629	0.23799635	0.00032236	0.00377015
ENSBTAG000000017840	226.392837	1.51611603	0.5341402	0.0003227	0.00377097
ENSBTAG000000001626	853.201985	0.80780347	0.25521293	0.0003232	0.00377359
ENSBTAG000000012330	37853.2289	0.69768501	0.21666378	0.00032524	0.00379428
ENSBTAG0000000004059	527.519601	1.19769583	0.40406137	0.00032578	0.00379736
ENSBTAG000000017244	533.907981	0.52174716	0.15435414	0.00032881	0.00382639
ENSBTAG000000001607	253.738584	0.83364759	0.26444552	0.00032909	0.00382641
ENSBTAG000000019870	7.19146816	2.72998051	1.22541344	0.00033061	0.00383478
ENSBTAG000000016519	383.855908	0.87267638	0.28621781	0.00033063	0.00383478
ENSBTAG0000000050859	915.788982	0.64054942	0.19437228	0.00033022	0.00383478
ENSBTAG000000014396	1097.93369	1.02685679	0.34192606	0.00033128	0.0038392
ENSBTAG000000019866	324.386541	1.18249776	0.41543111	0.00033254	0.00384975
ENSBTAG000000018731	16.8680698	1.43104456	0.5138911	0.00033566	0.00387073
ENSBTAG000000016139	335.810683	1.59257466	0.59256357	0.00033646	0.00387671
ENSBTAG0000000034519	198.935631	0.93631221	0.30359242	0.00033688	0.00387838
ENSBTAG000000003997	349.819277	0.85700279	0.27387163	0.00034001	0.00391119
ENSBTAG0000000030333	1.93399597	2.4978055	0.93298736	0.00034278	0.00393987
ENSBTAG000000010959	7.97937898	2.77032755	0.96554492	0.00034348	0.00394465
ENSBTAG000000019517	576.006127	2.36073456	0.91154051	0.00034416	0.00394919
ENSBTAG0000000007470	23.383682	1.61067198	0.60858229	0.00034562	0.00395631
ENSBTAG0000000006096	1171.2234	1.03459869	0.34742086	0.00034627	0.0039572
ENSBTAG0000000005430	22.6569377	1.5859161	0.60311291	0.00034791	0.00397077
ENSBTAG0000000034609	942.757332	1.07765436	0.37924983	0.00034802	0.00397077
ENSBTAG000000015716	143.245291	0.91318515	0.30110074	0.00034956	0.00398505
ENSBTAG0000000001126	795.264249	0.77283899	0.24453943	0.00035081	0.00399613
ENSBTAG000000021164	212.025661	0.70540009	0.21853354	0.00035201	0.00399996
ENSBTAG000000015582	428.708963	1.38782076	0.48431261	0.00035171	0.00399996
ENSBTAG000000012117	1331.10245	1.08310646	0.36832777	0.00035671	0.00403383
ENSBTAG000000019844	66.1996519	1.40066136	0.4885507	0.00035733	0.00403753
ENSBTAG0000000031777	95.891761	1.17976861	0.41884757	0.00035926	0.00405282
ENSBTAG0000000008401	1003.3673	1.20032332	0.4120792	0.00035918	0.00405282
ENSBTAG000000014861	32.8627965	1.14089697	0.39988178	0.00036016	0.00405967
ENSBTAG0000000118391	409.451819	0.58367699	0.17640947	0.00036068	0.00406161
ENSBTAG0000000060606	1940.10995	1.17811663	0.40271745	0.00036091	0.00406161
ENSBTAG000000013510	126.936878	1.82879737	0.25960126	0.00036239	0.00407167
ENSBTAG000000018367	738.414332	1.20639652	0.4253581	0.00036636	0.00411301
ENSBTAG0000000014432	117.102794	1.12025218	0.3929962	0.00036751	0.00412269
ENSBTAG000000003504	154.070287	0.88809504	0.28899016	0.00036889	0.00413259
ENSBTAG000000019150	229.86499	0.69558685	0.22154023	0.00036962	0.00413677
ENSBTAG0000000052514	112.450677	1.92411552	0.7265224	0.0003709	0.00414743
ENSBTAG000000034113	203.444867	0.88945446	0.29474223	0.00037676	0.00420465
ENSBTAG0000000053050	127.10702	1.22782854	0.42574604	0.00037692	0.00420465
ENSBTAG000000001585	2627.24892	0.96147172	0.31661563	0.00037776	0.00420886
ENSBTAG0000000007485	21.0901984	1.06465508	0.58602127	0.00038309	0.00426333
ENSBTAG0000000050078	23.4957313	1.45276906	0.51212463	0.0003847	0.00426405
ENSBTAG0000000044106	148.561178	0.90660517	0.29586567	0.0003849	0.00426405
ENSBTAG0000000010303	310.462987	2.3516516	1.36901292	0.00038449	0.00426405
ENSBTAG000000016908	390.857429	1.24422763	0.45244427	0.00038499	0.00426405
ENSBTAG000000010336	4102.94505	1.18923536	0.4105237	0.00038462	0.00426405
ENSBTAG000000014127	71.806647	1.93240359	0.89230085	0.00039141	0.00432835
ENSBTAG000000018517	308.246483	1.92694652	0.80409999	0.00039241	0.004336
ENSBTAG0000000001068	197.513172	1.00175179	0.34572053	0.00039303	0.00433941
ENSBTAG0000000244992	72.2700873	0.8368603	0.27413147	0.00039697	0.00437944

Over expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000015994	13.4086835	2.51434037	0.95973607	0.00040154	0.00442169
ENSBTAG000000013641	138.060127	1.08608971	0.38299488	0.0004014	0.00442169
ENSBTAG000000012787	387.356015	0.65080809	0.20262244	0.00040174	0.00442169
ENSBTAG000000006134	613.066499	0.92362189	0.30410615	0.00040847	0.00448865
ENSBTAG000000055302	127.949652	1.46013838	0.61723899	0.00041123	0.00451191
ENSBTAG000000018785	4862.80065	1.53418704	0.58155981	0.00041199	0.00451668
ENSBTAG000000007118	165.795936	0.92775673	0.30929942	0.00041287	0.00452282
ENSBTAG000000003749	14.6296855	1.77075658	0.67958918	0.00041487	0.00454123
ENSBTAG000000010242	4309.78484	0.76385541	0.2472402	0.00041856	0.00457803
ENSBTAG000000031069	56.828329	1.3622062	0.49992136	0.00042203	0.00460164
ENSBTAG000000045748	2729.5839	0.71209679	0.22502504	0.00042266	0.00460492
ENSBTAG000000008092	247.528811	1.03021319	0.35385647	0.00042427	0.00461879
ENSBTAG000000011982	87.6870621	1.02194809	0.34762487	0.00042704	0.00464535
ENSBTAG000000020272	132.204119	0.56542248	0.17341172	0.00042764	0.00464835
ENSBTAG000000033137	3.15034601	3.36641109	1.41995573	0.00042881	0.00465376
ENSBTAG000000015844	6.97488297	3.28133405	1.68551125	0.00042863	0.00465376
ENSBTAG000000018431	19.6107919	0.59958081	0.53038875	0.00042914	0.00465376
ENSBTAG000000015939	38.7446924	1.26182374	0.48995934	0.00043105	0.0046709
ENSBTAG000000005988	109.136943	1.50568762	0.56265129	0.00043685	0.00470583
ENSBTAG000000000225	250.603584	0.58430392	0.17907238	0.00043563	0.00470583
ENSBTAG000000019315	273.414537	1.24809657	0.47616126	0.00043579	0.00470583
ENSBTAG000000031981	263.898	0.92777473	0.19461072	0.00043592	0.00470583
ENSBTAG000000001824	462.569173	1.15651219	0.42245432	0.00043633	0.00470583
ENSBTAG000000010659	859.556009	0.70905646	0.22504169	0.00043696	0.00470583
ENSBTAG000000016105	1132.16217	0.43853094	0.13044037	0.00043598	0.00470583
ENSBTAG000000004189	1596.51933	0.69160045	0.21837702	0.00043556	0.00470583
ENSBTAG000000016920	87.9260561	1.35454447	0.50447796	0.00044268	0.00476369
ENSBTAG000000007994	8.06727053	2.13772924	0.80355154	0.00044375	0.00477163
ENSBTAG0000000048057	372.268774	0.53631884	0.16362627	0.00044627	0.0047913
ENSBTAG000000016061	139.034377	1.57869457	0.5878466	0.00044909	0.00481787
ENSBTAG000000015767	4618.57258	0.88297722	0.29107309	0.00044971	0.00482087
ENSBTAG000000008411	1560.55685	0.92850594	0.31159485	0.00045026	0.0048231
ENSBTAG000000018019	210.109036	1.28496292	0.50512016	0.00045093	0.0048266
ENSBTAG0000000049220	24.6957696	1.38366607	0.50503737	0.00045171	0.00482874
ENSBTAG000000013343	4658.59969	0.91228228	0.31103365	0.00045182	0.00482874
ENSBTAG000000001805	153.752429	0.77730547	0.25511996	0.00045309	0.00483856
ENSBTAG000000018285	435.505083	0.59958076	0.18773534	0.00045535	0.00485661
ENSBTAG000000009019	21.8055463	1.72074068	0.65413445	0.00045662	0.0048612
ENSBTAG000000003176	105.912944	1.38767058	0.54710241	0.00045689	0.0048612
ENSBTAG000000037778	243.550316	2.4963185	1.58585941	0.00045694	0.0048612
ENSBTAG000000016093	1154.03439	0.92121711	0.30717849	0.00045833	0.00487231
ENSBTAG000000005978	1826.14426	0.77212136	0.2510224	0.00045973	0.00488231
ENSBTAG000000047175	22.1979698	1.71536604	0.67998466	0.0004607	0.00489006
ENSBTAG000000003128	48.0208083	1.49998164	0.54778569	0.00046193	0.00489195
ENSBTAG000000012047	504.848523	1.14973566	0.40383952	0.00046163	0.00489195
ENSBTAG000000050334	678.449539	1.45395127	0.5912638	0.00046124	0.00489195
ENSBTAG000000054259	302.498168	1.30059181	0.46524048	0.00046954	0.00496508
ENSBTAG000000022004	779.110886	1.09512989	0.39910679	0.00047002	0.00496643
ENSBTAG000000026993	1228.12599	0.6563358	0.20800383	0.00047445	0.00500939
ENSBTAG000000019368	8.78879702	1.74649456	0.67819716	0.00047484	0.0050098
ENSBTAG000000006528	30.6881096	1.52354651	0.57292469	0.00047536	0.0050115
ENSBTAG000000012671	2232.48425	0.90182885	0.30166334	0.00048122	0.00506188
ENSBTAG000000020334	40.2025888	1.16494237	0.41558504	0.00048275	0.00507037
ENSBTAG000000013301	80.6213944	0.76287017	0.2545422	0.00048375	0.00507698
ENSBTAG000000012944	15.0330679	1.4466583	0.51591407	0.00048484	0.00508469
ENSBTAG000000005193	62.6796369	1.34103352	0.51614336	0.00049133	0.00513733
ENSBTAG000000031707	49.7878525	1.27801567	0.49892349	0.00049296	0.00514286
ENSBTAG000000003300	111.553881	0.97614287	0.34222303	0.00049243	0.00514286
ENSBTAG000000016024	3453.58845	0.88128505	0.29408514	0.00049292	0.00514286
ENSBTAG000000054765	23.7437733	2.54907991	1.05868686	0.00049351	0.00514403
ENSBTAG000000026779	18173.0047	1.12895557	0.422043	0.00049626	0.00516188
ENSBTAG000000009477	72.5426804	1.13480061	0.40011315	0.00049923	0.00518697
ENSBTAG000000001651	624.509225	0.65139911	0.20560322	0.00050432	0.00522634
ENSBTAG000000015157	317.325005	1.28778017	0.49041697	0.00050518	0.00523144
ENSBTAG000000030521	287.191192	0.89557835	0.30581429	0.00050607	0.00523482
ENSBTAG000000021091	528.324693	1.02404523	0.3487038	0.00050626	0.00523482
ENSBTAG000000021596	141.032013	1.04061317	0.56106831	0.00050865	0.00525565
ENSBTAG000000013525	1692.62705	1.57166746	0.62884326	0.00051004	0.00526615
ENSBTAG000000009493	791.101967	0.9766093	0.34120943	0.00051214	0.00528391
ENSBTAG000000054404	75.2041227	1.02439525	0.35227797	0.00051279	0.00528675
ENSBTAG000000011322	731.315488	0.67278058	0.21455076	0.00052272	0.00537336
ENSBTAG000000000807	293.477116	1.40813473	0.5281618	0.00052312	0.00537348
ENSBTAG000000004954	97.4678002	1.23861744	0.45827828	0.00052369	0.00537539
ENSBTAG000000050156	12.5109905	1.63053349	0.63155778	0.00052615	0.0053927
ENSBTAG000000012608	4.55747979	2.65263561	1.24177243	0.00052684	0.00539589
ENSBTAG000000008483	65.6532518	1.14710706	0.42708437	0.00052945	0.00541868
ENSBTAG000000009470	230.588165	1.0701896	0.39175417	0.00053313	0.00544168
ENSBTAG000000013577	409.481716	0.8292006	0.28216733	0.00053321	0.00544168
ENSBTAG000000008755	1173.64436	0.32983869	0.09780137	0.00053392	0.00544168
ENSBTAG000000007537	315.946334	0.71826726	0.23226406	0.00053526	0.00546091
ENSBTAG000000010246	68.1642062	0.85831788	0.29866177	0.00053987	0.00548963
ENSBTAG000000010923	174.289593	0.86209329	0.29179384	0.00054011	0.00548963
ENSBTAG000000013074	601.104026	0.66042436	0.20952914	0.0005395	0.00548963
ENSBTAG000000008147	670.880875	1.30163879	0.47674919	0.0005403	0.00548963
ENSBTAG000000021286	197.792859	0.99657879	0.34632749	0.0005426	0.00550892
ENSBTAG000000033160	34.3061047	0.71930719	0.23731661	0.00054319	0.00551098
ENSBTAG000000015438	930.538208	0.80133793	0.27256871	0.00054838	0.00555962
ENSBTAG000000011095	34.5130468	1.70206899	0.64957107	0.0005496	0.00556761
ENSBTAG000000005892	1958.13537	1.08156465	0.3995302	0.00054997	0.00556761
ENSBTAG000000000081	269.398469	0.62468608	0.1985024	0.00055327	0.00558493
ENSBTAG000000010394	8.84017528	2.6416383	1.05110468	0.00055451	0.0055865
ENSBTAG000000030424	13.7475165	1.88593454	0.75296307	0.00055462	0.0055865
ENSBTAG000000031725	129.032352	0.78565889	0.26334678	0.00055555	0.00558885
ENSBTAG000000015776	864.012678	0.53334467	0.16524422	0.00055671	0.00559541
ENSBTAG000000014238	1555.28068	0.80159223	0.26523715	0.00055927	0.00561715

Over expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000021102	29.5398009	1.2888119	0.51176017	0.00056294	0.00564189
ENSBTAG000000014046	190.229203	1.72564452	0.69050213	0.00056232	0.00564189
ENSBTAG000000052465	15.9630874	2.86526071	1.09603903	0.00056412	0.00564259
ENSBTAG000000024803	531.084059	1.08389193	0.39295148	0.00056422	0.00564259
ENSBTAG000000019754	64.5925142	1.20874392	0.45618321	0.00056667	0.00565497
ENSBTAG000000020436	40.3197188	1.40248629	0.5966253	0.00056744	0.00565863
ENSBTAG000000018694	170.122067	1.15738589	0.45524071	0.0005707	0.0056871
ENSBTAG000000014119	40.2101704	1.33794891	0.53514435	0.00057376	0.00570953
ENSBTAG000000014567	37.0221581	1.64653562	0.64585732	0.00057522	0.00571592
ENSBTAG000000034349	85.075454	1.0792645	0.37976042	0.0005776	0.00573141
ENSBTAG000000015719	69.3015228	0.98275656	0.33900854	0.00057854	0.00573666
ENSBTAG000000012887	39.1086221	1.46442537	0.63680975	0.0005799	0.00574607
ENSBTAG000000015590	187.462666	0.84296741	0.2950273	0.00058927	0.00582785
ENSBTAG000000012433	152.25783	0.96103329	0.34744301	0.00059054	0.00583496
ENSBTAG000000050445	18.6888312	2.21502571	1.5813906	0.0005921	0.00583806
ENSBTAG000000053929	27.9589622	1.7741503	0.68860108	0.00059136	0.00583806
ENSBTAG000000024105	728.222708	0.85231272	0.30100167	0.00059177	0.00583806
ENSBTAG000000015381	215.668821	0.89876075	0.31384456	0.00059403	0.00585296
ENSBTAG000000002885	34.2995494	1.37715061	0.54784577	0.00059565	0.00586361
ENSBTAG00000001652	101.996608	1.20342988	0.44152342	0.00059594	0.00586361
ENSBTAG000000006614	305.708761	0.97426586	0.33832509	0.00059793	0.00587675
ENSBTAG000000012697	4763.88036	0.46712621	0.14372677	0.00059883	0.00587962
ENSBTAG000000005524	876.691019	0.69253045	0.22684011	0.00060451	0.00592295
ENSBTAG000000010057	57.8578431	1.72656503	0.67502786	0.00060868	0.00595578
ENSBTAG000000012419	549.906952	1.10763599	0.39630387	0.00060871	0.00595578
ENSBTAG000000006452	861.315243	1.11066279	0.41255877	0.00060914	

Over expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG00000002941	713.989044	1.1829391	0.44837768	0.00078333	0.00718663
ENSBTAG00000007489	557.692712	0.4646199	0.14738971	0.00078633	0.00718671
ENSBTAG00000010885	1003.09835	0.57074636	0.18484344	0.00078938	0.00720929
ENSBTAG00000011851	1046.32924	1.1104649	0.44009639	0.00078983	0.00720929
ENSBTAG00000014971	628.342114	0.48859015	0.15534331	0.00079289	0.00723252
ENSBTAG00000050726	73.4044119	1.33828636	0.56084475	0.00079709	0.00726575
ENSBTAG00000008059	13.3705125	3.40952454	1.74500351	0.00080426	0.00731242
ENSBTAG00000012090	195.701915	0.71097635	0.24315511	0.00080663	0.00732622
ENSBTAG00000037413	655.064548	0.89982344	0.31792903	0.00081118	0.00736099
ENSBTAG00000009786	35.0691395	1.09591855	0.40397173	0.00081217	0.00736522
ENSBTAG00000014020	12.5911955	1.70894991	0.79778882	0.00081405	0.00737775
ENSBTAG00000009459	14.2678736	1.22692955	0.45331561	0.00081545	0.00738546
ENSBTAG00000005477	22255.1497	0.60231264	0.19752349	0.00081638	0.00738905
ENSBTAG00000015267	309.289902	0.75067867	0.25928698	0.00082296	0.00742464
ENSBTAG00000052663	7.75606688	2.10425996	1.15216003	0.00082535	0.00744144
ENSBTAG00000017328	399.688566	1.90921933	1.19064415	0.00082775	0.00745824
ENSBTAG00000007689	45.9021201	0.83125502	0.30544222	0.00084003	0.00755292
ENSBTAG00000014820	578.783722	0.53618973	0.17444368	0.00084534	0.00760205
ENSBTAG00000052721	20.1327473	2.39966506	1.10216202	0.00084778	0.00761913
ENSBTAG00000052789	14.1117457	1.36720518	0.53646404	0.00084935	0.00762834
ENSBTAG00000019470	588.406396	1.13828002	0.4289464	0.00085202	0.00764747
ENSBTAG00000012908	277.42278	0.72511012	0.27116699	0.00085408	0.007661
ENSBTAG00000017373	428.873911	0.75643929	0.25993792	0.0008571	0.00768322
ENSBTAG00000004392	999.106622	0.79145824	0.27925377	0.00085953	0.00770007
ENSBTAG00000048852	8.85786177	1.71910156	0.75628409	0.00086662	0.00775002
ENSBTAG00000003851	3535.10063	1.07256786	0.39972211	0.00086767	0.00775002
ENSBTAG000000013401	95.173846	1.26115733	0.49531171	0.00086806	0.0077566
ENSBTAG00000011287	163.858727	0.48406954	0.15525046	0.00087067	0.00777503
ENSBTAG00000006566	17.3205485	2.4093474	0.98726539	0.00087355	0.00786926
ENSBTAG00000017266	250.2194	1.14533	0.46863129	0.00088377	0.00787687
ENSBTAG00000049333	366.618756	1.09684405	0.45409516	0.00088675	0.00789063
ENSBTAG00000015010	412.92257	0.9454431	0.34176432	0.000887	0.00789063
ENSBTAG00000004099	9.31026731	1.73645647	0.76817788	0.00089176	0.00790787
ENSBTAG000000019354	14.2227303	1.415804	0.56432811	0.00089175	0.00790787
ENSBTAG00000009336	77.3989614	0.99535657	0.36643579	0.00088992	0.00790787
ENSBTAG00000004901	223.252456	0.60034117	0.20313544	0.00089128	0.00790787
ENSBTAG00000013414	217.772367	1.31329625	0.54197082	0.00089335	0.00791698
ENSBTAG00000012397	201.363363	1.38849538	0.56343094	0.00089996	0.00796862
ENSBTAG00000018852	692.058693	0.5106101	0.16473034	0.00090123	0.00797171
ENSBTAG00000004997	104.942565	1.06432558	0.39688253	0.00090906	0.00803589
ENSBTAG00000003581	29.664521	0.84844369	0.3057919	0.00091107	0.00804526
ENSBTAG00000002690	174.599507	0.62455177	0.21091737	0.00091317	0.0080535
ENSBTAG00000011225	399.795806	0.61478365	0.20655602	0.00091335	0.0080535
ENSBTAG00000026851	33.3951657	1.01489312	0.38966737	0.00091904	0.00809346
ENSBTAG00000009256	1060.32599	0.87477503	0.32643068	0.00092066	0.00809666
ENSBTAG00000022007	2086.4653	0.71255105	0.24899061	0.00092214	0.00809666
ENSBTAG00000018522	5336.51829	0.69312904	0.23512986	0.00092093	0.00809666
ENSBTAG00000009366	218.349431	0.59809792	0.19919167	0.00092326	0.00811024
ENSBTAG00000030591	170.729362	0.65289352	0.22118127	0.00092658	0.0081192
ENSBTAG00000016873	650.13651	0.51984693	0.16802409	0.00092881	0.00815239
ENSBTAG00000012804	940.069246	0.61356811	0.20491496	0.00093402	0.00817914
ENSBTAG00000032183	88.2748979	1.28928281	0.55528103	0.00093645	0.00819525
ENSBTAG00000003510	2.88354404	3.44031951	1.62452933	0.00094047	0.00820993
ENSBTAG00000012961	690.391235	1.20916232	0.47420628	0.0009404	0.00820993
ENSBTAG00000049010	77.3051161	1.16919441	0.46525734	0.00094111	0.00821037
ENSBTAG00000016874	645.292435	0.79053716	0.27636475	0.00094421	0.00822721
ENSBTAG00000011518	13.4823891	1.45570887	0.60821411	0.00094513	0.00823008
ENSBTAG00000023947	28.6370091	1.61909029	0.68278021	0.00095928	0.00832673
ENSBTAG00000008291	61.4366583	1.32482006	0.5452113	0.00095979	0.00832673
ENSBTAG00000047998	19.9623671	1.34877435	0.60994693	0.00096644	0.00836944
ENSBTAG00000016959	88.4172114	1.27527659	0.50814119	0.00096651	0.00836944
ENSBTAG00000007725	3437.81539	0.50691823	0.1644578	0.00096831	0.0083799
ENSBTAG00000016595	1099.11468	1.01949815	0.38315356	0.00097349	0.00841428
ENSBTAG00000054978	46.2231484	1.79084971	0.78680573	0.00098191	0.00847657
ENSBTAG00000007369	256.418051	0.98886028	0.36693559	0.00098683	0.00850858
ENSBTAG00000014441	354.038613	1.08876204	0.42774993	0.00099405	0.00856556
ENSBTAG00000009421	54.859689	1.24507668	0.52792156	0.0009989	0.00861062
ENSBTAG00000008248	8.91712593	1.63906594	0.73812149	0.00100204	0.00862381
ENSBTAG00000004802	60.8537877	1.09957451	0.45086283	0.00100608	0.00863209
ENSBTAG00000003152	92.9524738	1.72047233	0.74489328	0.00100607	0.00863209
ENSBTAG00000020535	539.612424	0.76748378	0.26991019	0.00100466	0.00863209
ENSBTAG00000050242	44.5196364	0.81102435	0.29061865	0.00100696	0.00863372
ENSBTAG00000021326	14.3790763	0.27621528	0.57344325	0.00101158	0.00864764
ENSBTAG00000003069	44.8925022	1.19342168	0.50709115	0.00101094	0.00864764
ENSBTAG00000011543	79.9685416	1.10666794	0.43734888	0.00101052	0.00864764
ENSBTAG00000004259	221.534031	0.75820337	0.26934576	0.00101116	0.00864764
ENSBTAG00000017090	187.703926	0.62860387	0.21149234	0.00101433	0.00866574
ENSBTAG00000013112	695.08999	0.77972557	0.27682441	0.00101076	0.00868835
ENSBTAG00000002411	152.013135	1.084086	0.43772886	0.00102291	0.00872307
ENSBTAG00000002768	166.395284	0.76839386	0.27589004	0.00102248	0.00872307
ENSBTAG00000000277	139.98163	2.111262	1.38336878	0.00102539	0.0087389
ENSBTAG00000001057	484.363179	0.75229033	0.26745379	0.00102847	0.00875978
ENSBTAG00000034885	83.8498829	1.29598375	0.59195293	0.00103281	0.00878612
ENSBTAG00000015802	36.322751	1.10797641	0.44519342	0.00103928	0.00883576
ENSBTAG000000021480	21.5885875	1.83527504	0.88729985	0.0010425	0.00885774
ENSBTAG00000019256	112.662071	0.71291341	0.24852706	0.00104572	0.00887972
ENSBTAG00000006200	162.061895	0.879333	0.32109441	0.0010467	0.00888272
ENSBTAG00000006291	793.6718	0.55340906	0.18513325	0.00104799	0.00888823
ENSBTAG00000006999	237.227033	0.4316082	0.79121709	0.00105215	0.00891812
ENSBTAG00000020773	760.627466	1.29106245	0.54861727	0.00105649	0.00893871
ENSBTAG0000001056	66589.3172	0.56358934	0.18770855	0.00105843	0.00894972
ENSBTAG00000032068	11.6409097	2.00408131	0.86210625	0.00106204	0.00895516
ENSBTAG00000016481	432.629556	0.62591927	0.21407711	0.00106035	0.00895516
ENSBTAG000000021212	2892.28564	0.43126935	0.14001636	0.00106509	0.00898976
ENSBTAG00000018036	1698.07263	0.60890024	0.20493272	0.00106719	0.00900205

Over expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG00000002404	319.600767	0.40154077	0.12809622	0.00106828	0.00900582
ENSBTAG00000000848	32.4903316	1.46491739	0.63412185	0.00107017	0.00901629
ENSBTAG00000013670	303.21351	1.03512989	0.42287059	0.00107201	0.00902639
ENSBTAG00000032899	23.4692347	1.2597656	0.51323706	0.0010751	0.009047
ENSBTAG00000013524	1574.24463	0.58929165	0.19798309	0.00107693	0.00905693
ENSBTAG00000009668	342.639849	1.11532301	0.43367102	0.00108389	0.00909502
ENSBTAG00000008122	550.286888	0.92498703	0.34183183	0.00108426	0.00909502
ENSBTAG00000017118	188.970129	0.89099057	0.32622924	0.00108689	0.0091079
ENSBTAG00000010046	49.3818822	0.85157235	0.3175788	0.00109086	0.00912482
ENSBTAG00000021144	2472.59363	0.89829801	0.33000353	0.00109041	0.00912482
ENSBTAG00000006904	11.878811	2.19304992	1.09894442	0.00109296	0.0091369
ENSBTAG00000006073	21.2006903	1.164491	0.47120029	0.00109576	0.00915484
ENSBTAG00000007129	13.4551413	1.49920535	0.63717039	0.00109703	0.00915956
ENSBTAG00000002835	6.71588569	2.677449	1.24337938	0.00110187	0.00917997
ENSBTAG00000013159	425.722366	0.71803363	0.25393517	0.00110446	0.00917997
ENSBTAG00000001060	1662.29593	1.21187045	0.55373349	0.00110204	0.00917997
ENSBTAG00000010838	31.326805	1.08577354	0.43855753	0.00110283	0.00918107
ENSBTAG00000018691	48.4646892	1.23736374	0.53559347	0.00110384	0.00918232
ENSBTAG00000031020	375.781725	1.1247573	0.43470004	0.00110494	0.00918232
ENSBTAG00000010591	73.7621854	1.27414103	0.57819982	0.00110625	0.00918774
ENSBTAG00000006111	135.281318	0.48794974	0.16032964	0.00111588	0.00926223
ENSBTAG00000001325	15.4874378	1.55574377	0.69902323	0.00111659	0.00926263
ENSBTAG00000020090	62.7037169	0.62258083	0.2131737	0.00112431	0.0093156
ENSBTAG00000017542	319.101245	1.10241954	0.43072761	0.00112554	0.00932029
ENSBTAG00000031544	273.871336	0.56646693	0.18979883	0.00113318	0.00936694
ENSBTAG00000050822	8.19083218	2.10981061	1.01464118	0.00113585	0.00938347
ENSBTAG00000047302	9.03343824	1.82251855	0.86746449	0.00113828	0.009398
ENSBTAG00000004557	50.3298565	1.28541451	0.51703506	0.00113968	0.00940405
ENSBTAG00000005186	60.1004596	1.0104096	0.38632058	0.00114109	0.00940461
ENSBTAG00000013452	47.1774096	0.99248112	0.3893895	0.00114629	0.0094308
ENSBTAG00000015405	9.06889514	1.42070856	0.65063945	0.0011522	0.00945829
ENSBTAG00000020252	222.941578	0.67090688	0.23466097	0.00115235	0.00945829
ENSBTAG00000016290	261.4087	0.61031883	0.20984632	0.00116099	0.00945959
ENSBTAG00000007890	35.9290469	1.62651954	0.76436501	0.00116972	0.00955621
ENSBTAG00000012417	476.681636	0.63818634	0.1920707	0.0011712	0.00956272
ENSBTAG00000012103	364.714061	0.66069565	0.2297578	0.0011746	0.00958494
ENSBTAG000000004705	15.9236283	1.44171969	0.64764754	0.0011792	0.00961689
ENSBTAG00000030836	175.852981	1.10119014	0.45095138	0.00118249	0.00963245
ENSBTAG000000051082	54.9919834	1.13519269	0.50218868	0.00118494	0.0096468
ENSBTAG000000007181	47.1759871	0.97788233	0.37574021	0.00118718	0.00965946
ENSBTAG000000051755	913.062163	0.85547619	0.31348383	0.00119025	0.00967877
ENSBTAG00000019036	6.50830115	2.29135701	1.06020056	0.00119255	0.00969192
ENSBTAG00000001117	22.6888365	1.46466202	0.62060345	0.00119694	0.00971068
ENSBTAG00000018254	140.61626	0.57567508	0.19752547	0.00120234	0.00974884
ENSBTAG000000055058	30.2693012	1.19756262	0.4737277	0.00120363	0.00975366
ENSBTAG00000000256	52.7775128	1.06041973	0.43228674	0.00120626	0.00976929
ENSBTAG00000012700	1253.97878	0.97168604	0.38187283	0.00121139	0.00979952
ENSBTAG00000020355	333.528289	1.07394559	0.4476631	0.0012152	0.00981845
ENSBTAG000000046406	1286.97974	1.23466111	0.51703015	0.00121583	0.00981845
ENSBTAG000000007430	1437.15905	0.58095058	0.19689283	0.00122604	0.00988381
ENSBTAG00000011196	350.251852	1.28579769	0.53020492	0.00123017	0.0099137
ENSBTAG00000031890	85.067337	0.92418497	0.3678409	0.00123981	0.00996995
ENSBTAG00000020704	14.6570139	1.53997596	0.68321871	0.00124272	0.00998063
ENSBTAG00000015893	4.2282245	2.52228887	1.82073691	0.00124381	0.00998114
ENSBTAG000000008313	13.6730333	1.85567792	1.01345534	0.00124683	0.00998247
ENSBTAG000000014546	15.4347758	1.56742111	0.71301008	0.00124669	0.00998247
ENSBTAG000000005785	259.851323	0.7934889	0.28871067	0.00124862	0.00998891
ENSBTAG000000002563	331.518864	0.70248179	0.24884424	0.00124906	0.00998891

Under expressed genes						Under expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj	Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000014597	186.16828	-0.9872383	0.27062306	4.23e-05	0.00089841	ENSBTAG000000017326	55.2790819	-0.82462051	0.26053833	0.00031265	0.00369043
ENSBTAG000000014982	39.1498937	-0.92830005	0.25271863	4.34e-05	0.0009112	ENSBTAG000000000049	148.952396	-0.61528963	0.18557345	0.00031773	0.00373465
ENSBTAG000000023601	82.4305227	-1.29006368	0.36923706	4.48e-05	0.00093477	ENSBTAG000000011248	172.025619	-0.54639476	0.16306297	0.00032187	0.00376747
ENSBTAG000000012609	155.392805	-0.78874094	0.21273275	4.8e-05	0.00098247	ENSBTAG000000011108	94.2985436	-0.9217495	0.22983363	0.00032714	0.0038101
ENSBTAG000000011104	1585.65471	-0.50571632	0.1291688	4.96e-05	0.00100555	ENSBTAG000000033413	357.389116	-0.41255962	0.11994568	0.00033274	0.00384975
ENSBTAG000000002481	71.5973517	-0.94705717	0.26107327	5.05e-05	0.00102178	ENSBTAG000000001725	130.650012	-1.34210678	0.47058001	0.00033404	0.00386156
ENSBTAG000000003707	1074.97413	-0.9937806	0.27923812	5.28e-05	0.00105186	ENSBTAG000000049252	5.43366046	-2.0249195	0.73133068	0.00033479	0.00386707
ENSBTAG000000002979	20.6870544	-1.20085677	0.34238973	5.47e-05	0.00107986	ENSBTAG000000017001	168.799241	-0.74781216	0.23537926	0.00033525	0.00386916
ENSBTAG000000031327	239.463886	-0.92518389	0.2576149	5.5e-05	0.00108232	ENSBTAG000000007427	399.202615	-0.72391332	0.22961054	0.00034531	0.00395631
ENSBTAG000000007269	117.890576	-0.81108091	0.22376587	5.99e-05	0.00116306	ENSBTAG000000002279	1971.46873	-0.55729424	0.16847821	0.00034548	0.00395631
ENSBTAG000000021162	301.991251	-0.65414085	0.1748427	6.05e-05	0.00117109	ENSBTAG000000014523	340.77256	-1.68722806	0.624024	0.00034622	0.00395726
ENSBTAG000000019437	370.829007	-1.0437016	0.29991224	6.27e-05	0.0012015	ENSBTAG000000014272	325.267357	-0.46971929	0.13866964	0.00035194	0.00399996
ENSBTAG000000003702	409.237484	-0.61265555	0.1649618	6.72e-05	0.00126472	ENSBTAG000000030839	368.783828	-0.44149363	0.12887378	0.00035305	0.00400538
ENSBTAG000000015164	33.1271017	-0.8572867	0.24032971	6.75e-05	0.00126653	ENSBTAG000000006479	636.008785	-0.55191271	0.16962663	0.00035304	0.00400538
ENSBTAG000000014697	2002.00103	-0.48614072	0.12751991	6.96e-05	0.00129282	ENSBTAG000000037488	87.2608542	-0.73285184	0.229037	0.00035431	0.00401463
ENSBTAG000000011374	31.8070651	-1.51902693	0.45644859	7.03e-05	0.00130239	ENSBTAG000000004872	396.447836	-0.58259159	0.21383056	0.00035444	0.00401463
ENSBTAG0000000048140	191.018348	-0.73618162	0.20519541	7.59e-05	0.00137503	ENSBTAG000000007367	241.340446	-0.67223108	0.21027989	0.00035475	0.00401481
ENSBTAG000000009245	443.519186	-0.78996725	0.22160715	7.58e-05	0.00137503	ENSBTAG000000006086	289.847644	-1.45673059	0.53361787	0.00036127	0.0040624
ENSBTAG000000052323	867.769445	-0.5075393	0.13524435	7.62e-05	0.00137578	ENSBTAG000000021282	9.09992645	-2.46347029	0.10057478	0.00036966	0.00413677
ENSBTAG000000030744	200.91266	-0.76187623	0.21356415	7.64e-05	0.00137588	ENSBTAG000000015521	31.2134159	-1.12721237	0.38101896	0.00037213	0.00415786
ENSBTAG000000051830	63.6543736	-0.86326341	0.24763621	7.76e-05	0.00138933	ENSBTAG000000019219	329.072874	-0.45026024	0.13302619	0.00037846	0.00421661
ENSBTAG000000001484	86.980999	-0.88873206	0.25389646	7.82e-05	0.00139427	ENSBTAG000000014626	446.033029	-0.60155944	0.18131089	0.00038416	0.00426405
ENSBTAG000000008399	151.975929	-0.58243933	0.15901587	8.07e-05	0.00142292	ENSBTAG000000019645	679.678298	-0.37916446	0.11094875	0.0003864	0.00427629
ENSBTAG000000038480	75.3718409	-0.72999772	0.2054818	8.09e-05	0.00142411	ENSBTAG000000002707	635.950454	-0.9449243	0.31766302	0.00040591	0.00446404
ENSBTAG000000012322	120.523886	-1.14660818	0.33512545	8.2e-05	0.00143378	ENSBTAG000000011455	113.419327	-0.6290963	0.19558919	0.00041098	0.00451191
ENSBTAG000000000773	359.69467	-0.70792453	0.19543489	8.29e-05	0.00144776	ENSBTAG0000000020575	36.6675093	-1.29981665	0.46367908	0.00041998	0.00458509
ENSBTAG000000046481	287.731958	-0.46190383	0.12233152	8.34e-05	0.00145275	ENSBTAG000000008462	185.184564	-0.93103956	0.31511234	0.00042006	0.00458509
ENSBTAG000000010304	215.483266	-0.75864245	0.2167662	8.59e-05	0.00148043	ENSBTAG000000003381	491.048138	-0.4267493	0.12737396	0.00042019	0.00458509
ENSBTAG000000006422	2718.43708	-0.58484885	0.16092291	8.61e-05	0.00148096	ENSBTAG000000019362	289.287438	-0.65409076	0.20697591	0.0004449	0.00478026
ENSBTAG000000013648	10.47864	-2.11891552	0.71224812	8.83e-05	0.00150356	ENSBTAG000000021544	374.228992	-0.564323	0.17432192	0.00045547	0.00485661
ENSBTAG000000002655	194.958982	-1.06265158	0.3109364	8.88e-05	0.00150678	ENSBTAG000000015728	103.428616	-0.60288499	0.18346627	0.0004666	0.00493769
ENSBTAG000000014579	231.168108	-0.72319965	0.20293669	8.97e-05	0.00152027	ENSBTAG000000003552	276.860995	-0.56665119	0.17561629	0.0004798	0.00505433
ENSBTAG000000021374	414.827764	-0.85730664	0.24894806	9.46e-05	0.00158674	ENSBTAG000000035556	2237.90138	-0.39432079	0.11784711	0.00048015	0.00505433
ENSBTAG000000052677	396.55906	-1.60299342	0.50509603	0.00010021	0.00166161	ENSBTAG000000018978	505.488013	-0.53653383	0.16678069	0.00048251	0.00507037
ENSBTAG000000016937	751.10446	-0.74130016	0.21138192	0.00010095	0.00166988	ENSBTAG000000011121	70.7172928	-0.63057794	0.19862115	0.00048524	0.00508502
ENSBTAG000000021398	66.0055884	-1.39734456	0.43473873	0.00010652	0.00174721	ENSBTAG000000008962	146.871245	-0.8865489	0.18486627	0.00048765	0.00510647
ENSBTAG000000003323	301.47459	-0.95867207	0.28655721	0.00011044	0.00179506	ENSBTAG000000015588	116.20773	-0.68534674	0.14801608	0.00048818	0.00510824
ENSBTAG000000011136	161.133995	-1.06426729	0.32461614	0.0001133	0.00183315	ENSBTAG000000003653	324.369882	-0.43933365	0.20292669	0.00049381	0.00514403
ENSBTAG000000020282	106.773649	-1.01855769	0.30581535	0.00011445	0.00184535	ENSBTAG000000014339	255.316601	-0.63538712	0.20282984	0.00049578	0.00516072
ENSBTAG000000019443	1130.16845	-0.34493975	0.09196179	0.00011732	0.00188071	ENSBTAG000000014083	62.0718766	-0.87712825	0.30181733	0.00049941	0.00518697
ENSBTAG000000051047	143.559098	-1.29178704	0.41104138	0.0001177	0.0018853	ENSBTAG000000010890	378.542763	-0.73664891	0.24183604	0.00049987	0.00518786
ENSBTAG000000039212	67.1231655	-1.26032844	0.39003199	0.00011943	0.00189298	ENSBTAG000000012566	51.1020445	-1.09575077	0.38515887	0.00050319	0.00521849
ENSBTAG000000016034	203.532748	-0.7401549	0.21217428	0.00012259	0.00192338	ENSBTAG000000021051	245.886869	-0.8389018	0.28234877	0.00051561	0.00531197
ENSBTAG000000014235	179.400967	-0.5281528	0.14610281	0.00013021	0.00201138	ENSBTAG00000001548	551.356801	-0.59636766	0.19018169	0.00051646	0.00531681
ENSBTAG000000015116	905.076566	-0.56400987	0.1577504	0.00013088	0.00202196	ENSBTAG000000022292	139.998098	-0.83154891	0.27843755	0.00052118	0.00536784
ENSBTAG000000014734	2940.7187	-0.48648754	0.13420647	0.00013178	0.00208688	ENSBTAG000000046359	997.90968	-0.47669434	0.14552376	0.00052411	0.00537576
ENSBTAG000000009618	49.6128736	-1.02936055	0.31204861	0.00013796	0.00209162	ENSBTAG00000000856	126.736164	-0.78605457	0.26077411	0.00053013	0.00542168
ENSBTAG000000014215	210.620231	-0.8104015	0.24273644	0.00014218	0.00213051	ENSBTAG000000015901	341.842754	-0.49540031	0.15249005	0.0005354	0.00545961
ENSBTAG000000020252	284.59399	-0.8180923	0.2419528	0.00014337	0.00214157	ENSBTAG000000006080	21.9913191	-1.27631003	0.48020935	0.00055063	0.00557035
ENSBTAG000000030393	137.744638	-1.27827805	0.40505831	0.00014479	0.00215799	ENSBTAG000000002041	687.306387	-0.50034532	0.15480093	0.00055115	0.00557159
ENSBTAG000000021346	38.3279926	-0.91911096	0.27623099	0.0001458	0.00216632	ENSBTAG000000002093	325.499888	-0.75225303	0.2499888	0.0005524	0.00558015
ENSBTAG000000013197	357.086276	-0.60997895	0.17315893	0.00014807	0.00219077	ENSBTAG000000015414	555.003399	-0.42793554	0.13017171	0.00055432	0.00558665
ENSBTAG000000030939	84.2424896	-1.18261302	0.37362437	0.00014856	0.00219571	ENSBTAG000000020758	229.877176	-0.70399599	0.23232671	0.00055565	0.00558885
ENSBTAG000000010843	435.726976	-0.5468896	0.15401344	0.00015042	0.00221427	ENSBTAG000000010698	414.624552	-0.80829021	0.27091935	0.00056273	0.00564189
ENSBTAG0000000040490	16.8971042	-1.13759944	0.35379578	0.00015142	0.00222056	ENSBTAG000000001520	163.675925	-0.57252564	0.18025997	0.00056346	0.00564259
ENSBTAG000000018888	122.806011	-1.1089796	0.34878615	0.00015147	0.00222223	ENSBTAG000000013914	158.426011	-0.60176531	0.19207036	0.000565	0.00564638
ENSBTAG000000019329	444.08044	-0.54466317	0.15332518	0.00015412	0.00225404	ENSBTAG000000019086	431.799712	-0.81766417	0.27676588	0.00056563	0.00564861
ENSBTAG000000053873	230.28322	-0.64730516	0.18697431	0.00016479	0.00237291	ENSBTAG000000010096	26.2438667	-0.89140509	0.30439422	0.00057202	0.00569619
ENSBTAG000000002434	320.617863	-0.67902659	0.20037343	0.00017586	0.00248385	ENSBTAG000000054942	906.955238	-0.47436441	0.14606492	0.00057422	0.00571002
ENSBTAG0000000006103	737.077731	-0.84488481	0.25542678	0.00017874	0.00250853	ENSBTAG000000007245	104.078941	-0.84127761	0.2825753	0.0005762	0.00572159
ENSBTAG000000007668	81.0097095	-1.34306135	0.43733075	0.00018182	0.0025398	ENSBTAG000000014660	131.24639	-0.69218196	0.25276659	0.0005894	0.00582785
ENSBTAG000000002470	40.7862895	-1.08271482	0.34071915	0.00018825	0.0026063	ENSBTAG000000003784	541.90942	-0.64839423	0.21001404	0.00058864	0.00582785
ENSBTAG000000015036	105.312741	-0.62762739	0.18140388	0.00019175	0.00264434	ENSBTAG000000010884	92.1457722				

Under expressed genes					
Ensemble id	baseMean	log2Fold Change	lfcSE	pvalue	padj
ENSBTAG000000037941	326.462272	-0.83144407	0.29651603	0.00079939	0.00727287
ENSBTAG000000016824	367.585359	-0.66623789	0.22469563	0.00080942	0.00734985
ENSBTAG000000050453	63.3994055	-0.85123211	0.30630441	0.00081767	0.00739173
ENSBTAG000000051879	99.1174082	-1.41893099	0.58570845	0.0008182	0.00739173
ENSBTAG000000007681	241.5313	-0.83827563	0.29325376	0.00081878	0.00739173
ENSBTAG000000007299	557.499067	-0.46352195	0.14709046	0.00081833	0.00739173
ENSBTAG000000009032	71.2678901	-0.6590582	0.21995109	0.00082914	0.00746598
ENSBTAG000000046840	296.706912	-0.81485485	0.28522299	0.00086246	0.00772133
ENSBTAG000000021490	150.4858	-0.42570482	0.13522817	0.00087162	0.00777851
ENSBTAG000000052369	2273.68972	-0.75405363	0.26261088	0.00088656	0.00789063
ENSBTAG000000019312	497.461815	-0.46318218	0.14792607	0.00089012	0.00790787
ENSBTAG000000008705	21.0469723	-1.22532484	0.47972982	0.00090032	0.00796862
ENSBTAG000000000811	151.370066	-0.50050755	0.16198535	0.00091127	0.00804526
ENSBTAG000000008695	1718.40061	-0.71329081	0.24725998	0.00091788	0.00808829
ENSBTAG000000013702	615.0116	-0.99609963	0.37274745	0.00092565	0.00812607
ENSBTAG000000017418	349.75793	-0.71266974	0.24764137	0.00093108	0.00815843
ENSBTAG000000037729	78.8989325	-1.24769371	0.49421851	0.00093815	0.00820496
ENSBTAG000000054726	361.097611	-0.64354626	0.21723243	0.0009403	0.00820993
ENSBTAG000000016848	148.319716	-0.5088232	0.16549153	0.00094311	0.00822272
ENSBTAG000000048262	143.801295	-0.50736102	0.16586398	0.00094687	0.00824015
ENSBTAG000000009709	170.672279	-0.59866055	0.20211807	0.00095396	0.00829668
ENSBTAG000000031146	98.3198702	-0.65692617	0.22316224	0.00095637	0.00831246
ENSBTAG000000009965	201.571564	-0.3954332	0.12596851	0.00095975	0.00832673
ENSBTAG000000004790	91.0458914	-0.46698122	0.15081479	0.00096418	0.00835962
ENSBTAG000000026489	1035.13295	-1.22505962	0.4968124	0.00097106	0.00839849
ENSBTAG000000014106	769.79243	-0.5501291	0.18236729	0.00098149	0.00847657
ENSBTAG000000006320	176.597114	-0.60868772	0.20287622	0.00098491	0.00849729
ENSBTAG000000018804	423.802991	-0.88400574	0.32294664	0.00100608	0.00863209
ENSBTAG000000007986	528.341381	-0.47471539	0.15374926	0.00100594	0.00863209
ENSBTAG000000012534	48.1616021	-0.89761177	0.32979864	0.0010075	0.00863372
ENSBTAG000000019651	96.5786133	-0.8167314	0.29407499	0.00103049	0.00877166
ENSBTAG000000052734	26.3287511	-0.90813001	0.33200848	0.00105523	0.00893343
ENSBTAG000000015390	137.783132	-0.83632004	0.30552238	0.00105495	0.00893343
ENSBTAG000000001302	38.5198705	-0.74916698	0.26752538	0.00108424	0.00909502
ENSBTAG000000012658	147.961981	-0.50245752	0.16611566	0.00108454	0.00909502
ENSBTAG000000019634	280.510288	-0.77886471	0.27953997	0.0010847	0.00909502
ENSBTAG000000009216	454.881704	-0.90824995	0.3411192	0.0010897	0.00912482
ENSBTAG000000000046	61.4864443	-0.92290665	0.34914907	0.00109763	0.00915956
ENSBTAG000000008888	317.728432	-0.47630719	0.15652872	0.00110495	0.00918232
ENSBTAG000000012792	756.000433	-0.51356971	0.17058583	0.00112076	0.00929166
ENSBTAG000000000080	220.340817	-0.61159493	0.2127384	0.00112726	0.00932658
ENSBTAG000000006481	480.907717	-0.72662198	0.25835467	0.00112763	0.00932658
ENSBTAG000000021173	35.7547841	-1.01343649	0.39671626	0.00114081	0.00940461
ENSBTAG000000032003	57.4168005	-1.03417835	0.39713593	0.00114369	0.00941495
ENSBTAG000000015158	194.546234	-0.51775648	0.17224225	0.00114355	0.00941495
ENSBTAG000000019434	2473.18868	-0.74314375	0.26879093	0.00114807	0.00943988
ENSBTAG000000016053	514.083038	-0.55199284	0.18712462	0.00114955	0.00944653
ENSBTAG000000016680	451.81958	-0.69905923	0.24692129	0.00115301	0.00945829
ENSBTAG000000038233	489.980355	-0.52905946	0.17656969	0.00115492	0.00946288
ENSBTAG000000000964	1165.07431	-0.72876992	0.26251687	0.0011543	0.00946288
ENSBTAG000000014442	64.9165946	-0.62547258	0.21539276	0.00115854	0.00948148
ENSBTAG000000000602	1184.11154	-0.67860953	0.23873029	0.00115787	0.00948148
ENSBTAG000000016910	75.9903987	-0.75436839	0.27365727	0.00116325	0.0095089
ENSBTAG000000031874	4.49010618	-2.90033466	1.268407	0.00118026	0.00961993
ENSBTAG000000007784	651.568285	-0.50445046	0.16819976	0.00119372	0.00969577
ENSBTAG000000047734	131.951275	-0.72510429	0.25994859	0.00119572	0.0097064
ENSBTAG000000020873	1648.59867	-0.61481212	0.21234665	0.00121054	0.00979833
ENSBTAG000000002460	230.109334	-0.77044058	0.27987009	0.00121439	0.00981813
ENSBTAG000000011471	652.841015	-0.85166765	0.32365694	0.00121798	0.00983016
ENSBTAG000000009969	1890.15118	-0.52762488	0.17815323	0.00122452	0.00987726
ENSBTAG000000019369	178.264965	-0.91171876	0.34398203	0.0012363	0.00995384
ENSBTAG000000002742	538.127786	-0.84774774	0.3199749	0.00123686	0.00995384
ENSBTAG000000011321	121.711814	-0.82977876	0.30555738	0.00124028	0.00996995
ENSBTAG000000008241	293.295043	-0.50735025	0.17026474	0.00124304	0.00998063
ENSBTAG000000008556	1093.15259	-0.94836033	0.36293681	0.00124458	0.00998154
ENSBTAG000000026497	119.814193	-0.89513355	0.347884	0.00124551	0.00998247

Supplementary Table S5. Functional enrichment analysis of differentially expressed genes (DEGs), including significantly enriched Gene Ontology (GO) terms and KEGG pathways, with and without adjustment for milk production as a covariate.

Go terms of under expressed genes												
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_MF_DIRECT	tRNA binding	6.0	4.76190476190476	2.55835761893344e-05	ENSBTAG000000023365, ENSBTAG000000021374,	95.0	68.0	18352.0	17.04520123839	0.00431434603756442	0.00434920795218686	0.00434920795218686
					ENSBTAG000000015728, ENSBTAG000000019437,							
					ENSBTAG000000039212, ENSBTAG000000021398							
Go terms of over expressed genes												
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_BP_DIRECT	inflammatory response	48.0	5327413984.0	1.45E-17	ENSBTAG000000011961, ENSBTAG000000027051,	785.0	238.0	16918.0	4346539635.0	4.05E-14	4.05E-14	4.02E-14
					ENSBTAG000000019428, ENSBTAG000000004211,							
					ENSBTAG000000025250, ENSBTAG000000020755,							
					ENSBTAG000000012638, ENSBTAG000000020554,							
					ENSBTAG000000021523, ENSBTAG000000022039,							
					ENSBTAG000000020872, ENSBTAG000000006155,							
					ENSBTAG000000003289, ENSBTAG000000001321,							
					ENSBTAG000000020892, ENSBTAG000000025257,							
					ENSBTAG00000003326, ENSBTAG000000027513,							
					ENSBTAG00000000277, ENSBTAG000000048980,							
					ENSBTAG00000003806, ENSBTAG000000024928,							
					ENSBTAG000000037735, ENSBTAG000000014972,							
					ENSBTAG000000037778, ENSBTAG000000037558,							
					ENSBTAG000000019665, ENSBTAG000000015520,							
					ENSBTAG000000006240, ENSBTAG000000011578,							
					ENSBTAG000000015978, ENSBTAG000000019716,							
					ENSBTAG000000010987, ENSBTAG000000009812,							
					ENSBTAG00000000283, ENSBTAG000000001273,							
					ENSBTAG000000002163, ENSBTAG000000023832,							
					ENSBTAG000000000808, ENSBTAG000000026753,							
					ENSBTAG00000000225, ENSBTAG000000002006,							
					ENSBTAG000000006608, ENSBTAG000000001338,							
					ENSBTAG000000008507, ENSBTAG000000018223,							
					ENSBTAG000000015032, ENSBTAG000000035378							
GOTERM_BP_DIRECT	neutrophil chemotaxis	20.0	2219755827.0	1.72E-11	ENSBTAG000000013334, ENSBTAG000000011961,	785.0	61.0	16918.0	7066095855.0	4.79E-08	2.39E-08	2.38E-08
					ENSBTAG000000019716, ENSBTAG000000009812,							
					ENSBTAG000000025250, ENSBTAG000000015609,							
					ENSBTAG000000003289, ENSBTAG000000020872,							
					ENSBTAG000000026753, ENSBTAG000000025257,							
					ENSBTAG000000027513, ENSBTAG000000017593,							
					ENSBTAG000000024503, ENSBTAG000000023283,							
					ENSBTAG000000048980, ENSBTAG000000006505,							
					ENSBTAG000000053578, ENSBTAG000000037778,							
					ENSBTAG000000037558, ENSBTAG000000012640,							
					ENSBTAG000000019708, ENSBTAG000000013205,							
					ENSBTAG000000011109, ENSBTAG000000027051,							
GOTERM_CC_DIRECT	membrane	88.0	9766925638.0	8.57E-10	ENSBTAG000000008291, ENSBTAG000000021746,	844.0	1084.0	20749.0	1995759081.0	4.08E-07	3.20E-07	3.03E-07
					ENSBTAG000000008294, ENSBTAG000000023648,							
					ENSBTAG000000020699, ENSBTAG000000003043,							
					ENSBTAG000000007129, ENSBTAG000000015828,							
					ENSBTAG000000008338, ENSBTAG000000003882,							
					ENSBTAG000000020892, ENSBTAG000000001105,							
					ENSBTAG000000001941, ENSBTAG000000002555,							
					ENSBTAG000000031998, ENSBTAG000000015742,							
					ENSBTAG000000016355, ENSBTAG000000013577,							
					ENSBTAG000000010068, ENSBTAG000000011236,							
					ENSBTAG000000010303, ENSBTAG000000011515,							
					ENSBTAG000000012408, ENSBTAG000000001273,							
					ENSBTAG000000024493, ENSBTAG000000020225,							
					ENSBTAG000000010948, ENSBTAG000000003454,							
					ENSBTAG000000001233, ENSBTAG000000001077,							
					ENSBTAG000000004305, ENSBTAG0000000046152,							
					ENSBTAG000000008507, ENSBTAG000000004427,							
					ENSBTAG000000018984, ENSBTAG000000015276,							
					ENSBTAG000000019712, ENSBTAG000000019552,							
					ENSBTAG000000013495, ENSBTAG000000011684,							
					ENSBTAG000000019927, ENSBTAG000000017866,							
					ENSBTAG000000016139, ENSBTAG000000011765,							
					ENSBTAG000000011446, ENSBTAG000000012779,							
					ENSBTAG000000010756, ENSBTAG000000004475,							
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					ENSBTAG000000000874, ENSBTAG000000004556,							
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					ENSBTAG000000014764, ENSBTAG000000010047,							
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					ENSBTAG000000006343, ENSBTAG000000006202,							
					ENSBTAG000000002187, ENSBTAG000000024950,							
					ENSBTAG000000048631, ENSBTAG000000004190,							
					ENSBTAG000000017273, ENSBTAG000000005339,							
					ENSBTAG000000048591, ENSBTAG000000039046,							
					ENSBTAG000000018761							
					ENSBTAG000000014611, ENSBTAG000000008291,							
GOTERM_CC_DIRECT	extracellular space	104.0	115427303.0	1.34E-09	ENSBTAG000000010899, ENSBTAG000000004777,	844.0	1382.0	20749.0	1850035322.0	6.39E-07	3.20E-07	3.03E-07
					ENSBTAG00000001941, ENSBTAG000000004777,							
					ENSBTAG000000031998, ENSBTAG000000048980,							
					ENSBTAG000000018134, ENSBTAG000000015147,							
					ENSBTAG000000017722, ENSBTAG000000015145,							
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					ENSBTAG000000006685, ENSBTAG000000030814,							
					ENSBTAG00000002006, ENSBTAG000000020580,							
					ENSBTAG000000049782, ENSBTAG000000009717,							
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					ENSBTAG000000018223, ENSBTAG000000016204,							
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					ENSBTAG000000025250, ENSBTAG000000020116,							
					ENSBTAG000000020755, ENSBTAG000000001321,							
					ENSBTAG000000000078, ENSBTAG000000025257,							

Go terms of over expressed genes												
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_CC_DIRECT	external side of plasma membrane	42.0	4661487236.0	1.27E-08	ENSBTAG00000000598, ENSBTAG000000004716, ENSBTAG0000000048122, ENSBTAG000000003109, ENSBTAG000000052312, ENSBTAG000000010273, ENSBTAG000000017863, ENSBTAG000000012228, ENSBTAG000000015978, ENSBTAG000000009051, ENSBTAG000000047302, ENSBTAG000000049569, ENSBTAG000000021176, ENSBTAG00000006505, ENSBTAG000000012066, ENSBTAG000000017753, ENSBTAG000000017801, ENSBTAG000000019428, ENSBTAG000000011446, ENSBTAG000000010660, ENSBTAG000000013525, ENSBTAG000000021746, ENSBTAG000000012815, ENSBTAG000000020116, ENSBTAG000000005146, ENSBTAG000000020755, ENSBTAG00000002135, ENSBTAG00000006155, ENSBTAG000000007169, ENSBTAG0000000052514, ENSBTAG000000002951, ENSBTAG000000024503, ENSBTAG000000022977, ENSBTAG000000018474, ENSBTAG0000000054018, ENSBTAG000000013334, ENSBTAG000000006240, ENSBTAG000000014764, ENSBTAG000000010785, ENSBTAG000000005273, ENSBTAG000000045948, ENSBTAG000000049808, ENSBTAG000000004741, ENSBTAG000000027760, 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Go terms of over expressed genes												
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_MF_DIRECT	chemokine activity	12.0	1331853496.0	1.21E-06	ENSBTAG000000022799, ENSBTAG000000007662, ENSBTAG000000020453, ENSBTAG000000005947, ENSBTAG000000001105, ENSBTAG000000018134, ENSBTAG000000013240, ENSBTAG000000015147, ENSBTAG000000018993, ENSBTAG000000013555, ENSBTAG000000014324, ENSBTAG000000014269, ENSBTAG000000011578, ENSBTAG000000020704, ENSBTAG000000011931, ENSBTAG000000015318, ENSBTAG000000007338, ENSBTAG000000023832, ENSBTAG000000008008, ENSBTAG000000005034, ENSBTAG000000006420, ENSBTAG000000000224, ENSBTAG000000002006, ENSBTAG000000000783, ENSBTAG000000005018, ENSBTAG000000009717, ENSBTAG000000005339, ENSBTAG000000008849, ENSBTAG000000017753	759.0	44.0	18366.0	6599353216.0	0.00109462565873907	0.00109643740800489	0.00107581856294285
					ENSBTAG000000027513, ENSBTAG000000011961, ENSBTAG000000031998, ENSBTAG000000048980, ENSBTAG000000019716, ENSBTAG000000009812, ENSBTAG000000025250, ENSBTAG000000053578, ENSBTAG000000003289, ENSBTAG000000037558, ENSBTAG000000037778, ENSBTAG000000025257							
					ENSBTAG000000008330, ENSBTAG000000007129, ENSBTAG000000008338, ENSBTAG000000002233, ENSBTAG000000006155, ENSBTAG000000003326, ENSBTAG000000005865, ENSBTAG000000001945, ENSBTAG000000004777, ENSBTAG000000005868, ENSBTAG000000031358, ENSBTAG000000018134, ENSBTAG000000034985, ENSBTAG000000010662, ENSBTAG000000011994, ENSBTAG000000012962, ENSBTAG000000011991, ENSBTAG000000004783, ENSBTAG000000023736, ENSBTAG000000001273, ENSBTAG000000002492, ENSBTAG000000003334, ENSBTAG000000005078, ENSBTAG000000023179, ENSBTAG000000002363, ENSBTAG000000006606, ENSBTAG000000000746, ENSBTAG000000004305, ENSBTAG000000002922, ENSBTAG000000000507, ENSBTAG000000017970, ENSBTAG000000019910, ENSBTAG000000013495, ENSBTAG000000012043, ENSBTAG000000014555, ENSBTAG0000000005163, ENSBTAG000000016618, ENSBTAG000000021527, ENSBTAG000000020312, ENSBTAG000000020554, ENSBTAG000000021523, ENSBTAG000000001483, ENSBTAG0000000048565, ENSBTAG000000003305, ENSBTAG000000038080, ENSBTAG000000000277, ENSBTAG000000004636, ENSBTAG000000000711, ENSBTAG000000015083, ENSBTAG000000015089, ENSBTAG0000000051542, ENSBTAG000000017147, ENSBTAG000000011970, ENSBTAG000000004770, ENSBTAG000000008683, ENSBTAG000000037421, ENSBTAG000000014567, ENSBTAG000000010763, ENSBTAG000000021416, ENSBTAG000000009658, ENSBTAG000000011857, ENSBTAG0000000007118, ENSBTAG000000000163, ENSBTAG0000000040151, ENSBTAG000000017273, ENSBTAG000000010057, ENSBTAG000000010971, ENSBTAG000000019428, ENSBTAG000000011820, ENSBTAG000000021746, ENSBTAG000000008096, ENSBTAG000000020658, ENSBTAG000000009863, ENSBTAG0000000021741, ENSBTAG000000000130, ENSBTAG0000000001105, ENSBTAG0000000021187, ENSBTAG000000004856, ENSBTAG000000038186, ENSBTAG000000000816, ENSBTAG000000000813, ENSBTAG000000015513, ENSBTAG000000010868, ENSBTAG000000004741, ENSBTAG000000009995, ENSBTAG000000005034, ENSBTAG000000017490, ENSBTAG000000031544, ENSBTAG000000018223, ENSBTAG000000018463, ENSBTAG000000035587, ENSBTAG0000000033961, ENSBTAG000000016932, ENSBTAG000000014636, ENSBTAG0000000027151, ENSBTAG000000005246, ENSBTAG000000008635, ENSBTAG000000007662, ENSBTAG000000001562, ENSBTAG000000006572, ENSBTAG000000007661, ENSBTAG000000052317, ENSBTAG0000000046343, ENSBTAG000000003746, ENSBTAG000000010394, ENSBTAG000000034366, ENSBTAG000000010153, ENSBTAG000000010047, ENSBTAG000000009055, ENSBTAG000000011019, ENSBTAG000000015978, ENSBTAG000000006343, ENSBTAG0000000046337, ENSBTAG000000001338, ENSBTAG000000030675, ENSBTAG000000014762, ENSBTAG000000011494, ENSBTAG000000011011, ENSBTAG0000000025191, ENSBTAG000000014614, ENSBTAG000000008293, ENSBTAG0000000021820, ENSBTAG000000003840, ENSBTAG000000002996, ENSBTAG00000001785, ENSBTAG000000006679, ENSBTAG000000015147, ENSBTAG000000015145, ENSBTAG000000014178, ENSBTAG000000013414, ENSBTAG000000015711, ENSBTAG000000020747, ENSBTAG000000002082, ENSBTAG000000004024, ENSBTAG0000000044017, ENSBTAG000000010948, ENSBTAG000000010828, ENSBTAG000000000225, ENSBTAG000000014182, ENSBTAG000000008507, ENSBTAG000000013093, ENSBTAG000000019079, ENSBTAG000000013410, ENSBTAG000000018785, ENSBTAG000000013863, ENSBTAG000000010910, ENSBTAG000000004475, ENSBTAG000000008952, ENSBTAG000000010913, ENSBTAG000000023666, ENSBTAG000000000672, ENSBTAG000000004472, ENSBTAG000000002615, ENSBTAG000000003825, ENSBTAG000000000436, ENSBTAG000000014030, ENSBTAG000000017661, ENSBTAG000000013064, ENSBTAG000000013860, ENSBTAG000000013631, ENSBTAG000000010007, ENSBTAG0000000051030, ENSBTAG000000003033, ENSBTAG000000007994, ENSBTAG000000002623, ENSBTAG000000005339, ENSBTAG000000002624, ENSBTAG000000003719, ENSBTAG000000012638, ENSBTAG000000007166, ENSBTAG000000014269, ENSBTAG000000010107, ENSBTAG000000005432, ENSBTAG000000004587, ENSBTAG000000027444, ENSBTAG000000019155, ENSBTAG000000001510, ENSBTAG000000004349, ENSBTAG000000018984, ENSBTAG000000016683, ENSBTAG000000014261, ENSBTAG000000018189, ENSBTAG000000013055, ENSBTAG000000037800, ENSBTAG000000051972, ENSBTAG000000016414, ENSBTAG000000017866, ENSBTAG0000000044208, ENSBTAG0000000046509, ENSBTAG000000025250, ENSBTAG000000023744, ENSBTAG000000046862, ENSBTAG000000020350, ENSBTAG000000000874, ENSBTAG00000001601, ENSBTAG000000031814, ENSBTAG000000012293, ENSBTAG000000012052, ENSBTAG000000019123, ENSBTAG000000007952, ENSBTAG000000002266, ENSBTAG000000005650, ENSBTAG000000020000, ENSBTAG000000040190, ENSBTAG000000006505, ENSBTAG000000053015, ENSBTAG000000017753, ENSBTAG000000010681							
					ENSBTAG000000006240, ENSBTAG000000014324, ENSBTAG000000014611, ENSBTAG000000010785, ENSBTAG00000001578, ENSBTAG000000007434, ENSBTAG00000002096, ENSBTAG000000008008, ENSBTAG000000002773, ENSBTAG000000052514, ENSBTAG000000001941, ENSBTAG000000005018, ENSBTAG000000024901, ENSBTAG000000019798, ENSBTAG000000048591, ENSBTAG000000052486, ENSBTAG000000054018, ENSBTAG000000012066							
					ENSBTAG000000006240, ENSBTAG000000014324, ENSBTAG000000014611, ENSBTAG000000010785, ENSBTAG00000001578, ENSBTAG000000007434, ENSBTAG00000002096, ENSBTAG000000008008, ENSBTAG000000002773, ENSBTAG000000052514, ENSBTAG000000001941, ENSBTAG000000005018, ENSBTAG000000024901, ENSBTAG000000019798, ENSBTAG000000048591, ENSBTAG000000052486, ENSBTAG000000054018, ENSBTAG000000012066							
					ENSBTAG000000006240, ENSBTAG000000014324, ENSBTAG000000014611, ENSBTAG000000010785, ENSBTAG00000001578, ENSBTAG000000007434, ENSBTAG00000002096, ENSBTAG000000008008, ENSBTAG000000002773, ENSBTAG000000052514, ENSBTAG000000001941, ENSBTAG000000005018, ENSBTAG000000024901, ENSBTAG000000019798, ENSBTAG000000048591, ENSBTAG000000052486, ENSBTAG000000054018, ENSBTAG000000012066							
					ENSBTAG000000006240, ENSBTAG000000014324, ENSBTAG000000014611, ENSBTAG000000010785, ENSBTAG00000001578, ENSBTAG000000007434, ENSBTAG00000002096, ENSBTAG000000008008, ENSBTAG000000002773, ENSBTAG000000052514, ENSBTAG000000001941, ENSBTAG000000005018, ENSBTAG000000024901, ENSBTAG000000019798, ENSBTAG000000048591, ENSBTAG000000052486, ENSBTAG000000054018, ENSBTAG000000012066							
					ENSBTAG000000006240, ENSBTAG000000014324, ENSBTAG000000014611, ENSBTAG000000010785, ENSBTAG00000001578, ENSBTAG000000007434, ENSBTAG00000002096, ENSBTAG000000008008, ENSBTAG000000002773, ENSBTAG000000052514, ENSBTAG000000001941, ENSBTAG000000005018, ENSBTAG000000024901, ENSBTAG000000019798, ENSBTAG000000048591, ENSBTAG000000052486, ENSBTAG000000054018, ENSBTAG000000012066							
					ENSBTAG000000006240, ENSBTAG000000014324, ENSBTAG000000014611, ENSBTAG000000010785, ENSBTAG00000001578, ENSBTAG000000007434, ENSBTAG00000002096, ENSBTAG000000008008, ENSBTAG000000002773, ENSBTAG000000052514, ENSBTAG000000001941, ENSBTAG000000005018, ENSBTAG000000024901, ENSBTAG000000019798, ENSBTAG000000048591, ENSBTAG000000052486, ENSBTAG000000054018, ENSBTAG000000012066							
					ENSBTAG000000006240, ENSBTAG000000014324, ENSBTAG000000014611, ENSBTAG000000010785, ENSBTAG00000001578, ENSBTAG000000007434, ENSBTAG00000002096, ENSBTAG000000008008, ENSBTAG000000002773, ENSBTAG000000052514, ENSBTAG000000001941, ENSBTAG000000005018, ENSBTAG000000024901, ENSBTAG000000019798, ENSBTAG000000048591, ENSBTAG000000052486, ENSBTAG000000054018, ENSBTAG000000012066							
GOTERM_MF_DIRECT	sialic acid binding	8.0	887902331.0	9.60E-06	ENSBTAG000000045880, ENSBTAG000000035868, ENSBTAG000000019227, ENSBTAG000000020755, ENSBTAG000000004608, ENSBTAG000000037537, ENSBTAG000000050510, ENSBTAG000000008851	759.0	20.0	18366.0	9679051383.0	0.00863269843742342	0.00230620850974746	0.00226283954440929
					ENSBTAG000000006240, ENSBTAG000000014324, ENSBTAG000000014611, ENSBTAG000000010785, ENSBTAG00000001578, ENSBTAG000000007434, ENSBTAG00000002096, ENSBTAG000000008008, ENSBTAG000000002773, ENSBTAG000000052514, ENSBTAG000000001941, ENSBTAG000000005018, ENSBTAG000000024901, ENSBTAG000000019798, ENSBTAG000000048591, ENSBTAG000000052486, ENSBTAG000000054018, ENSBTAG000000012066							
					ENSBTAG000000006240, ENSBTAG000000014324, ENSBTAG000000014611, ENSBTAG000000010785, ENSBTAG00000001578, ENSBTAG000000007434, ENSBTAG00000002096, ENSBTAG000000008008, ENSBTAG000000002773, ENSBTAG000000052514, ENSBTAG000000001941, ENSBTAG000000005018, ENSBTAG000000024901, ENSBTAG000000019798, ENSBTAG000000048591, ENSBTAG000000052486, ENSBTAG000000054018, ENSBTAG000000012066							
					ENSBTAG000000006240, ENSBTAG000000014324, ENSBTAG000000014611, ENSBTAG000000010785, ENSBTAG00000001578, ENSBTAG000000007434, ENSBTAG00000002096, ENSBTAG000000008008, ENSBTAG000000002773, ENSBTAG000000052514, ENSBTAG000000001941, ENSBTAG000000005018, ENSBTAG000000024901, ENSBTAG000000019798, ENSBTAG000000048591, ENSBTAG000000052486, ENSBTAG000000054018, ENSBTAG000000012066							
					ENSBTAG000000006240, ENSBTAG000000014324, ENSBTAG000000014611, ENSBTAG000000010785, ENSBTAG00000001578, ENSBTAG000000007434, ENSBTAG00000002096, ENSBTAG000000008008, ENSBTAG000000002773, ENSBTAG000000052514, ENSBTAG000000001941, ENSBTAG000000005018, ENSBTAG000000024901, ENSBTAG000000019798, ENSBTAG000000048591, ENSBTAG000000052486, ENSBTAG000000054018, ENSBTAG000000012066							
					ENSBTAG000000006240, ENSBTAG000000014324, ENSBTAG000000014611, ENSBTAG000000010785, ENSBTAG00000001578, ENSBTAG000000007434, ENSBTAG00000002096, ENSBTAG000000008008, ENSBTAG000000002773, ENSBTAG000000052514, ENSBTAG000000001941, ENSBTAG000000005018, ENSBTAG000000024901, ENSBTAG000000019798, ENSBTAG000000048591, ENSBTAG000000052486, ENSBTAG000000054018, ENSBTAG000000012066							

Go terms of over expressed genes												
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_MF_DIRECT	calcium-dependent protein binding	13.0	1442841287.0	1.02E-05	ENSBTAG00000005163, ENSBTAG000000015978, ENSBTAG000000018517, ENSBTAG000000012638, ENSBTAG000000020755, ENSBTAG00000001105, ENSBTAG000000004777, ENSBTAG000000006505, ENSBTAG000000015147, ENSBTAG000000010153, ENSBTAG000000012640, ENSBTAG000000015145, ENSBTAG000000019203	759.0	64.0	18366.0	4915143281.0	0.00917235156327001	0.00230620850974746	0.00226283954440929
GOTERM_CC_DIRECT	integral component of plasma membrane	62.0	6881243063.0	6.06E-05	ENSBTAG000000013125, ENSBTAG000000018819, ENSBTAG000000016359, ENSBTAG000000020699, ENSBTAG000000006155, ENSBTAG000000007169, ENSBTAG000000008059, ENSBTAG000000001941, ENSBTAG000000024503, ENSBTAG000000005668, ENSBTAG000000019349, ENSBTAG000000038981, ENSBTAG000000015742, ENSBTAG000000006240, ENSBTAG000000014269, ENSBTAG000000005471, ENSBTAG000000010303, ENSBTAG000000011515, ENSBTAG000000007338, ENSBTAG000000002224, ENSBTAG000000013170, ENSBTAG000000015276, ENSBTAG000000015592, ENSBTAG000000038375, ENSBTAG000000014861, ENSBTAG000000019432, ENSBTAG000000011245, ENSBTAG000000011446, ENSBTAG000000021527, ENSBTAG000000021766, ENSBTAG000000006775, ENSBTAG000000002252, ENSBTAG000000020755, ENSBTAG0000000047914, ENSBTAG00000002096, ENSBTAG000000052514, ENSBTAG000000004556, ENSBTAG000000002937, ENSBTAG000000054018, ENSBTAG000000013861, ENSBTAG000000019125, ENSBTAG000000021818, ENSBTAG000000030193, ENSBTAG000000016944, ENSBTAG000000014764, ENSBTAG000000012228, ENSBTAG000000011931, ENSBTAG000000010328, ENSBTAG00000001173, ENSBTAG000000003074, ENSBTAG000000008008, ENSBTAG000000023832, ENSBTAG00000006221, ENSBTAG000000006420, ENSBTAG00000003353, ENSBTAG000000018280, ENSBTAG000000044071, ENSBTAG000000002702, ENSBTAG000000044194, ENSBTAG000000048591, ENSBTAG000000052486, ENSBTAG000000012066, ENSBTAG000000013367, ENSBTAG000000017866, ENSBTAG000000010785, ENSBTAG000000004211, ENSBTAG000000013749, ENSBTAG000000008008, ENSBTAG00000003001, ENSBTAG000000009048, ENSBTAG000000005018, ENSBTAG000000019349, ENSBTAG000000039046, ENSBTAG000000038375, ENSBTAG000000024928, ENSBTAG000000015032, ENSBTAG000000015147, ENSBTAG000000012066, ENSBTAG000000017753	844.0	898.0	20749.0	169734481.0	0.0284343526368611	0.00412079502762952	0.00390436671735486
GOTERM_CC_DIRECT	membrane raft	17.0	1886792453.0	7.66E-05	ENSBTAG00000001367, ENSBTAG000000017866, ENSBTAG000000010785, ENSBTAG000000004211, ENSBTAG000000013749, ENSBTAG000000008008, ENSBTAG00000003001, ENSBTAG000000009048, ENSBTAG000000005018, ENSBTAG000000019349, ENSBTAG000000039046, ENSBTAG000000038375, ENSBTAG000000024928, ENSBTAG000000015032, ENSBTAG000000015147, ENSBTAG000000012066, ENSBTAG000000017753	844.0	130.0	20749.0	3214846883.0	0.0358040835556101	0.00455742197678112	0.00431806157884093
GOTERM_MF_DIRECT	calcium ion binding	50.0	5549389567.0	3.28E-05	ENSBTAG000000013689, ENSBTAG000000021746, ENSBTAG000000012638, ENSBTAG000000022799, ENSBTAG000000008338, ENSBTAG000000001105, ENSBTAG000000050712, ENSBTAG00000001785, ENSBTAG000000006999, ENSBTAG000000004777, ENSBTAG000000018255, ENSBTAG000000038981, ENSBTAG000000015147, ENSBTAG000000015145, ENSBTAG000000016208, ENSBTAG000000011515, ENSBTAG000000019915, ENSBTAG000000014906, ENSBTAG00000002006, ENSBTAG000000013290, ENSBTAG000000019272, ENSBTAG000000019079, ENSBTAG000000012043, ENSBTAG000000012640, ENSBTAG00000005163, ENSBTAG000000018517, ENSBTAG000000004475, ENSBTAG000000020755, ENSBTAG000000047914, ENSBTAG000000020554, ENSBTAG000000008951, ENSBTAG000000009048, ENSBTAG00000002937, ENSBTAG000000012052, ENSBTAG000000013861, ENSBTAG000000010153, ENSBTAG000000019203, ENSBTAG000000021818, ENSBTAG00000005091, ENSBTAG000000015978, ENSBTAG000000007239, ENSBTAG000000012508, ENSBTAG000000023832, ENSBTAG000000003752, ENSBTAG000000020089, ENSBTAG00000003758, ENSBTAG000000006505, ENSBTAG000000018446, ENSBTAG000000048591, ENSBTAG000000012387, ENSBTAG00000001334, ENSBTAG000000054081, ENSBTAG000000011578, ENSBTAG000000045948, ENSBTAG00000004808, ENSBTAG000000010987, ENSBTAG000000045854, ENSBTAG000000004211, ENSBTAG000000004741, ENSBTAG000000021523, ENSBTAG000000027760, ENSBTAG000000001321, ENSBTAG000000004386, ENSBTAG000000053934, ENSBTAG000000050566, ENSBTAG000000046383, ENSBTAG000000054949, ENSBTAG000000053696, ENSBTAG000000019338, ENSBTAG000000018474, ENSBTAG000000010273	759.0	647.0	18366.0	1869986743.0	0.0292128935808357	0.00593608644828634	0.00582445650401547
GOTERM_BP_DIRECT	cytokine-mediated signaling pathway	21.0	2330743618.0	1.21E-05	ENSBTAG000000013334, ENSBTAG000000054081, ENSBTAG000000011578, ENSBTAG000000045948, ENSBTAG000000049808, ENSBTAG000000010987, ENSBTAG000000045854, ENSBTAG000000004211, ENSBTAG000000004741, ENSBTAG000000021523, ENSBTAG000000027760, ENSBTAG000000001321, ENSBTAG000000004386, ENSBTAG000000053934, ENSBTAG000000050566, ENSBTAG000000046383, ENSBTAG000000054949, ENSBTAG000000053696, ENSBTAG000000019338, ENSBTAG000000018474, ENSBTAG000000010273	785.0	145.0	16918.0	31212651.0	0.0332685768459638	0.00676444822329285	0.00671839859368247
GOTERM_MF_DIRECT	cytokine receptor activity	11.0	1220865705.0	5.26E-05	ENSBTAG000000013334, ENSBTAG000000011578, ENSBTAG000000009064, ENSBTAG000000045948, ENSBTAG000000049808, ENSBTAG000000019567, ENSBTAG000000053696, ENSBTAG000000019338, ENSBTAG000000004741, ENSBTAG000000027760, ENSBTAG000000018474	759.0	53.0	18366.0	5022149303.0	0.0464181112431789	0.00693515370341883	0.0068047359896958
GOTERM_MF_DIRECT	identical protein binding	69.0	7658157603.0	5.37E-05	ENSBTAG000000011820, ENSBTAG000000013525, ENSBTAG000000008294, ENSBTAG000000020658, ENSBTAG000000022799, ENSBTAG000000021820, ENSBTAG000000014090, ENSBTAG000000001105, ENSBTAG000000050712, ENSBTAG000000024503, ENSBTAG000000019349, ENSBTAG000000017363, ENSBTAG000000012671, ENSBTAG000000016208, ENSBTAG000000011994, ENSBTAG000000006240, ENSBTAG00000005471, ENSBTAG000000010785, ENSBTAG000000020747, ENSBTAG00000002082, ENSBTAG000000010107, ENSBTAG00000004783, ENSBTAG000000010868, ENSBTAG000000004741, ENSBTAG000000009513, ENSBTAG000000008389, ENSBTAG000000001511, ENSBTAG000000019033, ENSBTAG000000014182, ENSBTAG000000004349, ENSBTAG00000000507, ENSBTAG000000016683, ENSBTAG000000014261, ENSBTAG000000038375, ENSBTAG000000015312, ENSBTAG000000018463, ENSBTAG000000012043, ENSBTAG000000019675, ENSBTAG000000051972, ENSBTAG000000015127, ENSBTAG000000021527, ENSBTAG000000009768, ENSBTAG000000004037, ENSBTAG000000020676, ENSBTAG00000001562, ENSBTAG000000002135, ENSBTAG000000043553, ENSBTAG000000021480, ENSBTAG000000000436, ENSBTAG000000012293, ENSBTAG000000012052, ENSBTAG000000052312, ENSBTAG000000019203, ENSBTAG000000009901, ENSBTAG000000013510, ENSBTAG000000016944, ENSBTAG000000010487, ENSBTAG000000032374, ENSBTAG000000010888, ENSBTAG000000003396, ENSBTAG000000000040, ENSBTAG000000001173, ENSBTAG000000011857, ENSBTAG000000007952, ENSBTAG000000008008, ENSBTAG00000005373, ENSBTAG00000002266, ENSBTAG000000011494, ENSBTAG000000017753	759.0	1014.0	18366.0	1646584185.0	0.0473366366546348	0.00693515370341883	0.0068047359896958
GOTERM_BP_DIRECT	cell adhesion	32.0	3551609323.0	1.76E-05	ENSBTAG000000017846, ENSBTAG000000014555, ENSBTAG000000017866, ENSBTAG000000011204, ENSBTAG000000020755, ENSBTAG000000047914, ENSBTAG000000008851, ENSBTAG00000004777, ENSBTAG000000019227, ENSBTAG000000010073, ENSBTAG000000073537, ENSBTAG000000015742, ENSBTAG000000014991, ENSBTAG000000050510, ENSBTAG000000021818, ENSBTAG000000014764, ENSBTAG000000011578, ENSBTAG000000010303, ENSBTAG000000015318, ENSBTAG000000011515, ENSBTAG000000014906, ENSBTAG000000009513, ENSBTAG000000007239, ENSBTAG00000001233, ENSBTAG000000045880, ENSBTAG00000002006, ENSBTAG000000035868, ENSBTAG000000039046,	785.0	294.0	16918.0	2345751549.0	0.0478864634102282	0.00783816710958802	0.0077848080357499

Go terms of over expressed genes												
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_BP_DIRECT	positive regulation of GTPase activity	19.0	2108768036.0	2.02E-05	ENSBTAG00000004608, ENSBTAG00000016566, ENSBTAG00000019432, ENSBTAG00000017753, ENSBTAG00000016208, ENSBTAG00000017846, ENSBTAG00000010971, ENSBTAG00000025250, ENSBTAG00000015938, ENSBTAG00000015609, ENSBTAG00000003334, ENSBTAG000000003289, ENSBTAG00000001483, ENSBTAG00000021672, ENSBTAG00000027446, ENSBTAG00000025257, ENSBTAG00000001941, ENSBTAG00000048980, ENSBTAG00000004305, ENSBTAG00000002647, ENSBTAG00000015147, ENSBTAG00000053578, ENSBTAG00000014178	785.0	126.0	16918.0	3249843292.0	0.0547090820201847	0.00783816710958802	0.0077848080357499
GOTERM_BP_DIRECT	positive regulation of ERK1 and ERK2 cascade	21.0	2330743618.0	2.45E-05	ENSBTAG00000006240, ENSBTAG00000017866, ENSBTAG00000011578, ENSBTAG00000011446, ENSBTAG00000020704, ENSBTAG00000016618, ENSBTAG00000025250, ENSBTAG00000022799, ENSBTAG00000004037, ENSBTAG00000003289, ENSBTAG00000020872, ENSBTAG00000000078, ENSBTAG00000006572, ENSBTAG00000025257, ENSBTAG00000005958, ENSBTAG00000048980, ENSBTAG00000018223, ENSBTAG00000037735, ENSBTAG00000053578, ENSBTAG00000035587, ENSBTAG00000017753	785.0	152.0	16918.0	2977522628.0	0.0661350269945852	0.00783816710958802	0.0077848080357499
GOTERM_BP_DIRECT	cellular response to lipopolysaccharide	16.0	1775804661.0	2.60E-05	ENSBTAG00000017753, ENSBTAG00000011961, ENSBTAG00000019716, ENSBTAG00000010987, ENSBTAG00000009812, ENSBTAG00000004741, ENSBTAG00000005622, ENSBTAG00000001321, ENSBTAG00000014090, ENSBTAG00000027513, ENSBTAG00000024928, ENSBTAG00000015032, ENSBTAG00000018463, ENSBTAG00000012671, ENSBTAG00000037778, ENSBTAG00000027558, ENSBTAG00000010681	785.0	94.0	16918.0	3668356146.0	0.0700302448963344	0.00783816710958802	0.0077848080357499
GOTERM_BP_DIRECT	immune response	29.0	3218645949.0	2.81E-05	ENSBTAG00000011961, ENSBTAG00000017866, ENSBTAG00000019428, ENSBTAG00000001060, ENSBTAG00000021527, ENSBTAG00000020116, ENSBTAG00000025250, ENSBTAG00000006155, ENSBTAG00000001321, ENSBTAG00000000130, ENSBTAG00000000277, ENSBTAG00000002951, ENSBTAG000000046266, ENSBTAG00000048782, ENSBTAG00000003778, ENSBTAG00000019665, ENSBTAG00000012223, ENSBTAG00000006240, ENSBTAG00000010785, ENSBTAG00000019716, ENSBTAG00000001492, ENSBTAG00000026753, ENSBTAG00000006685, ENSBTAG00000002006, ENSBTAG00000016163, ENSBTAG00000013170, ENSBTAG00000001338, ENSBTAG00000031725, ENSBTAG00000015312	785.0	259.0	16918.0	2413112658.0	0.0754155224526061	0.00783816710958802	0.0077848080357499

KEGG pathways of under expressed genes

no patways with p < 0,01 were found

KEGG pathways of over expressed genes												
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
KEGG_PATHWAY	Viral protein interaction with cytokine and cytokine receptor	26.0	2885683.0	9.71E-13	ENSBTAG00000011961, ENSBTAG00000019428, ENSBTAG00000001060, ENSBTAG00000004211, ENSBTAG00000025250, ENSBTAG00000003289, ENSBTAG00000020892, ENSBTAG00000025257, ENSBTAG00000027513, ENSBTAG00000000277, ENSBTAG00000048980, ENSBTAG00000038042, ENSBTAG00000024928, ENSBTAG00000018474, ENSBTAG00000037778, ENSBTAG00000037558, ENSBTAG00000012223, ENSBTAG00000019716, ENSBTAG00000009812, ENSBTAG00000000283, ENSBTAG00000026753, ENSBTAG00000006685, ENSBTAG00000033748, ENSBTAG0000001338, ENSBTAG00000015312, ENSBTAG00000053578	441.0	95.0	9306.0	5775295.0	2.93E-10	2.93E-10	2.46E-10
					ENSBTAG00000011784, ENSBTAG00000011961, ENSBTAG00000019428, ENSBTAG0000001060, ENSBTAG00000025250, ENSBTAG0000003043, ENSBTAG00000008338, ENSBTAG00000021523, ENSBTAG00000015609, ENSBTAG00000003289, ENSBTAG00000025257, ENSBTAG00000003305, ENSBTAG00000027513, ENSBTAG00000031998, ENSBTAG00000048980, ENSBTAG00000038042, ENSBTAG00000037778, ENSBTAG00000037558, ENSBTAG00000054533, ENSBTAG00000014991, ENSBTAG00000031575, ENSBTAG00000017839, ENSBTAG00000019716, ENSBTAG00000009812, ENSBTAG00000026753, ENSBTAG00000048631, ENSBTAG00000005958, ENSBTAG00000000820, ENSBTAG00000001338, ENSBTAG00000005978, ENSBTAG000000018984, ENSBTAG00000016683, ENSBTAG00000053578, ENSBTAG00000019079, ENSBTAG000000035587, ENSBTAG00000016344							
					ENSBTAG00000016799, ENSBTAG00000017866, ENSBTAG00000018517, ENSBTAG000000004211, ENSBTAG00000006654, ENSBTAG00000025250, ENSBTAG00000020755, ENSBTAG00000004037, ENSBTAG00000020676, ENSBTAG00000008338, ENSBTAG00000021523, ENSBTAG00000007662, ENSBTAG00000003289, ENSBTAG0000001321, ENSBTAG00000003305, ENSBTAG00000027513, ENSBTAG00000000277, ENSBTAG000000051542, ENSBTAG00000037778, ENSBTAG00000037558, ENSBTAG00000031575, ENSBTAG00000006240, ENSBTAG00000010785, ENSBTAG00000010303, ENSBTAG000000051030, ENSBTAG00000010007, ENSBTAG00000019716, ENSBTAG00000001273, ENSBTAG000000004741, ENSBTAG00000006523, ENSBTAG00000008008, ENSBTAG00000047302, ENSBTAG00000006526, ENSBTAG00000018984, ENSBTAG00000031544, ENSBTAG00000016683, ENSBTAG00000015032, ENSBTAG00000019079							
					ENSBTAG00000013205, ENSBTAG00000011961, ENSBTAG00000019428, ENSBTAG0000001060, ENSBTAG00000009064, ENSBTAG00000004211, ENSBTAG00000025250, ENSBTAG00000003289, ENSBTAG00000001321, ENSBTAG00000000130, ENSBTAG00000020892, ENSBTAG00000025257, ENSBTAG00000027513, ENSBTAG00000000277, ENSBTAG000000031998, ENSBTAG00000048980, ENSBTAG00000038042, ENSBTAG00000019567, ENSBTAG00000024928, ENSBTAG00000018474, ENSBTAG00000037778, ENSBTAG00000037558, ENSBTAG00000019665, ENSBTAG00000013555, ENSBTAG00000012223, ENSBTAG00000010785, ENSBTAG00000005273, ENSBTAG00000019716, ENSBTAG00000048980, ENSBTAG00000009812, ENSBTAG00000000283, ENSBTAG00000004741, ENSBTAG00000026753, ENSBTAG00000006685, ENSBTAG00000006343, ENSBTAG00000006420, ENSBTAG00000033748, ENSBTAG00000016163, ENSBTAG00000001338, ENSBTAG00000031725, ENSBTAG00000019338, ENSBTAG00000015312, ENSBTAG00000053578							
					ENSBTAG00000012223, ENSBTAG00000006240, ENSBTAG00000005273, ENSBTAG00000010303, ENSBTAG00000019716, ENSBTAG00000003033,							
					ENSBTAG00000000000, ENSBTAG00							

Calcaterra F. et al. BAG XXXVI (2): July-December 2025.

Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR
KEGG_PATHWAY	Rheumatoid arthritis	19.0	2108768.0	2.02E-06	ENSBTAG000000004211, ENSBTAG000000047302, ENSBTAG00000001321, ENSBTAG00000025257, ENSBTAG000000005947, ENSBTAG000000027513, ENSBTAG000000006526, ENSBTAG00000000436, ENSBTAG00000016683, ENSBTAG00000015032, ENSBTAG000000015312, ENSBTAG000000037778, ENSBTAG0000000037558, ENSBTAG000000013860, ENSBTAG000000006240, ENSBTAG000000010303, ENSBTAG000000019716, ENSBTAG000000009812, ENSBTAG00000025250, ENSBTAG00000000283, ENSBTAG000000004037, ENSBTAG000000008008, ENSBTAG000000003289, ENSBTAG00000001321, ENSBTAG000000000130, ENSBTAG000000027513, ENSBTAG000000000277, ENSBTAG000000005339, ENSBTAG000000013170, ENSBTAG000000015100, ENSBTAG000000019218, ENSBTAG000000037778, ENSBTAG000000037558	441.0	106.0	9306.0	3782441.0	6.09E-04	1.02E-04	8.51E-05
					ENSBTAG000000023929, ENSBTAG00000005273, ENSBTAG000000054594, ENSBTAG000000010007, ENSBTAG000000009381, ENSBTAG000000004211, ENSBTAG000000000283, ENSBTAG00000002096, ENSBTAG000000007338, ENSBTAG00000004037, ENSBTAG000000010501, ENSBTAG00000001321, ENSBTAG000000007213, ENSBTAG00000004386, ENSBTAG000000003305, ENSBTAG000000053934, ENSBTAG000000006679, ENSBTAG00000002922, ENSBTAG00000018984, ENSBTAG00000016683, ENSBTAG000000039520							
					ENSBTAG000000010057, ENSBTAG00000008353, ENSBTAG000000021527, ENSBTAG00000002676, ENSBTAG000000005947, ENSBTAG000000021187, ENSBTAG000000038080, ENSBTAG000000006679, ENSBTAG000000018993, ENSBTAG000000013860, ENSBTAG000000011001, ENSBTAG000000014605, ENSBTAG000000019716, ENSBTAG000000010987, ENSBTAG000000003033, ENSBTAG000000004587, ENSBTAG000000004742, ENSBTAG000000006343, ENSBTAG000000001511, ENSBTAG000000006526, ENSBTAG000000031544, ENSBTAG00000015032, ENSBTAG000000013055, ENSBTAG000000053015, ENSBTAG0000000051972, ENSBTAG000000018488							
					ENSBTAG000000006240, ENSBTAG00000005273, ENSBTAG000000019716, ENSBTAG000000004741, ENSBTAG000000008338, ENSBTAG000000008008, ENSBTAG00000001321, ENSBTAG000000006343, ENSBTAG000000006685, ENSBTAG000000027513, ENSBTAG000000001945, ENSBTAG000000018984, ENSBTAG000000018255, ENSBTAG000000051132, ENSBTAG000000015032, ENSBTAG000000039037, ENSBTAG000000019079, ENSBTAG000000037778, ENSBTAG000000037558							
					ENSBTAG000000011765, ENSBTAG000000006654, ENSBTAG000000004037, ENSBTAG000000008338, ENSBTAG00000001321, ENSBTAG000000006550, ENSBTAG000000006572, ENSBTAG000000003326, ENSBTAG000000027513, ENSBTAG000000000277, ENSBTAG000000000436, ENSBTAG000000019123, ENSBTAG000000037778, ENSBTAG000000037558, ENSBTAG000000006240, ENSBTAG000000014324, ENSBTAG000000010007, ENSBTAG000000019716, ENSBTAG000000001273, ENSBTAG000000003876, ENSBTAG000000024852, ENSBTAG000000006526, ENSBTAG00000016683, ENSBTAG000000019079, ENSBTAG00000012442							
					ENSBTAG000000008353, ENSBTAG000000019428, ENSBTAG00000001060, ENSBTAG000000020116, ENSBTAG000000004211, ENSBTAG00000025250, ENSBTAG000000003043, ENSBTAG000000008338, ENSBTAG000000021523, ENSBTAG000000003289, ENSBTAG00000001321, ENSBTAG00000025257, ENSBTAG000000044023, ENSBTAG000000038042, ENSBTAG000000018474, ENSBTAG000000014972, ENSBTAG000000054533, ENSBTAG000000010785, ENSBTAG000000005273, ENSBTAG000000010007, ENSBTAG000000019716, ENSBTAG000000002163, ENSBTAG000000005958, ENSBTAG000000000820, ENSBTAG000000005339, ENSBTAG00000001338, ENSBTAG000000018984, ENSBTAG000000016683, ENSBTAG000000019079							
					ENSBTAG00000010057, ENSBTAG00000016799, ENSBTAG000000010785, ENSBTAG000000009064, ENSBTAG0000000049808, ENSBTAG00000007622, ENSBTAG000000003033, ENSBTAG000000004211, ENSBTAG000000004037, ENSBTAG000000038080, ENSBTAG000000006526, ENSBTAG000000018984, ENSBTAG000000031544, ENSBTAG000000015154, ENSBTAG000000017574, ENSBTAG000000016683, ENSBTAG000000013055, ENSBTAG000000053015, ENSBTAG000000012442, ENSBTAG000000013860, ENSBTAG000000006240, ENSBTAG000000010785, ENSBTAG000000010007, ENSBTAG000000019716, ENSBTAG000000004211, ENSBTAG000000025250, ENSBTAG000000004741, ENSBTAG000000004037, ENSBTAG000000008338, ENSBTAG000000008008, ENSBTAG000000003289, ENSBTAG00000001321, ENSBTAG000000006685, ENSBTAG000000024950, ENSBTAG000000018984, ENSBTAG000000016683, ENSBTAG000000014465, ENSBTAG000000019079							
					ENSBTAG000000027513, ENSBTAG000000003326, ENSBTAG000000006240, ENSBTAG000000010785, ENSBTAG000000010007, ENSBTAG000000019716, ENSBTAG000000004211, ENSBTAG000000025250, ENSBTAG000000004741, ENSBTAG000000004037, ENSBTAG000000008338, ENSBTAG000000008008, ENSBTAG000000003289, ENSBTAG00000001321, ENSBTAG000000037778, ENSBTAG000000037558, ENSBTAG000000010785, ENSBTAG000000010303, ENSBTAG000000000096, ENSBTAG000000000912, ENSBTAG000000000283, ENSBTAG000000004037, ENSBTAG000000020676, ENSBTAG00000001321, ENSBTAG000000027513, ENSBTAG00000000436, ENSBTAG000000018984, ENSBTAG000000016683, ENSBTAG000000024928, ENSBTAG000000037778, ENSBTAG0000000037558, ENSBTAG0000000051972, ENSBTAG000000008353, ENSBTAG000000019428, ENSBTAG000000020116, ENSBTAG000000004211, ENSBTAG000000003043, ENSBTAG000000004037, ENSBTAG000000021523, ENSBTAG000000015609, ENSBTAG000000027513, ENSBTAG000000044023, ENSBTAG000000037778, ENSBTAG000000037558, ENSBTAG000000054533, ENSBTAG0000000							

KEGG pathways of over expressed genes																								
Category	Term	Count	%	PValue	Genes	List Total	Pop Hits	Pop Total	Fold Enrichment	Bonferroni	Benjamini	FDR												
KEGG_PATHWAY	MAPK signaling pathway	29.0	3218646.0	4.35E-04	ENSBTAG00000010254, ENSBTAG00000013863,	441.0	300.0	9306.0	2039864.0	0.123148858799205	0.00729941375899898	0.00611507179147927												
					ENSBTAG00000013205, ENSBTAG000000044208,																			
					ENSBTAG00000021527, ENSBTAG00000004211,																			
					ENSBTAG00000020257, ENSBTAG00000004037,																			
					ENSBTAG000000021741, ENSBTAG00000001321,																			
					ENSBTAG000000020350, ENSBTAG00000018134,																			
					ENSBTAG000000010273, ENSBTAG00000054533,																			
					ENSBTAG000000013860, ENSBTAG00000010763,																			
					ENSBTAG000000010785, ENSBTAG00000005273,																			
					ENSBTAG000000010007, ENSBTAG00000003033,																			
					ENSBTAG000000000283, ENSBTAG00000004587,																			
					ENSBTAG000000001497, ENSBTAG00000000783,																			
					ENSBTAG000000005339, ENSBTAG00000000507,																			
					ENSBTAG000000031544, ENSBTAG00000015032,																			
					ENSBTAG000000003587																			
KEGG_PATHWAY	Fluid shear stress and atherosclerosis	18.0	199778.0	4.74E-04	ENSBTAG000000013863, ENSBTAG000000015127,	441.0	145.0	9306.0	2619564.0	0.133497445903259	0.00753980179379609	0.00631645646963712												
					ENSBTAG00000005273, ENSBTAG00000020747,																			
					ENSBTAG000000010303, ENSBTAG00000008096,																			
					ENSBTAG000000010007, ENSBTAG00000004211,																			
					ENSBTAG000000004037, ENSBTAG00000020676,																			
					ENSBTAG0000000001321, ENSBTAG000000006343,																			
					ENSBTAG000000006420, ENSBTAG00000003305,																			
					ENSBTAG000000005339, ENSBTAG00000018984,																			
					ENSBTAG0000000048591, ENSBTAG00000012066																			
					ENSBTAG000000002006, ENSBTAG00000006240,																			
					ENSBTAG000000000277, ENSBTAG00000017866,																			
					ENSBTAG000000010303, ENSBTAG00000019716,																			
					ENSBTAG000000020755, ENSBTAG00000008008,																			
					ENSBTAG000000012066, ENSBTAG00000001321,																			
					ENSBTAG000000006685																			
KEGG_PATHWAY	Malaria	11.0	1220866.0	5.19E-04	ENSBTAG000000013125, ENSBTAG00000015127,	441.0	61.0	9306.0	3805286.0	0.145165406789117	0.00784032818966689	0.00656822196021762												
					ENSBTAG000000006240, ENSBTAG00000008353,																			
					ENSBTAG000000010785, ENSBTAG00000011578,																			
					ENSBTAG000000017839, ENSBTAG00000011931,																			
					ENSBTAG000000010007, ENSBTAG00000021527,																			
					ENSBTAG00000000021766, ENSBTAG00000004741,																			
					ENSBTAG000000020676, ENSBTAG00000021523,																			
					ENSBTAG0000000008008, ENSBTAG00000001497,																			
					ENSBTAG0000000048631, ENSBTAG00000005947,																			
					ENSBTAG000000002006, ENSBTAG00000019155,																			
					ENSBTAG000000005339, ENSBTAG00000018984,																			
					ENSBTAG0000000031575																			
					KEGG_PATHWAY								Proteoglycans in cancer	22.0	2441731.0	6.39E-04	ENSBTAG000000013125, ENSBTAG00000015127,	441.0	204.0	9306.0	227571.0	0.175648892932906	0.00919509429374252	0.00770317502091674
																	ENSBTAG000000006240, ENSBTAG00000008353,							
																	ENSBTAG000000010785, ENSBTAG00000011578,							
ENSBTAG000000017839, ENSBTAG00000011931,																								
ENSBTAG000000010007, ENSBTAG00000021527,																								
ENSBTAG00000000021766, ENSBTAG00000004741,																								
ENSBTAG000000020676, ENSBTAG00000021523,																								
ENSBTAG0000000008008, ENSBTAG00000001497,																								
ENSBTAG0000000048631, ENSBTAG00000005947,																								
ENSBTAG000000002006, ENSBTAG00000019155,																								
ENSBTAG000000005339, ENSBTAG00000018984,																								
ENSBTAG0000000031575																								

Go terms of over expressed genes											
Category	Term	Count	List Total	Pop Hits	Pop Total	P-Value	Benjamini	Fold Enrichment	Bonferroni	FDR	
GOTERM_BP_DIRECT	inflammatory response	73.0	1235.0	331.0	22206.0	4.73E-24	1.87E-20	3.97	1.87E-20	1.82E-20	
GOTERM_CC_DIRECT	cytosol	322.0	1295.0	3634.0	23888.0	6.97E-21	4.27E-18	1.63	4.27E-18	3.92E-18	
GOTERM_CC_DIRECT	membrane	346.0	1295.0	4081.0	23888.0	1.85E-19	5.66E-17	1.56	1.13E-16	5.2E-17	
GOTERM_CC_DIRECT	cell surface	71.0	1295.0	477.0	23888.0	2.76E-14	5.64E-12	2.75	1.69E-11	5.18E-12	
GOTERM_CC_DIRECT	cytoplasm	404.0	1295.0	5387.0	23888.0	1.35E-13	2.07E-11	1.38	8.26E-11	1.9E-11	
GOTERM_CC_DIRECT	external side of plasma membrane	64.0	1295.0	434.0	23888.0	8.99E-13	1.1E-10	2.72	5.51E-10	1.01E-10	
GOTERM_CC_DIRECT	Golgi apparatus	93.0	1295.0	887.0	23888.0	1.56E-09	159.0	1.93	956.0	1.46E-07	
GOTERM_MF_DIRECT	protein homodimerization activity	75.0	1198.0	609.0	21591.0	1.73E-10	223.0	2.22	223.0	2.16E-07	
GOTERM_MF_DIRECT	identical protein binding	116.0	1198.0	1147.0	21591.0	3.67E-10	237.0	1.82	473.0	23.0	
GOTERM_CC_DIRECT	plasma membrane	465.0	1295.0	6860.0	23888.0	6.44E-09	564.0	1.25	395.0	5.18E-07	
GOTERM_BP_DIRECT	endocytosis	34.0	1235.0	172.0	22206.0	3.57E-10	705.0	3.55	141.0	6.89E-07	
GOTERM_CC_DIRECT	membrane raft	30.0	1295.0	161.0	23888.0	1.06E-08	81.0	3.44	648.0	7.44E-07	
GOTERM_MF_DIRECT	calcium ion binding	82.0	1198.0	743.0	21591.0	4.29E-09	184.0	1.99	552.0	179.0	
GOTERM_CC_DIRECT	late endosome	26.0	1295.0	134.0	23888.0	5.25E-08	338.0	3.58	322.0	31.0	
GOTERM_CC_DIRECT	extracellular space	137.0	1295.0	1587.0	23888.0	5.51E-08	338.0	1.59	338.0	31.0	
GOTERM_BP_DIRECT	positive regulation of phosphatidylinositol 3-kinase/protein kinase B signal transduction	31.0	1235.0	158.0	22206.0	2.9E-09	381.0	3.53	114.0	373.0	
GOTERM_BP_DIRECT	innate immune response	56.0	1235.0	436.0	22206.0	1.16E-08	851.0	2.31	46.0	831.0	
GOTERM_BP_DIRECT	immune response	54.0	1235.0	414.0	22206.0	1.3E-08	851.0	2.35	512.0	831.0	
GOTERM_BP_DIRECT	cell adhesion	54.0	1235.0	415.0	22206.0	1.41E-08	851.0	2.34	557.0	831.0	
GOTERM_BP_DIRECT	cytokine-mediated signaling pathway	24.0	1235.0	107.0	22206.0	1.77E-08	851.0	04.03	698.0	831.0	
GOTERM_BP_DIRECT	chemotaxis	21.0	1235.0	83.0	22206.0	1.93E-08	851.0	4.55	763.0	831.0	
GOTERM_BP_DIRECT	neutrophil chemotaxis	15.0	1235.0	41.0	22206.0	2.13E-08	851.0	6.58	841.0	831.0	
GOTERM_BP_DIRECT	positive regulation of type II interferon production	18.0	1235.0	61.0	22206.0	2.16E-08	851.0	5.31	851.0	831.0	
GOTERM_BP_DIRECT	positive regulation of cell migration	33.0	1235.0	192.0	22206.0	2.39E-08	858.0	03.09	944.0	839.0	
GOTERM_BP_DIRECT	positive regulation of canonical NF-kappaB signal transduction	32.0	1235.0	184.0	22206.0	3.05E-08	1.0	3.13	12.0	979.0	
GOTERM_CC_DIRECT	endoplasmic reticulum	83.0	1295.0	842.0	23888.0	1.92E-07	107.0	1.82	118.0	984.0	
GOTERM_MF_DIRECT	transmembrane signaling receptor activity	28.0	1198.0	147.0	21591.0	3.49E-08	112.0	3.43	45.0	109.0	
GOTERM_CC_DIRECT	lysosomal membrane	41.0	1295.0	307.0	23888.0	2.58E-07	132.0	2.46	158.0	121.0	
GOTERM_CC_DIRECT	protein-containing complex	45.0	1295.0	357.0	23888.0	3.25E-07	153.0	2.33	199.0	141.0	
GOTERM_BP_DIRECT	negative regulation of cell population proliferation	35.0	1235.0	221.0	22206.0	6.79E-08	206.0	2.85	268.0	201.0	
GOTERM_BP_DIRECT	positive regulation of interleukin-8 production	16.0	1235.0	52.0	22206.0	8.76E-08	247.0	5.53	346.0	241.0	
GOTERM_BP_DIRECT	positive regulation of interleukin-6 production	19.0	1235.0	76.0	22206.0	1.31E-07	344.0	4.50	515.0	336.0	
GOTERM_BP_DIRECT	protein localization to plasma membrane	26.0	1235.0	144.0	22206.0	3.59E-07	854.0	3.25	142.0	835.0	
GOTERM_BP_DIRECT	response to endoplasmic reticulum stress	18.0	1235.0	73.0	22206.0	3.77E-07	854.0	4.43	149.0	835.0	
GOTERM_BP_DIRECT	positive regulation of gene expression	44.0	1235.0	339.0	22206.0	3.89E-07	854.0	2.33	154.0	835.0	
GOTERM_BP_DIRECT	integrin-mediated signaling pathway	19.0	1235.0	82.0	22206.0	4.44E-07	923.0	4.17	175.0	902.0	

Go terms of over expressed genes

Category	Term	Count	List Total	Pop Hits	Pop Total	P-Value	Benjamini	Fold Enrichment	Bonferroni	FDR
GOTERM_CC_DIRECT	perinuclear region of cytoplasm	57.0	1295.0	538.0	23888.0	231.0	101.0	1.95	142.0	93.0
GOTERM_BP_DIRECT	regulation of cell shape	23.0	1235.0	119.0	22206.0	5.88E-07	116.0	3.48	232.0	113.0
GOTERM_MF_DIRECT	GTPase activator activity	37.0	1198.0	262.0	21591.0	4.75E-07	122.0	2.55	611.0	119.0
GOTERM_BP_DIRECT	intracellular signal transduction	47.0	1235.0	382.0	22206.0	6.94E-07	13.0	2.21	274.0	127.0
GOTERM_CC_DIRECT	endomembrane system	40.0	1295.0	327.0	23888.0	335.0	137.0	2.26	205.0	126.0
GOTERM_CC_DIRECT	focal adhesion	28.0	1295.0	189.0	23888.0	394.0	151.0	2.73	241.0	139.0
GOTERM_BP_DIRECT	cell migration	34.0	1235.0	235.0	22206.0	9.04E-07	162.0	2.60	356.0	158.0
GOTERM_CC_DIRECT	lysosome	35.0	1295.0	273.0	23888.0	544.0	196.0	2.36	333.0	18.0
GOTERM_CC_DIRECT	RNA polymerase II transcription regulator complex	19.0	1295.0	100.0	23888.0	638.0	217.0	3.50	39.0	2.0
GOTERM_BP_DIRECT	angiogenesis	30.0	1235.0	197.0	22206.0	155.0	266.0	2.74	61.0	26.0
GOTERM_BP_DIRECT	positive regulation of interleukin-1 beta production	13.0	1235.0	42.0	22206.0	192.0	31.0	5.57	755.0	303.0
GOTERM_BP_DIRECT	positive regulation of inflammatory response	17.0	1235.0	73.0	22206.0	196.0	31.0	4.19	772.0	303.0
GOTERM_CC_DIRECT	receptor complex	26.0	1295.0	176.0	23888.0	981.0	316.0	2.73	599.0	291.0
GOTERM_CC_DIRECT	melanosome	19.0	1295.0	104.0	23888.0	112.0	345.0	3.37	687.0	317.0
GOTERM_CC_DIRECT	intracellular membrane-bounded organelle	33.0	1295.0	259.0	23888.0	12.0	351.0	2.35	735.0	323.0
GOTERM_CC_DIRECT	phagocytic vesicle	14.0	1295.0	59.0	23888.0	128.0	356.0	4.38	78.0	327.0
GOTERM_BP_DIRECT	positive regulation of ERK1 and ERK2 cascade	24.0	1235.0	140.0	22206.0	279.0	424.0	03.08	11.0	414.0
GOTERM_CC_DIRECT	endoplasmic reticulum membrane	81.0	1295.0	918.0	23888.0	188.0	501.0	1.63	115.0	46.0
GOTERM_MF_DIRECT	phosphatidylserine binding	16.0	1198.0	66.0	21591.0	244.0	525.0	4.37	314.0	51.0
GOTERM_MF_DIRECT	integrin binding	23.0	1198.0	132.0	21591.0	344.0	633.0	3.14	442.0	615.0
GOTERM_CC_DIRECT	late endosome membrane	22.0	1295.0	143.0	23888.0	297.0	758.0	2.84	18.0	696.0
GOTERM_MF_DIRECT	carbohydrate binding	31.0	1198.0	221.0	21591.0	533.0	858.0	2.53	684.0	834.0
GOTERM_BP_DIRECT	negative regulation of canonical NF-kappaB signal transduction	15.0	1235.0	64.0	22206.0	871.0	127.0	4.21	338.0	124.0
GOTERM_BP_DIRECT	positive regulation of angiogenesis	19.0	1235.0	100.0	22206.0	901.0	127.0	3.42	349.0	124.0
GOTERM_CC_DIRECT	endosome membrane	24.0	1295.0	171.0	23888.0	527.0	128.0	2.59	318.0	118.0
GOTERM_CC_DIRECT	nucleoplasm	175.0	1295.0	2418.0	23888.0	545.0	128.0	1.34	328.0	118.0
GOTERM_BP_DIRECT	heterophilic cell-cell adhesion	12.0	1235.0	41.0	22206.0	101.0	137.0	5.26	39.0	134.0
GOTERM_BP_DIRECT	protein phosphorylation	46.0	1235.0	410.0	22206.0	109.0	139.0	02.02	42.0	136.0
GOTERM_BP_DIRECT	negative regulation of signal transduction	14.0	1235.0	57.0	22206.0	112.0	139.0	4.42	433.0	136.0
GOTERM_BP_DIRECT	positive regulation of tumor necrosis factor production	16.0	1235.0	74.0	22206.0	113.0	139.0	3.89	435.0	136.0
GOTERM_MF_DIRECT	receptor ligand activity	14.0	1198.0	57.0	21591.0	109.0	156.0	4.43	14.0	152.0
GOTERM_CC_DIRECT	endosome	28.0	1295.0	222.0	23888.0	739.0	168.0	2.33	443.0	154.0
GOTERM_BP_DIRECT	negative regulation of type II interferon production	9.0	1235.0	22.0	22206.0	141.0	169.0	7.36	542.0	165.0
GOTERM_CC_DIRECT	basolateral plasma membrane	32.0	1295.0	272.0	23888.0	777.0	17.0	2.17	465.0	156.0
GOTERM_MF_DIRECT	heparin binding	24.0	1198.0	156.0	21591.0	17.0	219.0	2.77	216.0	213.0
GOTERM_BP_DIRECT	cell differentiation	62.0	1235.0	633.0	22206.0	206.0	239.0	1.76	78.0	233.0
GOTERM_CC_DIRECT	apical plasma membrane	38.0	1295.0	357.0	23888.0	125.0	265.0	1.96	739.0	243.0
GOTERM_MF_DIRECT	chemokine activity	13.0	1198.0	53.0	21591.0	256.0	3.0	4.42	325.0	292.0
GOTERM_CC_DIRECT	stress fiber	14.0	1295.0	75.0	23888.0	179.0	365.0	3.44	104.0	335.0
GOTERM_BP_DIRECT	cellular response to lipopolysaccharide	18.0	1235.0	100.0	22206.0	343.0	387.0	3.24	127.0	378.0
GOTERM_BP_DIRECT	negative regulation of inflammatory response	17.0	1235.0	91.0	22206.0	378.0	403.0	3.36	139.0	394.0
GOTERM_BP_DIRECT	T cell receptor signaling pathway	17.0	1235.0	91.0	22206.0	378.0	403.0	3.36	139.0	394.0
GOTERM_BP_DIRECT	response to lipopolysaccharide	15.0	1235.0	73.0	22206.0	422.0	427.0	3.69	153.0	417.0
GOTERM_BP_DIRECT	regulation of inflammatory response	15.0	1235.0	73.0	22206.0	422.0	427.0	3.69	153.0	417.0
GOTERM_CC_DIRECT	lamellipodium	22.0	1295.0	165.0	23888.0	24.0	474.0	2.46	137.0	435.0
GOTERM_CC_DIRECT	endocytic vesicle	12.0	1295.0	59.0	23888.0	286.0	549.0	3.75	161.0	504.0
GOTERM_BP_DIRECT	positive regulation of erythrocyte differentiation	9.0	1235.0	26.0	22206.0	565.0	557.0	6.22	0.2	545.0
GOTERM_CC_DIRECT	actin filament	14.0	1295.0	80.0	23888.0	346.0	643.0	3.23	191.0	59.0
GOTERM_BP_DIRECT	signal transduction	62.0	1235.0	660.0	22206.0	7.0	674.0	1.69	241.0	658.0
GOTERM_MF_DIRECT	mitogen-activated protein kinase binding	8.0	1198.0	20.0	21591.0	647.0	695.0	7.21	0.08	675.0
GOTERM_CC_DIRECT	caveola	12.0	1295.0	61.0	23888.0	388.0	699.0	3.63	212.0	642.0
GOTERM_CC_DIRECT	autophagosome membrane	10.0	1295.0	43.0	23888.0	414.0	725.0	4.29	224.0	666.0
GOTERM_BP_DIRECT	receptor internalization	11.0	1235.0	42.0	22206.0	779.0	732.0	4.71	265.0	715.0
GOTERM_MF_DIRECT	calcium-dependent protein binding	14.0	1198.0	68.0	21591.0	793.0	787.0	3.71	971.0	764.0
GOTERM_BP_DIRECT	homeostasis of number of cells within a tissue	10.0	1235.0	35.0	22206.0	931.0	85.0	5.14	308.0	83.0
GOTERM_BP_DIRECT	adaptive immune response	31.0	1235.0	256.0	22206.0	947.0	85.0	2.18	312.0	83.0
GOTERM_MF_DIRECT	sialic acid binding	8.0	1198.0	21.0	21591.0	925.0	851.0	6.87	112.0	827.0
GOTERM_CC_DIRECT	phosphatidylinositol 3-kinase complex	7.0	1295.0	20.0	23888.0	502.0	854.0	6.46	265.0	784.0
GOTERM_BP_DIRECT	negative regulation of gene expression	27.0	1235.0	209.0	22206.0	103.0	901.0	2.32	333.0	88.0
GOTERM_BP_DIRECT	receptor-mediated endocytosis	12.0	1235.0	52.0	22206.0	11.0	941.0	4.15	351.0	92.0

Go terms of under expressed genes

Category	Term	Count	List Total	Pop Hits	Pop Total	P-Value	Benjamini	Fold Enrichment	Bonferroni	FDR
GOTERM_CC_DIRECT	nucleolus	36.0	248.0	792.0	23888.0	4.36E-13	1.2E-10	4.38	1.2E-10	1.15E-10
GOTERM_CC_DIRECT	nucleoplasm	58.0	248.0	2418.0	23888.0	2.07E-09	251.0	2.31	572.0	2.39E-07
GOTERM_CC_DIRECT	chromosome	18.0	248.0	265.0	23888.0	2.72E-09	251.0	6.54	752.0	2.39E-07
GOTERM_CC_DIRECT	cytosol	74.0	248.0	3634.0	23888.0	6.89E-09	475.0	1.96	19.0	4.53E-07
GOTERM_CC_DIRECT	nucleus	94.0	248.0	5561.0	23888.0	2.51E-07	138.0	1.63	692.0	132.0
GOTERM_BP_DIRECT	rRNA processing	11.0	236.0	120.0	22206.0	6.11E-07	554.0	8.63	555.0	553.0
GOTERM_MF_DIRECT	tRNA binding	9.0	226.0	81.0	21591.0	205.0	787.0	10.62	785.0	783.0
GOTERM_CC_DIRECT	mitochondrial matrix	13.0	248.0	292.0	23888.0	57.0	262.0	4.29	156.0	25.0
GOTERM_CC_DIRECT	mitochondrion	29.0	248.0	1251.0	23888.0	106.0	419.0	2.23	289.0	399.0

KEGG pathways of over expressed genes

Category	Term	Count	List Total	Pop Hits	Pop Total	P-Value	Benjamini	Fold Enrichment	Bonferroni	FDR
KEGG_PATHWAY	Chemokine signaling pathway	44.0	746.0	191.0	10604.0	4.49E-12	8.8E-10	3.27	1.5E-09	6.54E-10
KEGG_PATHWAY	Viral protein interaction with cytokine and cytokine receptor	30.0	746.0	95.0	10604.0	5.27E-12	8.8E-10	4.49	1.76E-09	6.54E-10
KEGG_PATHWAY	Efferocytosis	39.0	746.0	169.0	10604.0	8.4E-11	9.36E-09	3.28	2.81E-08	6.95E-09
KEGG_PATHWAY	Lipid and atherosclerosis	46.0	746.0	242.0	10604.0	1.21E-09	101.0	2.70	404.0	7.5E-08
KEGG_PATHWAY	Lysosome	32.0	746.0	141.0	10604.0	8.31E-09	555.0	3.23	278.0	4.12E-07
KEGG_PATHWAY	Cytokine-cytokine receptor interaction	54.0	746.0	340.0	10604.0	2.58E-08	144.0	2.26	863.0	107.0
KEGG_PATHWAY	Rheumatoid arthritis	25.0	746.0	104.0	10604.0	1.54E-07	735.0	3.42	514.0	546.0
KEGG_PATHWAY	Pathways in cancer	72.0	746.0	556.0	10604.0	4.62E-07	193.0	1.84	154.0	143.0
KEGG_PATHWAY	NF-kappa B signaling pathway	25.0	746.0	114.0	10604.0	9.34E-07	347.0	3.12	312.0	257.0
KEGG_PATHWAY	Yersinia infection	30.0	746.0	156.0	10604.0	111.0	372.0	2.73	372.0	276.0
KEGG_PATHWAY	TNF signaling pathway	27.0	746.0	134.0	10604.0	172.0	524.0	2.86	576.0	389.0
KEGG_PATHWAY	Cell adhesion molecules	31.0	746.0	171.0	10604.0	257.0	714.0	2.58	857.0	53.0
KEGG_PATHWAY	Human cytomegalovirus infection	39.0	746.0	252.0	10604.0	572.0	147.0	2.20	191.0	109.0
KEGG_PATHWAY	Hematopoietic cell lineage	23.0	746.0	110.0	10604.0	642.0	153.0	2.97	214.0	114.0
KEGG_PATHWAY	Chagas disease	24.0	746.0	121.0	10604.0	969.0	21.0	2.82	323.0	156.0
KEGG_PATHWAY	Transcriptional misregulation in cancer	33.0	746.0	201.0	10604.0	101.0	21.0	2.33	336.0	156.0
KEGG_PATHWAY	Platelet activation	24.0	746.0	123.0	10604.0	128.0	252.0	2.77	428.0	187.0
KEGG_PATHWAY	Phospholipase D signaling pathway	27.0	746.0	154.0	10604.0	239.0	443.0	2.49	795.0	329.0
KEGG_PATHWAY	Kaposi sarcoma-associated herpesvirus infection	34.0	746.0	221.0	10604.0	287.0	505.0	2.19	955.0	375.0
KEGG_PATHWAY	C-type lectin receptor signaling pathway	21.0	746.0	106.0	10604.0	408.0	681.0	2.82	135.0	505.0
KEGG_PATHWAY	MAPK signaling pathway	41.0	746.0	300.0	10604.0	615.0	978.0	1.94	203.0	726.0
KEGG_PATHWAY	Phagosome	27.0	746.0	166.0	10604.0	89.0	134.0	2.31	293.0	994.0
KEGG_PATHWAY	IgSF CAM signaling	42.0	746.0	316.0	10604.0	922.0	134.0	1.89	303.0	994.0
KEGG_PATHWAY	Malaria	14.0	746.0	58.0	10604.0	15.0	209.0	3.43	489.0	155.0
KEGG_PATHWAY	Leukocyte transendothelial migration	21.0	746.0	118.0	10604.0	192.0	257.0	2.53	622.0	191.0
KEGG_PATHWAY	PI3K-Akt signaling pathway	48.0	746.0	392.0	10604.0	2.0	257.0	1.74	645.0	191.0
KEGG_PATHWAY	Amoebiasis	21.0	746.0	119.0	10604.0	216.0	268.0	2.51	697.0	199.0
KEGG_PATHWAY	NOD-like receptor signaling pathway	30.0	746.0	206.0	10604.0	247.0	294.0	02.07	791.0	218.0
KEGG_PATHWAY	Apoptosis	24.0	746.0	149.0	10604.0	278.0	32.0	2.29	886.0	238.0
KEGG_PATHWAY	Tuberculosis	30.0	746.0	210.0	10604.0	343.0	371.0	02.03	108.0	276.0
KEGG_PATHWAY	Th17 cell differentiation	20.0	746.0	114.0	10604.0	345.0	371.0	2.49	109.0	276.0
KEGG_PATHWAY	Osteoclast differentiation	24.0	746.0	152.0	10604.0	373.0	39.0	2.24	117.0	289.0
KEGG_PATHWAY	Ferroptosis	12.0	746.0	49.0	10604.0	472.0	478.0	3.48	146.0	355.0
KEGG_PATHWAY	Proteoglycans in cancer	29.0	746.0	205.0	10604.0	516.0	493.0	02.01	158.0	366.0
KEGG_PATHWAY	EGFR tyrosine kinase inhibitor resistance	16.0	746.0	82.0	10604.0	516.0	493.0	2.77	158.0	366.0
KEGG_PATHWAY	T cell receptor signaling pathway	21.0	746.0	128.0	10604.0	58.0	528.0	2.33	176.0	392.0
KEGG_PATHWAY	Legionellosis	13.0	746.0	58.0	10604.0	585.0	528.0	3.19	178.0	392.0
KEGG_PATHWAY	African trypanosomiasis	11.0	746.0	43.0	10604.0	63.0	554.0	3.64	0.19	411.0
KEGG_PATHWAY	Alcoholic liver disease	24.0	746.0	158.0	10604.0	653.0	56.0	2.16	196.0	415.0
KEGG_PATHWAY	IL-17 signaling pathway	18.0	746.0	102.0	10604.0	694.0	58.0	2.51	207.0	431.0
KEGG_PATHWAY	Natural killer cell mediated cytotoxicity	24.0	746.0	160.0	10604.0	781.0	636.0	2.13	0.23	472.0
KEGG_PATHWAY	Inflammatory bowel disease	14.0	746.0	69.0	10604.0	898.0	714.0	2.88	259.0	53.0
KEGG_PATHWAY	Autophagy - animal	25.0	746.0	173.0	10604.0	101.0	786.0	02.05	287.0	584.0
KEGG_PATHWAY	Rap1 signaling pathway	29.0	746.0	216.0	10604.0	118.0	88.0	1.91	326.0	653.0
KEGG_PATHWAY	Fc epsilon RI signaling pathway	14.0	746.0	71.0	10604.0	119.0	88.0	2.80	327.0	653.0
KEGG_PATHWAY	Fc gamma R-mediated phagocytosis	17.0	746.0	98.0	10604.0	124.0	9.0	2.47	339.0	668.0
KEGG_PATHWAY	Toxoplasmosis	19.0	746.0	117.0	10604.0	129.0	915.0	2.31	0.35	679.0
KEGG pathways of under expressed genes no pathways with p < 0,01 were found										

Supplementary Table S6. Overexpressed transcription factors (TFs) and transcription cofactors (TCF) identified from the differentially expressed genes using Animal Transcription Factor Database (AnimalTFDB) annotation, including gene expression statistics from the differential expression analysis.

Over expressed transcription cofactors									
ENSEMBLE GENE ID	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj	Type	TF Family	Symbol
ENSBTAG00000004269	1,195,716,474	2,698,856,983	0.4854178918	5,559,863,015	2.7e-08	3.78e-05	Others	Transcription_Cofactors	SGK1
ENSBTAG000000023179	1,153,463,384	2,461,715,974	0.4882524971	5,041,891,211	4.61e-07	0.0001501957483	Others	Transcription_Cofactors	TRIB1
ENSBTAG000000010987	2,656,847,097	2,437,850,403	0.5051331981	4,826,153,602	1.39e-06	0.0002923960266	NFKB associated	Transcription_Cofactors	NFKBIZ
ENSBTAG00000001273	2,634,310,825	23,117,659	0.4901548403	4,716,399,207	2.4e-06	0.0003822060755	Others	Transcription_Cofactors	NLRP3
ENSBTAG000000012052	1,010,949,574	3,148,019,488	0.6754902021	4,660,348,112	3.16e-06	0.0004559714364	Others	Transcription_Cofactors	PADI4
ENSBTAG000000048062	1,111,162,763	2,037,406,619	0.4548139202	4,479,648,773	7.48e-06	0.0006869626471	Lysine demethylase	Transcription_Cofactors	KDM6B
ENSBTAG000000048565	1,491,556,126	1,901,961,889	0.4319972424	4,402,715,806	1.07e-05	0.0006869626471	Others	Transcription_Cofactors	BASP1
ENSBTAG000000012640	188,132,717	4,617,457,214	1.060,017,184	4,356,021,096	1.32e-05	0.0008836805553	Others	Transcription_Cofactors	S100A8
ENSBTAG000000012720	2,520,436,447	2,448,225,136	0.5721497358	4,278,993,737	1.88e-05	0.00105217087	Ankyrin repeat	Transcription_Cofactors	ANKRD2
ENSBTAG00000007300	2,655,299,099	2,073,281,597	0.501855718	4,131,230,397	3.61e-05	0.001531982727	FHL	Transcription_Cofactors	FHL3
ENSBTAG00000007214	536,768,084	1,935,797,316	0.4694615925	4,123,441,293	3.73e-05	0.001551826865	GTF	Transcription_Cofactors	ELL2
ENSBTAG00000003495	2,201,902,875	0.701618973	0.1715826928	4,089,101,071	4.33e-05	0.001684088873	Lysine demethylase	Transcription_Cofactors	KDM7A
ENSBTAG000000015711	4,334,587,159	1,821,772,617	0.4465865912	4,079,326,726	4.52e-05	0.001738531086	Others	Transcription_Cofactors	BTG2
ENSBTAG000000016683	5,984,488,161	1,794,875,381	0.4423532134	4,057,561,529	4.96e-05	0.001842901967	NFKB associated	Transcription_Cofactors	NFKBIA
ENSBTAG00000004475	1,933,716,262	1,705,479,971	0.4269555503	3,994,514,112	6.48e-05	0.002178158135	Cyclin	Transcription_Cofactors	CDK5R1
ENSBTAG00000003587	5,007,338,402	0.9342719597	0.2345785267	3,982,768,468	6.81e-05	0.00222988041	GTF	Transcription_Cofactors	ELL
ENSBTAG000000018819	1,309,740,574	220,590,599	0.5614251314	3,929,118,713	8.53e-05	0.002574453153	Others	Transcription_Cofactors	TENM1
ENSBTAG00000007208	3,974,800,572	2,116,858,098	0.5434676717	3,895,094,792	9.82e-05	0.002835720485	Histone deacetylase	Transcription_Cofactors	HDAC11
ENSBTAG000000011182	6,050,299,032	1,946,344,815	0.5054229628	3,850,922,809	0.0001176735871	0.003152437149	Others	Transcription_Cofactors	ANKRD2
ENSBTAG000000019202	6,267,971,507	1,442,042,303	0.3756736646	3,838,550,422	0.000123762802	0.003237589703	Others	Transcription_Cofactors	EAF1
ENSBTAG00000000746	9,752,235,908	1,990,557,592	0.5278504122	3,771,063,821	0.0001625530896	0.003795885564	Lysine acetyltransferase	Transcription_Cofactors	KAT2B
ENSBTAG000000008931	927,368,773	1,791,431,153	0.4809392054	3,724,859,883	0.0003688624971	0.004278488587	Others	Transcription_Cofactors	CREG1
ENSBTAG000000016799	9,854,759,311	1,028,368,527	0.2765060071	3,719,154,377	0.0001998908601	0.004383139297	Others	Transcription_Cofactors	ERN1
ENSBTAG000000004150	9,490,411,265	1,967,122,646	0.5310866777	3,703,957,807	0.0002122615788	0.004506056031	Others	Transcription_Cofactors	NRG1
ENSBTAG000000018255	8,070,371,045	2,286,464,316	0.6174481445	3,703,087,192	0.0002129916371	0.004510681042	Actin	Transcription_Cofactors	ACTN1
ENSBTAG000000012060	4,338,329,551	1,180,176,456	0.329875267	3,577,644,565	0.0003467044714	0.006111281429	LPIN	Transcription_Cofactors	LPIN2
ENSBTAG000000006175	4,162,070,754	1,572,682,539	0.4415893246	3,561,414,309	0.0003688624971	0.006325743509	Lysine demethylase	Transcription_Cofactors	KDM5B
ENSBTAG000000035587	1,507,364,227	1,597,994,863	0.4489828443	3,559,144,594	0.000372064658	0.006364709379	Others	Transcription_Cofactors	ARRB2
ENSBTAG000000000105	4,238,107,419	1,599,955,241	0.4476459453	3,551,010,029	0.0003837557935	0.006460896566	Others	Transcription_Cofactors	ANXA4
ENSBTAG000000020312	4,656,353,384	0.7500599458	0.2143809319	3,498,725,093	0.0004674883072	0.007430845754	Nuclear receptor coactivator	Transcription_Cofactors	NCOA2
ENSBTAG000000000696	1,171,223,395	1,150,662,861	0.3330199917	3,452,523,659	0.0005498101332	0.008274317697	Others	Transcription_Cofactors	ILK
ENSBTAG0000000012671	223,248,245	1,009,191,219	0.2937233502	3,435,856,284	0.0005906842222	0.00858006098	Others	Transcription_Cofactors	TNIP1
ENSBTAG000000022799	1,807,834,826	0.5875963466	0.1721370856	3,413,537,207	0.0006412540172	0.009047945655	Notch	Transcription_Cofactors	NOTCH1
ENSBTAG000000007118	1,657,959,362	1,016,086,226	0.300430138	3,382,104,849	0.0007193268377	0.009775449393	Others	Transcription_Cofactors	SMURF1

Under expressed transcription cofactors									
ENSEMBLE GENE ID	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj	Type	TF Family	Symbol
ENSBTAG000000014734	2,940,718,698	-0.5024122408	0.1281391163	-3,920,834,287	8.82e-05	0.002619431599	CHD	Transcription_Cofactors	CHD4
ENSBTAG000000009500	5,645,554,184	-0.8092600872	0.2171035516	-3,727,530,394	0.0001933652478	0.004257878922	Lysine demethylase	Transcription_Cofactors	KDM1A
ENSBTAG000000003552	2,768,609,946	-0.6097964156	0.1658968456	-3,675,756,542	0.0002371455965	0.00480846158	Mediator complex	Transcription_Cofactors	MED17
ENSBTAG000000010013	5,382,777,481	-0.578227376	0.158716849	-3,643,137,708	0.0002693346492	0.005212220677	Others	Transcription_Cofactors	DNAI3
ENSBTAG000000006103	737,077,371	-0.9100579452	0.2598765295	-3,501,885,864	0.0004619774766	0.007380577451	Others	Transcription_Cofactors	XRCC6
ENSBTAG000000016848	1,483,197,161	-0.5377313669	0.1592531082	-3,376,583,182	0.0007339217655	0.0090909720767	GTF	Transcription_Cofactors	GTF2E1

Over expressed transcription factors									
ENSEMBLE GENE ID	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj	Type	TF Family	Symbol
ENSBTAG0000000001511	1,264,520,342	3,348,098,214	0.6538344236	5,120,712,665	3.04e-07	0.0001184642254	ZBTB	Transcription_Factors	BCL6
ENSBTAG000000016060	4,426,064,556	1,899,857,301	0.3777345994	5,029,608,893	4.91e-07	0.0001565032887	TF_bZIP	Transcription_Factors	CREM
ENSBTAG000000020654	1,238,135,208	178,835,301	0.3606799077	4,958,282,874	7.11e-07	0.0001903054307	MBD	Transcription_Factors	BAZZ2B
ENSBTAG0000000001562	1,793,758,712	2,889,542,993	0.5971584319	4,838,821,389	1.31e-06	0.0002889542377	TF_bZIP	Transcription_Factors	NFE2
ENSBTAG000000017661	5,536,197,394	2,433,007,481	0.5114884587	4,756,720,194	1.97e-06	0.0003534429167	RFX	Transcription_Factors	RFX2
ENSBTAG0000000001042	8,709,861,128	303,135,916	0.6537379401	4,636,963,796	3.54e-06	0.0004829409174	bHLH	Transcription_Factors	MXD1
ENSBTAG0000000051972	9,811,875,429	1,723,562,509	0.3841971193	4,486,141,157	7.25e-06	0.0006869626471	TF_bZIP	Transcription_Factors	CEBPB
ENSBTAG000000014248	1,116,397,962	1,268,757,848	0.2867376754	4,424,803,424	9.65e-06	0.0007520545317	MYB	Transcription_Factors	MIER3
ENSBTAG000000004742	1,354,124,764	1,099,553,226	0.2485757277	4,423,413,484	9.72e-06	0.0007520545317	Runt	Transcription_Factors	RUNX1
ENSBTAG0000000021187	9,813,459,435	1,374,490,447	0.3146444715	4,368,392,175	1.25e-05	0.0008638822727	bHLH	Transcription_Factors	ID2
ENSBTAG000000009658	1,630,474,506	2,215,752,554	0.5124720513	4,323,655,404	1.53e-05	0.0009642140571	Others	Transcription_Factors	PLEK
ENSBTAG0000000021574	1,106,194,132	211,671,453	0.498991464	4,320,782,634	1.55e-05	0.0009681711337	HMG	Transcription_Factors	TCF7L2
ENSBTAG0000000006990	1,979,121,187	3,647,680,481	0.8574901387	4,253,903,709	2.1e-05	0.001158807152	NDT80_PhoG	Transcription_Factors	MYRF
ENSBTAG000000005029	4,968,492,286	1,482,638,324	0.352894509	4,201,364,108	2.65e-05	0.001284958892	bHLH	Transcription_Factors	TAL1
ENSBTAG0000000000040	292,342,747	0.9484635721	0.2264761043	4,187,918,965	2.82e-05	0.001314214999	TF_bZIP	Transcription_Factors	MAFG
ENSBTAG00000000014090	7,846,046,849	1,433,803,382	0.3435429397	4,173,578,368	3e-05	0.001377453349	ARID	Transcription_Factors	ARID5A
ENSBTAG000000009975	250,585,113	2,905,228,398	0.7062241246	4,113,374,845	3.89e-05	0.001585546811	Homeobox	Transcription_Factors	PBX4
ENSBTAG0000000000507	2,579,690,369	1,304,892,123	0.318031144	4,103,303,251	4.08e-05	0.001623086482	NGFIB-like	Transcription_Factors	NR4A1
ENSBTAG0000000045877	5,397,818,954	1,014,505,052	0.2490421579	4,073,627,776	4.63e-05	0.001757504833	TSC22	Transcription_Factors	TSC22D3
ENSBTAG000000011001	2,857,233,437	2,555,634,587	0.6317763293	4,045,157,231	5.23e-05	0.001912813137	ETS	Transcription_Factors	ERG
ENSBTAG000000014705	2,243,529,971	1,898,207,765	0.4744638207	4,000,742,907	6.31e-05	0.002157828366	bHLH	Transcription_Factors	HES4
ENSBTAG0000000006679	1,592,325,338	1,932,114,721	0.4834576128	3,996,451,127	6.43e-05	0.002176075784	bHLH	Transcription_Factors	MTF
ENSBTAG000000005564	4,275,318,408	0.8170495137	0.2047442244	3,990,586,382	6.59e-05	0.002193275376	zf-MIZ	Transcription_Factors	PIAS1
ENSBTAG000000023929	4,651,032,795	1,830,166,974	0.4601496093	3,977,330,279	6.97e-05	0.00224976467	TF_bZIP	Transcription_Factors	FOSL2
ENSBTAG000000008649	1,592,325,338	1,069,955,381	0.2705628753	3,954,553,559	7.67e-05	0.002392719768	ETS	Transcription_Factors	ETV3
ENSBTAG0000000031682	3,294,365,161	201,674,264	0.5120528296	3,938,544,079	8.2e-05	0.002497355239	zf-C2H2	Transcription_Factors	ZNF484
ENSBTAG0000000017694	2,645,659,717	0.9383205076	0.2383498034	3,936,737,074	8.26e-05	0.002504906548	zf-GATA	Transcription_Factors	TRPS1
ENSBTAG000000014560	1,243,700,832	1,777,639,332	0.4566232421	3,892,933,633	9e-05	0.002849361355	Homeobox	Transcription_Factors	HLX
ENSBTAG0000000015188	303,245,287	1,604,795,138	0.4178322531	3,840,764,149	0.0001226519132	0.003229419862	zf-C2H2	Transcription_Factors	KLF6
ENSBTAG0000000005622	1,611,523,812	1,663,709,847	0.4373704738	3,803,891,545	0.0001424405629	0.003513617478	zf-LITAF-like	Transcription_Factors	LITAF
ENSBTAG0000000051333	742,448,022	1,082,659,911	0.2848952242	380,020,379	0.0001445771421	0.003541196497	ARID	Transcription_Factors	ARID5B
ENSBTAG0000000004139	3,861,410,565	1,310,680,209	0.3462291734	3,785,585,705	0.0001533469771	0.003685324892	TF_bZIP	Transcription_Factors	BACH1
ENSBTAG0000000017365	4,683,293,027	1,584,753,811	0.4192041419	3,780,386,816	0.0001565848915	0.0037374973	ZBTB	Transcription_Factors	ZBTB47
ENSBTAG000000009214	3,092,611,916	2,569,417,798	0.6847859266	3,752,147,494	0.0001753262591	0.00399430279	ETS	Transcription_Factors	ETS2

Over expressed transcription factors									
ENSEMBLE GENE ID	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj	Type	TF Family	Symbol
ENSBTAG00000004189	1,596,519,326	0.7727164164	0.2081895267	3,711,600,813	0.0002059526102	0.004412235506	bHLH	Transcription_Factors	MLXIP
ENSBTAG00000004037	4,583,831,633	1,479,182,822	0.3999341728	3,698,565,721	0.0002168212122	0.0045751235	TF_bZIP	Transcription_Factors	JUN
ENSBTAG00000000816	4,648,081,056	1,692,698,542	0.4586647523	3,690,491,874	0.0002238208387	0.004679736784	zf-C2H2	Transcription_Factors	PRDM1
ENSBTAG00000016414	851,328,774	2,788,505,083	0.7691792867	3,625,299,239	0.0002886270466	0.005428125571	THR-like	Transcription_Factors	VDR
ENSBTAG00000011957	5,285,778,824	1,068,310,666	0.2958738353	3,610,696,649	0.0003053756641	0.005629761092	Others	Transcription_Factors	CREBL2
ENSBTAG00000014396	1,097,933,687	1,158,092,058	0.3213245364	3,604,119,595	0.0003132128183	0.005729014095	zf-C2H2	Transcription_Factors	KLF10
ENSBTAG00000018488	3,782,974,836	0.8405741143	0.2343850932	3,586,295,113	0.0003354093658	0.006009489289	AF-4	Transcription_Factors	AFF1
ENSBTAG00000010681	3,043,514,912	131,133,927	0.366541415	3,577,601,919	0.0003467610261	0.006111281429	THR-like	Transcription_Factors	NR1H3
ENSBTAG00000014636	6,027,600,103	2,168,807,558	0.6098621296	3,556,225,993	0.0003762204787	0.006389363791	Homeobox	Transcription_Factors	ZFHX3
ENSBTAG00000003396	1,611,587,613	1,488,327,225	0.4219937353	3,526,894,123	0.0004204648647	0.006874134445	TF_bZIP	Transcription_Factors	MAFB
ENSBTAG000000031544	2,738,713,361	0.6272216569	0.1810080746	3,465,158,437	0.0005299191879	0.008055566322	TF_bZIP	Transcription_Factors	DDIT3
ENSBTAG00000015904	9,688,171,808	1,464,317,273	0.4241247794	3,452,562,416	0.0005528889935	0.008316047145	THR-like	Transcription_Factors	RORA
ENSBTAG00000010659	8,595,560,094	0.7654750295	0.2222693712	3,443,906,937	0.000573373024	0.008460600144	CUT	Transcription_Factors	CUX1
ENSBTAG00000009863	1,185,969,547	1,130,204,397	0.3298944989	3,425,957,088	0.0006126371627	0.008803753114	bHLH	Transcription_Factors	BHLHE40
ENSBTAG00000006222	2,184,318,199	1,411,398,665	0.4133088756	3,414,876,254	0.000638109945	0.00903086711	E2F	Transcription_Factors	TFDP2
ENSBTAG00000010046	493,818,822	0.9894083516	0.2899072073	3,412,844,961	0.0006428850507	0.009056999334	zf-C2H2	Transcription_Factors	ZNF350
ENSBTAG00000014605	7,299,953,921	0.8988595413	0.2642432083	3,401,637,253	0.0006698348327	0.009292134496	ETS	Transcription_Factors	ETV6
ENSBTAG00000046307	2,110,124,784	1,802,242,802	0.5313191958	3,392,015,226	0.0006938058448	0.009539660149	TF_bZIP	Transcription_Factors	CEBPD
ENSBTAG00000005443	3,283,778,745	0.782912454	0.2308931325	3,390,800,088	0.0006968891424	0.009571016155	MYB	Transcription_Factors	MIER1
ENSBTAG000000021523	1,591,365,095	1,273,085,293	0.377400924	3,373,296,704	0.0007427387075	0.009977001652	STAT	Transcription_Factors	STAT3

Under expressed transcription factors									
ENSEMBLE GENE ID	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj	Type	TF Family	Symbol
ENSBTAG000000038241	1,410,032,153	-1,038,546,133	0.2201574668	-4,717,287,802	2.39e-06	0.0003822060755	zf-C2H2	Transcription_Factors	REPIN1
ENSBTAG000000000753	5,561,243,082	-0.6273376938	0.1445014697	-4,341,393,171	1.42e-05	0.0009188660177	zf-MIZ	Transcription_Factors	PIAS4
ENSBTAG000000053568	1,068,841,912	-0.9500222982	0.2237729749	-4,245,473,782	2.18e-05	0.00116181569	zf-C2H2	Transcription_Factors	ZNF70
ENSBTAG000000005916	3,105,695,931	-0.7250723156	0.1778759489	-4,076,280,802	4.58e-05	0.001742304126	Homeobox	Transcription_Factors	ADNP2
ENSBTAG000000046481	2,877,319,577	-0.4722886861	0.1178509125	-4,007,509,794	6.14e-05	0.002122833166	zf-C2H2	Transcription_Factors	ZNF740
ENSBTAG000000030744	2,009,126,603	-0.8068911758	0.2030647971	-3,973,565,025	7.08e-05	0.002259786524	NF-YB	Transcription_Factors	NFYB
ENSBTAG000000030939	8,424,248,963	-1,302,927,362	0.3514313296	-3,707,487,785	0.0002093255103	0.004457233625	zf-C2H2	Transcription_Factors	ZNF575
ENSBTAG00000016580	182,511,084	-0.96305535	0.2683344915	-3,589,010,658	0.000331935272	0.005959316873	TF_bZIP	Transcription_Factors	TEF
ENSBTAG00000014697	2,002,001,025	-0.4892935128	0.1366892697	-357,960,441	0.0003441147389	0.006110762494	MYB	Transcription_Factors	SMARCC2
ENSBTAG000000051830	6,365,437,364	-0.8888014091	0.2483388218	-3,578,986,977	0.0003449286537	0.006111281429	ZBTB	Transcription_Factors	ZBTB45
ENSBTAG000000011136	1,611,339,952	-1,130,775,912	0.3227450549	-3,503,619,638	0.0004589804304	0.007368664884	RXR-like	Transcription_Factors	NR2F6
ENSBTAG000000007617	4,354,863,447	-0.5864567309	0.1676191233	-3,498,745,963	0.0004674517203	0.007430845754	MYB	Transcription_Factors	TERF2
ENSBTAG000000018938	9,198,536,222	-1,089,170,025	0.311956501	-349,141,634	0.0004804669084	0.007580880465	zf-LITAF-like	Transcription_Factors	CDIP1
ENSBTAG000000007761	525,758,968	-0.7605544508	0.221362077	-3,435,793,796	0.0005908204717	0.008580006098	ZBTB	Transcription_Factors	ZBTB5
ENSBTAG000000022450	2,005,122,714	-1,129,764,879	0.3345969763	-3,376,494,585	0.0007341581726	0.009909720767	THAP	Transcription_Factors	THAP9

Supplementary Table S7. Top enriched regulatory features identified by i-cisTarget analysis of the differentially expressed genes (DEGs), ranked by normalized enrichment score (NES).

#	Feature	NES	#	Feature	NES
1	ENCFF001XUL Description: H3K4me3 ChIP-seq on mouse C2C12 differentiated for 60 hours	9.06995	8	ENCFF001XVA Description: POL2 ChIP-seq on mouse C2C12 differentiated for 60 hours	5.99841
2	cisbp_M6170 Description: CEBPB[<i>gene ID</i> : "ENSG00000172216" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	6.55452	9	cisbp_M4556 Description: CEBPB[<i>gene ID</i> : "ENSG00000172216" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	5.97124
3	hocomoco_CEBPA_HUMAN.H11MO.0.A Description: CEBPA_HUMAN Possible TFs: Cebp	6.40118	10	ENCFF001XVZ Description: H3K27ac ChIP-seq on 8-week mouse BMDM	5.95323
4	hocomoco_CEBPB_MOUSE.H11MO.0.A Description: CEBPB_MOUSE Possible TFs: Cebp	6.32888	11	factorbook_CEBPB Description: CEBPB Possible TFs: Cebp	5.83384
5	cisbp_M4529 Description: CEBPB[<i>gene ID</i> : "ENSG00000172216" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	6.25221	12	ENCFF001YCA Description: PSU mouse Erythrobl H3K4me1 ChIP-seq	5.82267
6	hocomoco_CEBPA_MOUSE.H11MO.0.A Description: CEBPA_MOUSE Possible TFs: Cebp	6.23549	13	transfac_pro_M08910 Description: V\$CEBPB_08: C/EBPBETA Possible TFs: Cebp	5.77632
7	cisbp_M4606 Description: CEBPB[<i>gene ID</i> : "ENSG00000172216" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	6.13388	14	dbcorrb_CEBPD_ENCSR000BQJ_1_m1 Description: CEBPD (ENCSR000BQJ-1, motif 1) Possible TFs: Cebp	5.76999
			15	dbcorrb_CEBPB_ENCSR000EDA_1_m1 Description: CEBPB (ENCSR000EDA-1, motif 1) Possible TFs: Cebp	5.75045
			16	taipale_CEBPE_DBD_NTTRCGCAAY Description: CEBPE dimeric bZIP DBD Possible TFs: Cebp	5.62993

#	Feature	NES	#	Feature	NES
17	cisbp_M5317 Description: CEBPE[<i>gene ID: "ENSG00000092067"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	5.61915	36	dbcorrd_b_CEBPB_ENCSR000EEE_1_m1 Description: CEBPB (ENCSR000EEE-1, motif 1) Possible TFs: Cebp	5.33278
18	cisbp_M5314 Description: CEBPB[<i>gene ID: "ENSG00000172216"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	5.60555	37	cisbp_M5318 Description: CEBPG[<i>gene ID: "ENSG00000153879"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	5.31434
19	taipale_CEBPD_DBD_NTTRCGCAAY Description: CEBPD dimeric bZIP DBD Possible TFs: Cebp	5.57561	38	cisbp_M5315 Description: CEBPB[<i>gene ID: "ENSG00000172216"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	5.3084
20	hocomoco_CEBPB_HUMAN.H11MO.0.A Description: CEBPB_HUMAN Possible TFs: Cebp	5.55623	39	dbcorrd_b_CEBPB_ENCSR000EBV_1_m1 Description: CEBPB (ENCSR000EBV-1, motif 1) Possible TFs: Cebp	5.27299
21	dbcorrd_b_CEBPB_ENCSR000EEX_1_m1 Description: CEBPB (ENCSR000EEX-1, motif 1) Possible TFs: Cebp	5.55107	40	cisbp_M6169 Description: CEBPA[<i>gene ID: "ENSG00000245848"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	5.26588
22	cisbp_M5316 Description: CEBPD[<i>gene ID: "ENSG00000221869"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	5.54841	41	taipale_CEBPG_DBD_NTTRCGCAAY Description: CEBPG dimeric bZIP DBD Possible TFs: Cebp	5.25869
23	taipale_CEBPB_DBD_NTTRCGCAAY Description: CEBPB dimeric bZIP DBD Possible TFs: Cebp	5.5406	42	taipale_cyt_meth_CEBPD_NRTTGCGYAAYN_eDBD_meth Description: CEBPD [bZIP, CpG-meth] Possible TFs: Cebp	5.23032
24	cisbp_M0315 Description: Cebp[<i>gene ID: "ENSMUSG00000056501"</i> species: "Mus musculus" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	5.54036	43	taipale_cyt_meth_CEBPB_NRTTGCGYAAYN_eDBD Description: CEBPB [bZIP] Possible TFs: Cebp	5.22422
25	taipale_cyt_meth_CEBPG_NRTTGCGYAAYN_eDBD_meth Description: CEBPG [bZIP, CpG-meth] Possible TFs: Cebp	5.53802	44	taipale_cyt_meth_CEBPG_NRTTGCGYAAYN_eDBD Description: CEBPG [bZIP] Possible TFs: Cebp	5.20765
26	taipale_CEBPG_full_NTTRCGCAAY Description: CEBPG dimeric bZIP full Possible TFs: Cebp	5.52942	45	ENCFF001XUM Description: H3K4me3 ChIP-seq on mouse C2C12	5.20549
27	transfac_pro_M07689 Description: ISSLBO_02: C/EBP	5.51082	46	taipale_cyt_meth_CEBPE_NRTTGCGYAAYN_eDBD_meth_repr Description: CEBPE [bZIP, CpG-meth] Possible TFs: Cebp	5.13997
28	dbcorrd_b_CEBPB_ENCSR000BRQ_1_m1 Description: CEBPB (ENCSR000BRQ-1, motif 1) Possible TFs: Cebp	5.48042	47	dbcorrd_b_CEBPB_ENCSR000EHE_1_m1 Description: CEBPB (ENCSR000EHE-1, motif 1) Possible TFs: Cebp	5.08604
29	hocomoco_CEBPD_HUMAN.H11MO.0.C Description: CEBPD_HUMAN Possible TFs: Cebp	5.44243	48	taipale_cyt_meth_CEBPB_NRTTGCGYAAYN_eDBD_meth Description: CEBPB [bZIP, CpG-meth] Possible TFs: Cebp	5.08221
30	cisbp_M5319 Description: CEBPG[<i>gene ID: "ENSG00000153879"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	5.42696	49	homer_ATTGCGCAAC_CEBP Description: CEBP(bZIP)/ThioMac-CEBPb-ChIP-Seq(GSE21512)/Homer Possible TFs: Cebp	5.02242
31	cisbp_M5995 Description: Cebp[<i>gene ID: "ENSMUSG00000056501"</i> species: "Mus musculus" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	5.41735	50	dbcorrd_b_CEBPB_ENCSR000BQI_1_m1 Description: CEBPB (ENCSR000BQI-1, motif 1) Possible TFs: Cebp	5.00202
32	taipale_cyt_meth_CEBPD_NRTTGCGYAAYN_eDBD Description: CEBPD [bZIP] Possible TFs: Cebp	5.41438	51	ENCFF001XVX Description: H3K4me1 ChIP-seq on 8-week mouse BMDM	4.95734
33	taipale_CEBPB_full_NTTRCGCAAY Description: CEBPB dimeric bZIP full Possible TFs: Cebp	5.3921	52	taipale_cyt_meth_CEBPE_NRTTGCGYAAYN_eDBD Description: CEBPE [bZIP] Possible TFs: Cebp	4.95365
34	taipale_Cebp_DBD_NTTRCGCAAY_repr Description: Cebp dimeric bZIP DBD Possible TFs: Cebp	5.38546	53	transfac_pro_M07413 Description: V\$CEBPB_07: C/EBPbeta Possible TFs: Cebp	4.91191
35	transfac_pro_M07414 Description: V\$CEBPD_02: C/EBPdelta	5.36201	54	transfac_pro_M07412 Description: V\$CEBPA_04: C/EBPalpha Possible TFs: Cebp	4.90456
			55	ENCFF001YGK Description: PSU mouse Megakaryo GATA1 ChIP-seq	4.87434

#	Feature	NES	#	Feature	NES
56	ENCFF001YGI Description: PSU mouse Megakaryo GATA1 ChIP-seq	4.87409	77	hocomoco_SPI1_MOUSE.H11MO.0.A Description: SPI1_MOUSE Possible TFs: Spi1	4.464
57	dbcorrdB_CEBPB_ENC000DYI_1_m1 Description: CEBPB (ENC000DYI-1, motif 1) Possible TFs: Cebp	4.85493	78	homer_AGAGGAAGTG_PU.1 Description: PU.1(ETS)/ThioMac-PU.1-ChIP-Seq(GSE21512)/Homer Possible TFs: Spi1	4.4611
58	dbcorrdB_EP300_ENC000EDV_1_m3 Description: EP300 (ENC000EDV-1, motif 3) Possible TFs: Ep300	4.82664	79	dbcorrdB_JUN_ENC000EZC_1_m1 Description: JUN (ENC000EZC-1, motif 1) Possible TFs: Jun	4.45305
59	transfac_pro_M01772 Description: V\$CEBPE_01: cebpe	4.81406	80	transfac_pro_M02278 Description: V\$SPI1_04: SPI1 Possible TFs: Spi1	4.42758
60	ENCFF001XXS Description: H3K4me1 ChIP-seq on 14.5 day embryonic mouse liver	4.79946	81	transfac_pro_M07315 Description: V\$CEBPB_Q3: C/EBPbeta Possible TFs: Cebp	4.41593
61	jaspar_MA0102.3 Description: CEBPA Possible TFs: Cebp	4.78733	82	homer_NATGTTGCAA_CEBP_AP1 Description: CEBP:AP1(bZIP)/ThioMac-CEBPb-ChIP-Seq(GSE21512)/Homer Possible TFs: Cebp, Jun	4.4114
62	dbcorrdB_SPI1_ENC000BGW_1_m1 Description: SPI1 (ENC000BGW-1, motif 1) Possible TFs: Spi1	4.78108	83	cisbp_M6186 Description: CG7786[gene ID: "FBgn0034096" species: "Drosophila melanogaster" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]; DBP[gene ID: "ENSG00000105516" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	4.39709
63	dbcorrdB_CEBPB_ENC000EFM_1_m1 Description: CEBPB (ENC000EFM-1, motif 1) Possible TFs: Cebp	4.73934	84	dbcorrdB_JUN_ENC000EZT_1_m1 Description: JUN (ENC000EZT-1, motif 1) Possible TFs: Jun	4.39186
64	cisbp_M1925 Description: CEBPA[gene ID: "ENSG00000245848" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	4.69182	85	taipale_cyt_meth_SPIB_RAWWGMGAAGTN_FL Description: SPIB [ETS] Possible TFs: Spib	4.38084
65	cisbp_M0314 Description: Cebp[gene ID: "ENSMUSG00000056501" species: "Mus musculus" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	4.67056	86	transfac_pro_M04749 Description: V\$EP300_03: p300 Possible TFs: Ep300	4.37099
66	ENCFF001XYF Description: H3K4me1 ChIP-seq on mouse embryonic fibroblast (MEF)	4.66271	87	transfac_pro_M07224 Description: V\$SPI1_10: Spi1 Possible TFs: Spi1	4.36388
67	dbcorrdB_IKZF1_ENC000EUJ_1_m1 Description: IKZF1 (ENC000EUJ-1, motif 1) Possible TFs: Ikzf1	4.65173	88	homer_AAAGRGGAAGTG_SpiB Description: SpiB(ETS)/OCILY3-SPIB-ChIP-Seq(GSE56857)/Homer Possible TFs: Spib	4.35176
68	ENCFF001YDT Description: PSU mouse Megakaryo H3K4me1 ChIP-seq	4.62682	89	dbcorrdB_FOS_ENC000EVU_1_m1 Description: FOS (ENC000EVU-1, motif 1) Possible TFs: Fos	4.32417
69	taipale_cyt_meth_CEBPG_NRTTGCGYAAYN_FL_meth Description: CEBPG [bZIP, CpG-meth] Possible TFs: Cebp	4.60397	90	transfac_pro_M04761 Description: V\$HSF1_03: HSF1 Possible TFs: Hsf1	4.31167
70	dbcorrdB_SPI1_ENC000BGQ_1_m1 Description: SPI1 (ENC000BGQ-1, motif 1) Possible TFs: Spi1	4.59077	91	jaspar_MA0489.1 Description: JUN(var.2) Possible TFs: Jun	4.30002
71	cisbp_M2268 Description: CEBPB[gene ID: "ENSG00000172216" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	4.56185	92	dbcorrdB_RELA_ENC000EAQ_1_m1 Description: RELA (ENC000EAQ-1, motif 1) Possible TFs: Rela	4.28267
72	transfac_pro_M03571 Description: V\$CEBPD_Q6_01: C/EBPdelta Possible TFs: Cebp	4.56005	93	dbcorrdB_JUND_ENC000EIB_1_m1 Description: JUND (ENC000EIB-1, motif 1) Possible TFs: Jund	4.28252
73	taipale_cyt_meth_SPIB_RAWWGRGAAGTN_FL_meth Description: SPIB [ETS, CpG-meth] Possible TFs: Spib	4.54067	94	transfac_pro_M01896 Description: V\$CEBPB_Q6: C/EBPbeta Possible TFs: Cebp	4.28072
74	dbcorrdB_SPI1_ENC000BIJ_1_m1 Description: SPI1 (ENC000BIJ-1, motif 1) Possible TFs: Spi1	4.53801	95	taipale_cyt_meth_TEF_NRTTAYGTAAYN_eDBD Description: TEF [bZIP] Possible TFs: Tef	4.27079
75	dbcorrdB_MEF2A_ENC000BNV_1_m2 Description: MEF2A (ENC000BNV-1, motif 2) Possible TFs: Mef2a	4.50433			
76	transfac_pro_M07080 Description: V\$CEBPB_Q6: C/EBPbeta Possible TFs: Cebp	4.4722			

#	Feature	NES	#	Feature	NES
96	dbcordb_MYC_ENCSR000DOM_1_m3 Description: MYC (ENCSR000DOM-1, motif 3) Possible TFs: Myc, Bmyc	4.26509	116	dbcordb_JUN_ENCSR000EDG_1_m1 Description: JUN (ENCSR000EDG-1, motif 1) Possible TFs: Jun	4.1155
97	cisbp_M0310 Description: Cebp[<i>gene ID: "ENSMUSG00000052435"</i> species: "Mus musculus" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	4.2586	117	cisbp_M2278 Description: FOS[<i>gene ID: "ENSG00000170345"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]; Fos[<i>gene ID: "ENSMUSG00000021250"</i> species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]; Fosb[<i>gene ID: "ENSMUSG00000003545"</i> species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Fos	4.11089
98	taipale_cyt_meth_SPIB_RWWGRGGAAGTN_eDBD_meth Description: SPIB [ETS, CpG-meth] Possible TFs: Spib	4.25501	118	dbcordb_JUND_ENCSR000EDH_1_m1 Description: JUND (ENCSR000EDH-1, motif 1) Possible TFs: Jund	4.10229
99	dbcordb_JUN_ENCSR000EFS_1_m1 Description: JUN (ENCSR000EFS-1, motif 1) Possible TFs: Jun	4.25438	119	cisbp_M3036 Description: CEBPB[<i>gene ID: "ENSG00000172216"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	4.10034
100	jaspar_MA0476.1 Description: FOS Possible TFs: Fos	4.24219	120	dbcordb_JUN_ENCSR000EFA_1_m1 Description: JUN (ENCSR000EFA-1, motif 1) Possible TFs: Jun	4.09885
101	cisbp_M2290 Description: JUN[<i>gene ID: "ENSG00000177606"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Jun	4.23234	121	taipale_SPI1_full_AAAAAGCGGAAGTN_repr Description: SPI1 monomeric ETS full Possible TFs: Spi1	4.09869
102	taipale_cyt_meth_CEBPG_NRTTGCGYAAYN_FL Description: CEBPG [bZIP] Possible TFs: Cebp	4.19991	122	cisbp_M4526 Description: SMARCC1[<i>gene ID: "ENSG00000173473"</i> species: "Homo sapiens" TF status: "direct" TF family: "Myb/SANT" DBDs: "Myb_DNA-binding"]; Smarcc1[<i>gene ID: "ENSMUSG00000032481"</i> species: "Mus musculus" TF status: "inferred" TF family: "Myb/SANT" DBDs: "Myb_DNA-binding"]; Smarcc2[<i>gene ID: "ENSMUSG000000025369"</i> species: "Mus musculus" TF status: "inferred" TF family: "Myb/SANT" DBDs: "Myb_DNA-binding"]; mor[<i>gene ID: "FBgn0002783"</i> species: "Drosophila melanogaster" TF status: "inferred" TF family: "Myb/SANT" DBDs: "Myb_DNA-binding"] Possible TFs: Smarcc1	4.06876
103	dbcordb_MYC_ENCSR000DOM_1_m2 Description: MYC (ENCSR000DOM-1, motif 2) Possible TFs: Myc, Bmyc	4.19686	123	dbcordb_EP300_ENCSR000DZG_1_m1 Description: EP300 (ENCSR000DZG-1, motif 1) Possible TFs: Ep300	4.05602
104	dbcordb_JUND_ENCSR000EGN_1_m1 Description: JUND (ENCSR000EGN-1, motif 1) Possible TFs: Jund	4.19123	124	cisbp_M4591 Description: JUN[<i>gene ID: "ENSG00000177606"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Jun	4.0536
105	ENCF001XWH Description: H3K9ac ChIP-seq on mouse CH12	4.18695	125	cisbp_M2280 Description: FOSL2[<i>gene ID: "ENSG00000075426"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Fosl2	4.04828
106	dbcordb_RELA_ENCSR000EBD_1_m1 Description: RELA (ENCSR000EBD-1, motif 1) Possible TFs: Rela	4.18342	126	hocomoco_SPIB_HUMAN.H11MO.0.A Description: SPIB_HUMAN Possible TFs: Spib	4.03867
107	factorbook_PU1 Description: PU1 Possible TFs: Spi1, Irf4	4.17013	127	ENCF001YGL Description: PSU mouse Megakaryo GATA1 ChIP-seq	4.03288
108	dbcordb_GATA2_ENCSR000EVW_1_m2 Description: GATA2 (ENCSR000EVW-1, motif 2) Possible TFs: Gata2	4.16974	128	dbcordb_STAT3_ENCSR000DOU_1_m2 Description: STAT3 (ENCSR000DOU-1, motif 2) Possible TFs: Stat3	4.02953
109	dbcordb_JUN_ENCSR000EZW_1_m1 Description: JUN (ENCSR000EZW-1, motif 1) Possible TFs: Jun	4.16927	129	cisbp_M4489 Description: SPI1[<i>gene ID: "ENSG00000066336"</i> species: "Homo sapiens" TF status: "direct" TF family: "Ets" DBDs: "Ets"]; Spib[<i>gene ID: "ENSMUSG00000008193"</i> species: "Mus musculus" TF status: "inferred" TF family: "Ets" DBDs: "Ets"] Possible TFs: Spi1	4.02726
110	ENCF001XVQ Description: H3K4me1 ChIP-seq on 24-week mouse BAT	4.16134	130	scertf_macisaac.RTG3 Description: macisaac.RTG3	4.02507
111	transfac_public_M00117 Description: V\$CEBPB_02: C/EBPbeta Possible TFs: Cebp	4.15348	131	dbcordb_eGFP-JUND_ENCSR000DJX_1_m1 Description: eGFP-JUND (ENCSR000DJX-1, motif 1)	4.02007
112	dbcordb_TCF7L2_ENCSR000EUV_1_m2 Description: TCF7L2 (ENCSR000EUV-1, motif 2) Possible TFs: Tcf7l2	4.15231			
113	cisbp_M1907 Description: Sfp1[<i>gene ID: "ENSMUSG00000002111"</i> species: "Mus musculus" TF status: "direct" TF family: "Ets" DBDs: "Ets"]; Spib[<i>gene ID: "ENSMUSG00000008193"</i> species: "Mus musculus" TF status: "inferred" TF family: "Ets" DBDs: "Ets"] Possible TFs: Spi1	4.14285			
114	hocomoco_DBP_HUMAN.H11MO.0.B Description: DBP_HUMAN Possible TFs: Dbp	4.12894			
115	cisbp_M4625 Description: JUND[<i>gene ID: "ENSG00000130522"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Jund	4.12621			

#	Feature	NES	#	Feature	NES
132	jaspar_MA0478.1 Description: FOSL2 Possible TFs: FosL2	4.00749	152	jaspar_MA0477.1 Description: FOSL1 Possible TFs: FosL1	3.91933
133	dbcorrdb_JUND_ENCSR000BGK-1_m1 Description: JUND (ENCSR000BGK-1, motif 1) Possible TFs: Jund	4.00217	153	hocomoco_HLF_MOUSE.H11MO.0.C Description: HLF_MOUSE Possible TFs: Hlf	3.91784
134	dbcorrdb_FOSL2_ENCSR000BHP-1_m1 Description: FOSL2 (ENCSR000BHP-1, motif 1) Possible TFs: FosL2	3.99967	154	ENCFF001XW1 Description: H3K27ac ChIP-seq on mouse CH12	3.91641
135	hocomoco_SPI1_HUMAN.H11MO.0.A Description: SPI1_HUMAN Possible TFs: Spi1	3.99889	155	dbcorrdb_RELA_ENCSR000EAW-1_m1 Description: RELA (ENCSR000EAW-1, motif 1) Possible TFs: Rela	3.91589
136	cisbp_M3035 Description: CEBPB[<i>gene ID: "ENSG00000172216"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebp	3.99389	156	transfac_pro_M03563 Description: V\$RELA_Q6: RelA-p65 Possible TFs: Rela	3.91307
137	transfac_pro_M02076 Description: V\$SPIB_03: Spi-B Possible TFs: Spib	3.98115	157	transfac_public_M00174 Description: V\$AP1_Q6: AP-1 Possible TFs: Jun, Fos	3.91088
138	swissregulon_hs_SPI1.p2 Description: hs_SPI1.p2 Possible TFs: Spi1	3.97638	158	homer_DATGASTCAT_BATF Description: BATF(bZIP)/Th17-BATF-ChIP-Seq(GSE39756)/Homer Possible TFs: Batf	3.9069
139	dbcorrdb_GATA2_ENCSR000EVW-1_m3 Description: GATA2 (ENCSR000EVW-1, motif 3) Possible TFs: Gata2	3.97185	159	dbcorrdb_FOS_ENCSR000DON-1_m1 Description: FOS (ENCSR000DON-1, motif 1) Possible TFs: Fos	3.89901
140	factorbook_AP1 Description: AP1 Possible TFs: Batf, Fos, Junb, Jun, Jund, FosL1, FosL2	3.96239	160	dbcorrdb_RELA_ENCSR000EAN-1_m1 Description: RELA (ENCSR000EAN-1, motif 1) Possible TFs: Rela	3.89549
141	dbcorrdb_SMARCC1_ENCSR000EDM-1_m1 Description: SMARCC1 (ENCSR000EDM-1, motif 1) Possible TFs: Smarcc1	3.95762	161	hocomoco_SPIB_MOUSE.H11MO.0.A Description: SPIB_MOUSE Possible TFs: Spib	3.8908
142	jaspar_MA0490.1 Description: JUNB Possible TFs: Junb	3.95074	162	yetfasco_YER064C_2094 Description: YER064C_2094	3.88853
143	cisbp_M2291 Description: JUNB[<i>gene ID: "ENSG00000171223"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Junb	3.94746	163	dbcorrdb_FOSL1_ENCSR000BMV-1_m1 Description: FOSL1 (ENCSR000BMV-1, motif 1) Possible TFs: FosL1	3.88681
144	transfac_pro_M07316 Description: V\$CEBPD_Q3: C/EBPdelta Possible TFs: Cebp	3.93918	164	dbcorrdb_eGFP-FOS_ENCSR000DKB-1_m1 Description: eGFP-FOS (ENCSR000DKB-1, motif 1)	3.88197
145	swissregulon_hs_BACH2.p2 Description: hs_BACH2.p2 Possible TFs: Bach2	3.93207	165	transfac_pro_M07285 Description: V\$ESE1_Q6: ESE-1 Possible TFs: Elf3	3.87923
146	cisbp_M2980 Description: BACH2[<i>gene ID: "ENSG00000112182"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]; Bach1[<i>gene ID: "ENSMUSG00000025612"</i> species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]; Bach2[<i>gene ID: "ENSMUSG00000040270"</i> species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Bach2	3.93066	166	cisbp_M1924 Description: REL[<i>gene ID: "ENSG00000162924"</i> species: "Homo sapiens" TF status: "direct" TF family: "Rel" DBDs: "RHD"]; Rel[<i>gene ID: "ENSMUSG00000020275"</i> species: "Mus musculus" TF status: "inferred" TF family: "Rel" DBDs: "RHD"] Possible TFs: Rel	3.87173
147	predrem_nrMotif2500 Description: 310_IMR90-DS13219.M101	3.93011	167	dbcorrdb_RCOR1_ENCSR000ECM-1_m1 Description: RCOR1 (ENCSR000ECM-1, motif 1) Possible TFs: Rcor1	3.8704
148	yetfasco_YEL009C_1363 Description: YEL009C_1363	3.92988	168	ENCFF001YAX Description: POLR2A ChIP-seq on 8-week mouse small intestine	3.86413
149	dbcorrdb_RELA_ENCSR000EAG-1_m1 Description: RELA (ENCSR000EAG-1, motif 1) Possible TFs: Rela	3.92472	169	transfac_pro_M03866 Description: V\$CFOSJUN_Q5: c-Fos:c-Jun Possible TFs: Jun, Fos	3.86032
150	cisbp_M4623 Description: JUNB[<i>gene ID: "ENSG00000171223"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Junb	3.92089	170	cisbp_M3091 Description: REL[<i>gene ID: "ENSG00000162924"</i> species: "Homo sapiens" TF status: "direct" TF family: "Rel" DBDs: "RHD"]; Rel[<i>gene ID: "ENSMUSG00000020275"</i> species: "Mus musculus" TF status: "inferred" TF family: "Rel" DBDs: "RHD"] Possible TFs: Rel	3.85797
151	transfac_pro_M01267 Description: V\$FRA1_Q5: Fra-1 Possible TFs: FosL1	3.92026	171	transfac_pro_M00925 Description: V\$AP1_Q6_01: AP-1 Possible TFs: Fos, Fosb, Junb, Jun, Jund, FosL1, FosL2	3.85719

#	Feature	NES	#	Feature	NES
172	cisbp_M4590 Description: FOS[<i>gene ID: "ENSG00000170345" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"; Fos[<i>gene ID: "ENSMUSG00000021250" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"; Fosb[<i>gene ID: "ENSMUSG00000003545" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Fos</i></i>	3.85711	189	cisbp_M4530 Description: FOS[<i>gene ID: "ENSG00000170345" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"; Fos[<i>gene ID: "ENSMUSG00000021250" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"; Fosb[<i>gene ID: "ENSMUSG00000003545" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Fos</i></i>	3.77153
173	transfac_pro_M07037 Description: V\$CEBPA_Q4: C/EBPalpha Possible TFs: Cebpa	3.84133	190	dbcorrd_b_JUND_ENCSR000EBZ_1_m1 Description: JUND (ENCSR000EBZ-1, motif 1) Possible TFs: Jund	3.76966
174	cisbp_M2292 Description: JUND[<i>gene ID: "ENSG00000130522" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Jund	3.83296	191	transfac_pro_M00912 Description: V\$CEBP_Q2_01: C/EBP Possible TFs: Cebpb, Cebpa, Cebpg, Cebpe, Cebpd	3.76872
175	dbcorrd_b_JUN_ENCSR000EGH_1_m1 Description: JUN (ENCSR000EGH-1, motif 1) Possible TFs: Jun	3.82249	192	cisbp_M4531 Description: JUN[<i>gene ID: "ENSG00000177606" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Jun	3.76583
176	transfac_pro_M02077 Description: V\$SPIC_Q2: Spic Possible TFs: Spic	3.81889	193	dbcorrd_b_REL_A_ENCSR000EAI_1_m1 Description: REL_A (ENCSR000EAI-1, motif 1) Possible TFs: Rela	3.75332
177	transfac_pro_M03552 Description: V\$JUND_Q6: JunD Possible TFs: Jund	3.81858	194	dbcorrd_b_eGFP-JUNB_ENCSR000DJY_1_m1 Description: eGFP-JUNB (ENCSR000DJY-1, motif 1)	3.75121
178	homer_ATGACTCATC_AP-1 Description: AP-1(bZIP)/ThioMac-PU.1-ChIP-Seq(GSE21512)/Homer Possible TFs: Jun	3.80686	195	hocomoco_CEBPD_MOUSE.H11MO.0.B Description: CEBPD_MOUSE Possible TFs: Cebpd	3.73871
179	cisbp_M2279 Description: FOSL1[<i>gene ID: "ENSG00000175592" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"; Fos[<i>gene ID: "ENSMUSG00000021250" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"; Fosb[<i>gene ID: "ENSMUSG00000003545" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Fosl1</i></i>	3.80678	196	dbcorrd_b_JUN_ENCSR000FAH_1_m1 Description: JUN (ENCSR000FAH-1, motif 1) Possible TFs: Jun	3.72331
180	transfac_public_M00490 Description: V\$BACH2_Q1: Bach2 Possible TFs: Bach2	3.80584	197	neph_UW.Motif.0001 Description: atgactca	3.7194
181	cisbp_M0326 Description: M0326	3.80389	198	dbcorrd_b_EP300_ENCSR000ECV_1_m1 Description: EP300 (ENCSR000ECV-1, motif 1) Possible TFs: Ep300	3.71596
182	dbcorrd_b_REL_A_ENCSR000EBI_1_m1 Description: REL_A (ENCSR000EBI-1, motif 1) Possible TFs: Rela	3.80123	199	dbcorrd_b_EP300_ENCSR000BPW_1_m1 Description: EP300 (ENCSR000BPW-1, motif 1) Possible TFs: Ep300	3.71135
183	transfac_pro_M02078 Description: V\$SPI1_Q3: SPI1 Possible TFs: Spi1	3.79662	200	transfac_pro_M07379 Description: V\$ETS2_Q4: c-Ets-2 Possible TFs: Ets2	3.70721
184	ENCFF001XYH Description: H3K4me1 ChIP-seq on mouse MEL	3.79659	201	cisbp_M5050 Description: Jra[<i>gene ID: "FBgn0001291" species: "Drosophila melanogaster" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Junb, Jun, Jund	3.69893
185	ENCFF001YFH Description: PSU mouse G1E TAL1 ChIP-seq	3.79018	202	flyfactorsurvey_kay_Jra_SANGER_5_FBgn0001291 Description: kay_Jra_SANGER_5_FBgn0001291 Possible TFs: Junb, Jun, Jund	3.69666
186	cisbp_M4475 Description: SPI1[<i>gene ID: "ENSG00000066336" species: "Homo sapiens" TF status: "direct" TF family: "Ets" DBDs: "Ets"; Spib[<i>gene ID: "ENSMUSG00000008193" species: "Mus musculus" TF status: "inferred" TF family: "Ets" DBDs: "Ets"]</i> Possible TFs: Spi1</i>	3.78865	203	homer_GATGACTCATCN_Jun-AP1 Description: Jun-AP1(bZIP)/K562-cJun-ChIP-Seq(GSE31477)/Homer Possible TFs: Jun	3.69322
187	ENCFF001YDS Description: PSU mouse Megakaryo H3K4me1 ChIP-seq	3.78302	204	cisbp_M6317 Description: JUNB[<i>gene ID: "ENSG00000171223" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Junb	3.68517
188	transfac_pro_M04690 Description: V\$CEBPB_Q4: C/EBPbeta Possible TFs: Cebpb	3.772	205	cisbp_M6171 Description: CEBPD[<i>gene ID: "ENSG00000221869" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Cebpd	3.68392

#	Feature	NES	#	Feature	NES
206	cisbp_M4619 Description: FOSL1[<i>gene ID: "ENSG00000175592" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"; Fos[<i>gene ID: "ENSMUSG00000021250" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"; Fosb[<i>gene ID: "ENSMUSG00000003545" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Fosl1</i></i>	3.67681	222	cisbp_M4607 Description: FOS[<i>gene ID: "ENSG00000170345" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"; Fos[<i>gene ID: "ENSMUSG00000021250" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"; Fosb[<i>gene ID: "ENSMUSG00000003545" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Fos</i></i>	3.58529
207	hocomoco_FOSL2_MOUSE.H11MO.0.A Description: FOSL2_MOUSE Possible TFs: Fosl2	3.67603	223	jaspar_MA0491.1 Description: JUND Possible TFs: Jund	3.58325
208	dbcordb_FOS_ENCSR000DOP_1_m1 Description: FOS (ENCSR000DOP-1, motif 1) Possible TFs: Fos	3.66884	224	cisbp_M6277 Description: HLF[<i>gene ID: "ENSG00000108924" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"; Pdp1[<i>gene ID: "FBgn0016694" species: "Drosophila melanogaster" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Hlf</i>	3.57794
209	cisbp_M6319 Description: JUN[<i>gene ID: "ENSG00000177606" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Jun	3.66118	225	taipale_cyt_meth_HLF_NRTTRYGYAAYN_FL_meth_repr Description: HLF [bZIP, CpG-meth] Possible TFs: Hlf	3.57638
210	dbcordb_FOS_ENCSR000EZE_1_m1 Description: FOS (ENCSR000EZE-1, motif 1) Possible TFs: Fos	3.65758	226	cisbp_M4608 Description: JUN[<i>gene ID: "ENSG00000177606" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Jun	3.5695
211	jaspar_MA0101.1 Description: REL Possible TFs: Rel	3.65133	227	dbcordb_FOS_ENCSR000DOO_1_m1 Description: FOS (ENCSR000DOO-1, motif 1) Possible TFs: Fos	3.56942
212	transfac_public_M00054 Description: V\$NFKAPPAB_01: NF-kappaB Possible TFs: Nfkb1, Rela, Rel	3.64953	228	cisbp_M6229 Description: FOSL1[<i>gene ID: "ENSG00000175592" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"; Fos[<i>gene ID: "ENSMUSG00000021250" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"; Fosb[<i>gene ID: "ENSMUSG00000003545" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Fosl1</i></i>	3.56536
213	dbcordb_FOS_ENCSR000DOT_1_m1 Description: FOS (ENCSR000DOT-1, motif 1) Possible TFs: Fos	3.64265	229	cisbp_M6318 Description: JUND[<i>gene ID: "ENSG00000130522" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]</i> Possible TFs: Jund	3.56207
214	swissregulon_hs_FOS_FOS_B.L1_JUN_B.D.p2 Description: hs_FOS_FOS{B,L1}_JUN{B,D}.p2 Possible TFs: Fosb, Junb, Fosl1, Jund, Fos	3.64203	230	taipale_Spic_DBD_AAAAAGMGGAAGTA Description: Spic monomeric ETS DBD Possible TFs: Spic	3.56184
215	ENCFF001YAN Description: POLR2A ChIP-seq on 8-week mouse liver	3.64074	231	taipale_cyt_meth_TEF_NRTTAYGTAAAYN_eDBD_meth Description: TEF [bZIP, CpG-meth] Possible TFs: Tef	3.56004
216	hocomoco_HLF_HUMAN.H11MO.0.C Description: HLF_HUMAN Possible TFs: Hlf	3.6364	232	cisbp_M0344 Description: M0344	3.55871
217	transfac_pro_M08926 Description: V\$JUNB_02: JUNB Possible TFs: Junb	3.616	233	dbcordb_STAT3_ENCSR000DPB_1_m2 Description: STAT3 (ENCSR000DPB-1, motif 2) Possible TFs: Stat3	3.54519
218	transfac_public_M00053 Description: V\$CREL_01: c-Rel Possible TFs: Rel	3.6153	234	transfac_pro_M08942 Description: V\$FOSJUN_02: C-FOS:C-JUN Possible TFs: Jun	3.53769
219	cisbp_M6222 Description: ENSMUSG00000044690[<i>gene ID: "ENSMUSG00000044690" species: "Mus musculus" TF status: "inferred" TF family: "Ets" DBDs: "Ets"; ETV4[<i>gene ID: "ENSG00000175832" species: "Homo sapiens" TF status: "direct" TF family: "Ets" DBDs: "Ets"; Ets2[<i>gene ID: "ENSMUSG00000022895" species: "Mus musculus" TF status: "inferred" TF family: "Ets" DBDs: "Ets"; Etv2[<i>gene ID: "ENSMUSG00000006311" species: "Mus musculus" TF status: "inferred" TF family: "Ets" DBDs: "Ets"; Fev[<i>gene ID: "ENSMUSG00000055197" species: "Mus musculus" TF status: "inferred" TF family: "Ets" DBDs: "Ets"]</i> Possible TFs: Etv4</i></i></i></i>	3.60608	235	transfac_pro_M08920 Description: V\$JUNBFOSB_01: JUNB:FOSB Possible TFs: Junb	3.5348
220	hocomoco_ETV4_MOUSE.H11MO.0.B Description: ETV4_MOUSE Possible TFs: Etv4	3.59154	236	transfac_public_M00109 Description: V\$CEBPB_01: C/EBPbeta Possible TFs: Cebp	3.53198
221	dbcordb_FOSL2_ENCSR000BQO_1_m1 Description: FOSL2 (ENCSR000BQO-1, motif 1) Possible TFs: Fosl2	3.58677	237	transfac_pro_M08931 Description: V\$JUNDFRA2_01: JUND:FRA-2 Possible TFs: Fosl2	3.52284
			238	dbcordb_EP300_ENCSR000DZD_1_m3 Description: EP300 (ENCSR000DZD-1, motif 3) Possible TFs: Ep300	3.52182

#	Feature	NES	#	Feature	NES
239	dbcordb_RCOR1_ENCSR000EFG_1_m1 Description: RCOR1 (ENCSR000EFG-1, motif 1) Possible TFs: Rcor1	3.52135	256	cisbp_M5195 Description: slbo[gene ID: "FBgn0005638" species: "Drosophila melanogaster" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]	3.47688
240	transfac_pro_M08923 Description: V\$JUNBFRA2_01: JUNB:FRA-2 Possible TFs: Junb	3.52128	257	transfac_pro_M03870 Description: V\$FRA2_Q4_01: Fra-2 Possible TFs: Fos12	3.47555
241	cisbp_M4497 Description: Nfkb1[gene ID: "ENSMUSG00000028163" species: "Mus musculus" TF status: "inferred" TF family: "Rel" DBDs: "RHD"]; RELA[gene ID: "ENSG00000173039" species: "Homo sapiens" TF status: "direct" TF family: "Rel" DBDs: "RHD"] Possible TFs: Rela	3.51932	258	transfac_pro_M00339 Description: V\$ETS1_B: c-Ets-1 Possible TFs: Ets1	3.47391
242	cisbp_M6158 Description: BATF[gene ID: "ENSG00000156127" species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]; Batf3[gene ID: "ENSMUSG00000026630" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]; Batf[gene ID: "ENSMUSG00000034266" species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Batf	3.51784	259	transfac_pro_M08938 Description: V\$JUNFRA1_01: C-JUN:FRA-1 Possible TFs: Fos11	3.46883
243	jaspar_MA0099.2 Description: FOS::JUN Possible TFs: Jun	3.51729	260	taipale_IRF9_full_AWCGAAACCGAAACY Description: IRF9 trimeric IRF full Possible TFs: Irf9	3.46704
244	cisbp_M4444 Description: Nfkb1[gene ID: "ENSMUSG00000028163" species: "Mus musculus" TF status: "inferred" TF family: "Rel" DBDs: "RHD"]; RELA[gene ID: "ENSG00000173039" species: "Homo sapiens" TF status: "direct" TF family: "Rel" DBDs: "RHD"] Possible TFs: Rela	3.51573	261	transfac_pro_M03815 Description: V\$CFOS_Q6: c-Fos Possible TFs: Fos	3.46344
245	homer_GGAAATTCCC_NfKB-p65-Rel Description: NFkB-p65-Rel(RHD)/ThioMac-LPS-Expression(GSE23622)/Homer Possible TFs: Rela	3.51299	262	ENCFF001XUG Description: H3K4me2 ChIP-seq on mouse C2C12 differentiated for 60 hours	3.46133
246	taipale_cyt_meth_JUNB_NATGASTCAYN_eDBD_meth Description: JUNB [bZIP, CpG-meth] Possible TFs: Junb	3.50377	263	taipale_cyt_meth_NFE2_NATGASTCATN_eDBD_meth_repr Description: NFE2 [bZIP, CpG-meth] Possible TFs: Nfe2	3.46063
247	taipale_cyt_meth_JDP2_NRTGASTCAYN_FL_meth Description: JDP2 [bZIP, CpG-meth] Possible TFs: Jdp2	3.50361	264	cisbp_M0304 Description: Cebpa[gene ID: "ENSMUSG00000034957" species: "Mus musculus" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Cebpa	3.44968
248	dbcordb_JUND_ENCSR000EEI_1_m1 Description: JUND (ENCSR000EEI-1, motif 1) Possible TFs: Jund	3.50182	265	transfac_pro_M08936 Description: V\$JUNFOSB_01: C-JUN:FOSB Possible TFs: Fosb	3.44906
249	transfac_public_M00173 Description: V\$AP1_Q2: AP-1 Possible TFs: Jun, Fos	3.50158	266	transfac_pro_M02031 Description: V\$SPI1_Q5: PU.1 Possible TFs: Spi1	3.44609
250	dbcordb_JUN_ENCSR000EZC_1_m2 Description: JUN (ENCSR000EZC-1, motif 2) Possible TFs: Jun	3.5001	267	ENCFF001YFI Description: PSU mouse G1E TAL1 ChIP-seq	3.44442
251	dbcordb_RELA_ENCSR000EBA_1_m1 Description: RELA (ENCSR000EBA-1, motif 1) Possible TFs: Rela	3.489	268	transfac_pro_M08998 Description: V\$GR_Q2: GR Possible TFs: Nr3c1	3.44429
252	cisbp_M6511 Description: RELA[gene ID: "ENSG00000173039" species: "Homo sapiens" TF status: "direct" TF family: "Rel" DBDs: "RHD"]; Rel[gene ID: "ENSMUSG00000020275" species: "Mus musculus" TF status: "inferred" TF family: "Rel" DBDs: "RHD"] Possible TFs: Rela	3.48829	269	transfac_pro_M03579 Description: V\$PEA3_Q6_Q2: PEA3 Possible TFs: Ets4	3.44132
253	hocomoco_JUND_HUMAN.H11MO.0.A Description: JUND_HUMAN Possible TFs: Jund	3.4829	270	dbcordb_TCF12_ENCSR000BQQ_1_m2 Description: TCF12 (ENCSR000BQQ-1, motif 2) Possible TFs: Tcf12	3.43796
254	dbcordb_ATF3_ENCSR000BNU_1_m1 Description: ATF3 (ENCSR000BNU-1, motif 1) Possible TFs: Atf3	3.4822	271	cisbp_M4491 Description: Nfkb1[gene ID: "ENSMUSG00000028163" species: "Mus musculus" TF status: "inferred" TF family: "Rel" DBDs: "RHD"]; RELA[gene ID: "ENSG00000173039" species: "Homo sapiens" TF status: "direct" TF family: "Rel" DBDs: "RHD"] Possible TFs: Rela	3.43601
255	taipale_tf_pairs_BACH1_ATGACTCAT_HT Description: BACH1 [bZIP] Possible TFs: Bach1	3.47884	272	dbcordb_STAT3_ENCSR000EDC_1_m1 Description: STAT3 (ENCSR000EDC-1, motif 1) Possible TFs: Stat3	3.43288
			273	cisbp_M3623 Description: RELA[gene ID: "ENSG00000173039" species: "Homo sapiens" TF status: "direct" TF family: "Rel" DBDs: "RHD"]; Rel[gene ID: "ENSMUSG00000020275" species: "Mus musculus" TF status: "inferred" TF family: "Rel" DBDs: "RHD"] Possible TFs: Rela	3.43077
			274	jaspar_MA0107.1 Description: RELA Possible TFs: Rela	3.42913

#	Feature	NES	#	Feature	NES
275	factorbook_ETSI Description: ETS1 Possible TFs: Ets1	3.42882	293	transfac_public_M00517 Description: V\$AP1_Q1: AP-1 Possible TFs: Fos, Fosb, Junb, Jun, Jund, Fosl1	3.37161
276	cisbp_M0352 Description: GCN4[<i>gene ID: "YEL009C"</i> species: " <i>Saccharomyces cerevisiae</i> " TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]	3.42639	294	hocomoco_NFIL3_HUMAN.H11MO.0.D Description: NFIL3_HUMAN Possible TFs: Nfil3	3.37004
277	cisbp_M1930 Description: RELA[<i>gene ID: "ENSG00000173039"</i> species: " <i>Homo sapiens</i> " TF status: "direct" TF family: "Rel" DBDs: "RHD"]; Rel[<i>gene ID: "ENSMUSG00000020275"</i> species: " <i>Mus musculus</i> " TF status: "inferred" TF family: "Rel" DBDs: "RHD"] Possible TFs: Rela	3.41772	295	taipale_HLF_full_NRTTACGTAAYN Description: HLF dimeric bZIP full Possible TFs: Hlf	3.36911
278	hocomoco_JUN_HUMAN.H11MO.0.A Description: JUN_HUMAN Possible TFs: Jun	3.41233	296	cisbp_M5516 Description: HLF[<i>gene ID: "ENSG00000108924"</i> species: " <i>Homo sapiens</i> " TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]; Pdp1[<i>gene ID: "FBgn0016694"</i> species: " <i>Drosophila melanogaster</i> " TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Hlf	3.36684
279	ENCFF001YHG Description: H3K4me1 Histone Modification by ChIP-seq on mouse MEL produced by the Snyder lab	3.41162	297	transfac_pro_M08925 Description: V\$JUNBFOS_Q1: JUNB:C-FOS Possible TFs: Junb	3.36512
280	taipale_cyt_meth_JUN_NATGACTCATN_FL_meth Description: JUN [bZIP, CpG-meth] Possible TFs: Jun	3.40545	298	transfac_pro_M08801 Description: V\$CEBPE_Q6_Q1: C/EBPepsilon Possible TFs: Cebpe	3.35895
281	hocomoco_ETV6_HUMAN.H11MO.0.D Description: ETV6_HUMAN Possible TFs: Etv6	3.39646	299	ENCFF001YFG Description: PSU mouse G1E TAL1 ChIP-seq	3.35829
282	dbcordb_RELA_ENCSR000EBM_1_m1 Description: RELA (ENCSR000EBM-1, motif 1) Possible TFs: Rela	3.39466	300	dbcordb_RELA_ENCSR000DYM_1_m1 Description: RELA (ENCSR000DYM-1, motif 1) Possible TFs: Rela	3.35809
283	transfac_public_M00052 Description: V\$NFKAPAB65_Q1: NF-kappaB (p65) Possible TFs: Rela	3.38857	301	hocomoco_PRGR_MOUSE.H11MO.0.A Description: PRGR_MOUSE Possible TFs: Pgr	3.35004
284	hocomoco_ATF3_MOUSE.H11MO.0.A Description: ATF3_MOUSE Possible TFs: Atf3	3.38341	302	hocomoco_FOS_MOUSE.H11MO.0.A Description: FOS_MOUSE Possible TFs: Fos	3.34808
285	transfac_pro_M00971 Description: V\$ETS_Q6: Ets Possible TFs: Spib, Gabpb1, Psm12, Etv4, Etv6, Fli1, Spi1, Ets1, Ets2, Elk3, Erg, Elk1, Elk4, Elf1, Gabpa, Elf2, Elf4	3.38278	303	transfac_pro_M03551 Description: V\$JUNB_Q6: JunB Possible TFs: Junb	3.34636
286	ENCFF001YFJ Description: GATA1 ChIP-seq on mouse G1E-ER4 differentiated for 14 hours	3.3816	304	hocomoco_FOSB_HUMAN.H11MO.0.A Description: FOSB_HUMAN Possible TFs: Fosb	3.34214
287	cisbp_M6467 Description: SMARCC1[<i>gene ID: "ENSG00000173473"</i> species: " <i>Homo sapiens</i> " TF status: "direct" TF family: "Myb/SANT" DBDs: "Myb_DNA-binding"]; Smarcc1[<i>gene ID: "ENSMUSG00000032481"</i> species: " <i>Mus musculus</i> " TF status: "inferred" TF family: "Myb/SANT" DBDs: "Myb_DNA-binding"]; Smarcc2[<i>gene ID: "ENSMUSG00000025369"</i> species: " <i>Mus musculus</i> " TF status: "inferred" TF family: "Myb/SANT" DBDs: "Myb_DNA-binding"]; mor[<i>gene ID: "FBgn0002783"</i> species: " <i>Drosophila melanogaster</i> " TF status: "inferred" TF family: "Myb/SANT" DBDs: "Myb_DNA-binding"] Possible TFs: Smarcc1	3.37786	305	cisbp_M4631 Description: SPI1[<i>gene ID: "ENSG00000066336"</i> species: " <i>Homo sapiens</i> " TF status: "direct" TF family: "Ets" DBDs: "Ets"]; Spib[<i>gene ID: "ENSMUSG00000008193"</i> species: " <i>Mus musculus</i> " TF status: "inferred" TF family: "Ets" DBDs: "Ets"] Possible TFs: Spi1	3.34191
288	transfac_pro_M00926 Description: V\$AP1_Q4_Q1: AP-1 Possible TFs: Fos, Fosb, Junb, Jun, Jund, Fosl1, Fosl2	3.37731	306	transfac_pro_M02043 Description: V\$SPI1_Q2: SPI1 Possible TFs: Spi1	3.34136
289	transfac_pro_M08922 Description: V\$JUNBFRA1_Q1: JUNB:FRA-1 Possible TFs: Junb	3.37325	307	taipale_SPIB_DBD_AAAAAGMGGAAGTN Description: SPIB monomeric ETS DBD Possible TFs: Spib	3.34097
290	factorbook_NFKB1 Description: NFKB1 Possible TFs: Nfkb1, Bcl3	3.37309	308	transfac_public_M00188 Description: V\$AP1_Q4: AP-1 Possible TFs: Jun, Fos	3.33675
291	homer_DATGASTCATHN_At3 Description: Atf3(bZIP)/GBM-ATF3-ChIP-Seq(GSE33912)/Homer Possible TFs: Atf3	3.37254	309	transfac_pro_M08933 Description: V\$JUNDFOS_Q1: JUND:C-FOS Possible TFs: Jund	3.33354
292	transfac_pro_M03538 Description: V\$AP1_Q6_Q2: AP-1 Possible TFs: Jun, Fos	3.37231	310	dbcordb_EP300_ENCSR000BHB_1_m2 Description: EP300 (ENCSR000BHB-1, motif 2) Possible TFs: Ep300	3.33339
			311	predrem_nrMotif551 Description: 161_fMuscle_arm-DS17765.M293	3.33315
			312	transfac_pro_M03869 Description: V\$FRA1_Q6_Q1: Fra-1 Possible TFs: Fosl1	3.33315
			313	transfac_pro_M01239 Description: V\$RELB_P52_Q1: RelB:p52 (NF-kappaB) Possible TFs: Relb, Rela	3.32784

#	Feature	NES	#	Feature	NES
314	cisbp_M4506 Description: JUND[<i>gene ID: "ENSG00000130522"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Jund	3.32776	329	cisbp_M2979 Description: BACH1[<i>gene ID: "ENSG00000156273"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]; Bach1[<i>gene ID: "ENSMUSG00000025612"</i> species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]; Bach2[<i>gene ID: "ENSMUSG00000040270"</i> species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Bach1	3.26571
315	dbcorrdB_Nr3C1_ENCSR000BHG_1_m1 Description: NR3C1 (ENCSR000BHG-1, motif 1) Possible TFs: Nr3c1	3.32495	330	cisbp_M2428 Description: GCN4[<i>gene ID: "YEL009C"</i> species: "Saccharomyces cerevisiae" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]	3.25586
316	yetfasco_YIL056W_2091 Description: YIL056W_2091	3.32432	331	transfac_pro_M02241 Description: V\$ELF5_04: Elf5 Possible TFs: Elf5	3.2557
317	hocomoco_GCR_HUMAN.H11MO.0.A Description: GCR_HUMAN Possible TFs: Nr3c1	3.31065	332	taipale_cyt_meth_ELF5_NANNAGGAAGTN_eDBD_meth Description: ELF5 [ETS, CpG-meth] Possible TFs: Elf5	3.25461
318	transfac_pro_M02095 Description: V\$FRA1_Q6: Fra-1 Possible TFs: Fos1	3.30447	333	transfac_pro_M02022 Description: V\$MAFK_Q3: MafK Possible TFs: Mafk	3.2525
319	transfac_pro_M04846 Description: V\$MEF2C_04: MEF-2C Possible TFs: Mef2c	3.30048	334	transfac_pro_M08944 Description: V\$JUNBFOS_02: JUNB:C-FOS Possible TFs: Junb	3.2489
320	dbcorrdB_JUND_ENCSR000BKP_1_m1 Description: JUND (ENCSR000BKP-1, motif 1) Possible TFs: Jund	3.29994	335	dbcorrdB_Nr3C1_ENCSR000BHE_1_m1 Description: NR3C1 (ENCSR000BHE-1, motif 1) Possible TFs: Nr3c1	3.24765
321	cisbp_M6096 Description: Spib[<i>gene ID: "ENSMUSG00000008193"</i> species: "Mus musculus" TF status: "inferred" TF family: "Ets" DBDs: "Ets"]; Spic[<i>gene ID: "ENSMUSG00000004359"</i> species: "Mus musculus" TF status: "direct" TF family: "Ets" DBDs: "Ets"] Possible TFs: Spic	3.29853	336	taipale_TEF_FL_NRTTACRTAAYN Description: TEF dimeric bZIP FL Possible TFs: Tef	3.24749
322	homer_MTGATGCAAT_At4 Description: Atf4(bZIP)/MEF-Atf4-ChIP-Seq(GSE35681)/Homer Possible TFs: Atf4	3.29798	337	cisbp_M5910 Description: Pdp1[<i>gene ID: "FBgn0016694"</i> species: "Drosophila melanogaster" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]; TEF[<i>gene ID: "ENSG00000167074"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Tef	3.24046
323	hocomoco_JUN_MOUSE.H11MO.0.A Description: JUN_MOUSE Possible TFs: Jun	3.29439	338	cisbp_M4428 Description: NR3C1[<i>gene ID: "ENSG00000113580"</i> species: "Homo sapiens" TF status: "direct" TF family: "Nuclear receptor" DBDs: "zf-C4"]; Nr3c2[<i>gene ID: "ENSMUSG00000031618"</i> species: "Mus musculus" TF status: "inferred" TF family: "Nuclear receptor" DBDs: "zf-C4"]; Pgr[<i>gene ID: "ENSMUSG00000031870"</i> species: "Mus musculus" TF status: "inferred" TF family: "Nuclear receptor" DBDs: "zf-C4"] Possible TFs: Nr3c1	3.23562
324	cisbp_M4499 Description: Nfkb1[<i>gene ID: "ENSMUSG00000028163"</i> species: "Mus musculus" TF status: "inferred" TF family: "Rel" DBDs: "RHD"]; REL[<i>gene ID: "ENSG00000173039"</i> species: "Homo sapiens" TF status: "direct" TF family: "Rel" DBDs: "RHD"] Possible TFs: Rela	3.27884	339	jaspar_MA0517.1 Description: STAT1::STAT2 Possible TFs: Stat2	3.23155
325	cisbp_M6449 Description: REL[<i>gene ID: "ENSG00000162924"</i> species: "Homo sapiens" TF status: "direct" TF family: "Rel" DBDs: "RHD"]; Rel[<i>gene ID: "ENSMUSG00000020275"</i> species: "Mus musculus" TF status: "inferred" TF family: "Rel" DBDs: "RHD"] Possible TFs: Rel	3.27884	340	transfac_pro_M08940 Description: V\$JUNFRA2_01: C-JUN:FRA-2 Possible TFs: Fos12	3.23038
326	cisbp_M4565 Description: FOSL2[<i>gene ID: "ENSG00000075426"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]; Fos[<i>gene ID: "ENSMUSG00000021250"</i> species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]; Fosb[<i>gene ID: "ENSMUSG00000003545"</i> species: "Mus musculus" TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Fos12	3.27344	341	cisbp_M4570 Description: JUND[<i>gene ID: "ENSG00000130522"</i> species: "Homo sapiens" TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Jund	3.22741
327	transfac_public_M00199 Description: V\$AP1_C: AP-1 Possible TFs: Jun, Fos	3.27297	342	swissregulon_hs_FOSL2.p2 Description: hs_FOSL2.p2 Possible TFs: Fos12	3.22639
328	homer_ATTGCATCAT_Chop Description: Chop(bZIP)/MEF-Chop-ChIP-Seq(GSE35681)/Homer Possible TFs: Ddit3	3.2675	343	cisbp_M4485 Description: Nfkb1[<i>gene ID: "ENSMUSG00000028163"</i> species: "Mus musculus" TF status: "inferred" TF family: "Rel" DBDs: "RHD"]; REL[<i>gene ID: "ENSG00000173039"</i> species: "Homo sapiens" TF status: "direct" TF family: "Rel" DBDs: "RHD"] Possible TFs: Rela	3.22506
			344	homer_NNATGASTCATH_Fra1 Description: Fra1(bZIP)/BT549-Fra1-ChIP-Seq(GSE46166)/Homer	3.22483

#	Feature	NES
345	hocomoco_CEBPG_MOUSE.H11MO.0.B Description: CEBPG_MOUSE Possible TFs: Cebpg	3.22389
346	scertf_spivak.GCN4 Description: spivak.GCN4	3.22233
347	hocomoco_FOSL2_HUMAN.H11MO.0.A Description: FOSL2_HUMAN Possible TFs: Fosl2	3.22084
348	hocomoco_FOSL1_HUMAN.H11MO.0.A Description: FOSL1_HUMAN Possible TFs: Fosl1	3.21998
349	taipale_cyt_meth_IRF9_NYGAAASYGAAACYN_FL_meth Description: IRF9 [IRF, CpG-meth] Possible TFs: Irf9	3.21701
350	factorbook_STAT2 Description: STAT2 Possible TFs: Stat2, Stat1	3.21686
351	cisbp_M4498 Description: Nfkb1[<i>gene ID: "ENSMUSG00000028163"</i> species: " <i>Mus musculus</i> " TF status: " <i>inferred</i> " TF family: " <i>Rel</i> " DBDs: " <i>RHD</i> "; RELA[<i>gene ID: "ENSG00000173039"</i> species: " <i>Homo sapiens</i> " TF status: " <i>direct</i> " TF family: " <i>Rel</i> " DBDs: " <i>RHD</i> "] Possible TFs: Rela	3.21522
352	hocomoco_FOSB_MOUSE.H11MO.0.A Description: FOSB_MOUSE Possible TFs: Fosb	3.20592
353	cisbp_M5864 Description: SPIB[<i>gene ID: "ENSG00000142539"</i> species: " <i>Homo sapiens</i> " TF status: " <i>direct</i> " TF family: " <i>Ets</i> " DBDs: " <i>Ets</i> "; Spib[<i>gene ID: "ENSMUSG00000008193"</i> species: " <i>Mus musculus</i> " TF status: " <i>inferred</i> " TF family: " <i>Ets</i> " DBDs: " <i>Ets</i> "] Possible TFs: Spib	3.20435
354	ENCFF001XZX Description: POLR2A ChIP-seq on 8-week mouse BMDM	3.20132
355	taipale_cyt_meth_JUN_NATGASTCATN_FL_meth Description: JUN [bZIP, CpG-meth] Possible TFs: Jun	3.19747
356	transfac_pro_M09021 Description: P\$VRN1_01: VRN1	3.19685
357	transfac_pro_M08891 Description: V\$NFKB1_Q4: NFKAPPAB Possible TFs: Nfkb1, Rela	3.19365
358	taipale_cyt_meth_DBP_NRTTAYGTAAYN_eDBD Description: DBP [bZIP] Possible TFs: Dbp	3.19146
359	transfac_pro_M01555 Description: F\$GCN4_02: Gcn4p	3.19138
360	flyfactorsurvey_slbo_SANGER_5_FBgn0005638 Description: slbo_SANGER_5_FBgn0005638	3.18849
361	transfac_public_M00495 Description: V\$BACH1_01: Bach1 Possible TFs: Bach1	3.18317
362	cisbp_M0322 Description: M0322	3.18051
363	cisbp_M4495 Description: Nfkb1[<i>gene ID: "ENSMUSG00000028163"</i> species: " <i>Mus musculus</i> " TF status: " <i>inferred</i> " TF family: " <i>Rel</i> " DBDs: " <i>RHD</i> "; RELA[<i>gene ID: "ENSG00000173039"</i> species: " <i>Homo sapiens</i> " TF status: " <i>direct</i> " TF family: " <i>Rel</i> " DBDs: " <i>RHD</i> "] Possible TFs: Rela	3.1802
364	homer_AGTTCAGTTTC_ISRE Description: ISRE(IRF)/ThioMac-LPS-Expression(GSE23622)/Homer	3.1759
365	hocomoco_JUNB_MOUSE.H11MO.0.A Description: JUNB_MOUSE Possible TFs: Junb	3.17348

#	Feature	NES
366	dbcorrd STAT3_ENCSR000DOX_1_m3 Description: STAT3 (ENCSR000DOX-1, motif 3) Possible TFs: Stat3	3.16918
367	swissregulon_sacCer_GCN4 Description: sacCer_GCN4	3.15941
368	cisbp_M5578 Description: IRF8[<i>gene ID: "ENSG00000140968"</i> species: " <i>Homo sapiens</i> " TF status: " <i>direct</i> " TF family: " <i>IRF</i> " DBDs: " <i>IRF</i> "] Possible TFs: Irf8	3.15879
369	taipale_tf_pairs_FOXO1_ELK1_RWYAACAGGAAGYN_CAP Description: FOXO1 [Fox] - ELK1 [ETS] Possible TFs: Foxo1, Elk1	3.15808
370	dbcorrd_SMARCB1_ENCSR000EDK_1_m1 Description: SMARCB1 (ENCSR000EDK-1, motif 1) Possible TFs: Smarcb1	3.15801
371	transfac_pro_M07600 Description: V\$CFOS_Q4: C-Fos Possible TFs: Fos	3.15722
372	transfac_pro_M01203 Description: V\$SPI1_01: SPI1 (PU1) Possible TFs: Spi1	3.15433
373	cisbp_M6230 Description: FOSL2[<i>gene ID: "ENSG00000075426"</i> species: " <i>Homo sapiens</i> " TF status: " <i>direct</i> " TF family: " <i>bZIP</i> " DBDs: " <i>bZIP_1</i> "] Possible TFs: Fosl2	3.15183
374	cisbp_M1928 Description: NFKB1[<i>gene ID: "ENSG00000109320"</i> species: " <i>Homo sapiens</i> " TF status: " <i>direct</i> " TF family: " <i>Rel</i> " DBDs: " <i>RHD</i> "] Possible TFs: Nfkb1	3.15011
375	hocomoco_TF65_MOUSE.H11MO.0.A Description: TF65_MOUSE Possible TFs: Rela	3.1498
376	cisbp_M0686 Description: Sfpi1[<i>gene ID: "ENSMUSG00000002111"</i> species: " <i>Mus musculus</i> " TF status: " <i>direct</i> " TF family: " <i>Ets</i> " DBDs: " <i>Ets</i> "; Spib[<i>gene ID: "ENSMUSG00000008193"</i> species: " <i>Mus musculus</i> " TF status: " <i>inferred</i> " TF family: " <i>Ets</i> " DBDs: " <i>Ets</i> "] Possible TFs: Spi1	3.14488
377	taipale_cyt_meth_DBP_NRTTAYGTAAYN_eDBD_meth Description: DBP [bZIP, CpG-meth] Possible TFs: Dbp	3.14409
378	cisbp_M4494 Description: Nfkb1[<i>gene ID: "ENSMUSG00000028163"</i> species: " <i>Mus musculus</i> " TF status: " <i>inferred</i> " TF family: " <i>Rel</i> " DBDs: " <i>RHD</i> "; RELA[<i>gene ID: "ENSG00000173039"</i> species: " <i>Homo sapiens</i> " TF status: " <i>direct</i> " TF family: " <i>Rel</i> " DBDs: " <i>RHD</i> "] Possible TFs: Rela	3.14347
379	cisbp_M0274 Description: Cebpd[<i>gene ID: "BAE29047.1"</i> species: " <i>Mus musculus</i> " TF status: " <i>direct</i> " TF family: " <i>bZIP</i> " DBDs: " <i>bZIP_1</i> "]	3.14277
380	cisbp_M4496 Description: Nfkb1[<i>gene ID: "ENSMUSG00000028163"</i> species: " <i>Mus musculus</i> " TF status: " <i>inferred</i> " TF family: " <i>Rel</i> " DBDs: " <i>RHD</i> "; RELA[<i>gene ID: "ENSG00000173039"</i> species: " <i>Homo sapiens</i> " TF status: " <i>direct</i> " TF family: " <i>Rel</i> " DBDs: " <i>RHD</i> "] Possible TFs: Rela	3.14144
381	hocomoco_FOS_HUMAN.H11MO.0.A Description: FOS_HUMAN Possible TFs: Fos	3.13878
382	taipale_IRF8_DBD_NCGAAACCGAAACY Description: IRF8 dimeric IRF DBD Possible TFs: Irf8	3.13839

#	Feature	NES	#	Feature	NES
383	cisbp_M6137 Description: Rel[<i>gene ID: "ENSMUSG00000020275"</i> species: " <i>Mus musculus</i> " TF status: "inferred" TF family: "Rel" DBDs: "RHD"]; Rela[<i>gene ID: "ENSMUSG00000024927"</i> species: " <i>Mus musculus</i> " TF status: "direct" TF family: "Rel" DBDs: "RHD"] Possible TFs: Rela	3.13776	401	cisbp_M4468 Description: Nfkb1[<i>gene ID: "ENSMUSG00000028163"</i> species: " <i>Mus musculus</i> " TF status: "inferred" TF family: "Rel" DBDs: "RHD"]; RELA[<i>gene ID: "ENSG00000173039"</i> species: " <i>Homo sapiens</i> " TF status: "direct" TF family: "Rel" DBDs: "RHD"] Possible TFs: Rela	3.114
384	taipale_cyt_meth_NR3C2_NGNACRNNNYGTNCN_eDBD_meth_repr Description: NR3C2 [Nuclear_receptor, CpG-meth] Possible TFs: Nr3c2	3.13706	402	transfac_pro_M00531 Description: V\$NERF_Q2: nerf Possible TFs: Elf2	3.1058
385	hocomoco_JUND_MOUSE.H11MO.0.A Description: JUND_MOUSE Possible TFs: Jund	3.13706	403	transfac_pro_M08929 Description: V\$JUNDFRA1_01: JUND:FRA-1 Possible TFs: Fos1	3.10322
386	dbcorrdB_CEBPB_ENCSR000EFM_1_m2 Description: CEBPB (ENCSR000EFM-1, motif 2) Possible TFs: Cebpb	3.13651	404	ENCF001XUP Description: H3K36me3 ChIP-seq on mouse C2C12 differentiated for 60 hours	3.09967
387	cisbp_M2108 Description: GCN4[<i>gene ID: "YEL009C"</i> species: " <i>Saccharomyces cerevisiae</i> " TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]	3.1362	405	hocomoco_ELF2_MOUSE.H11MO.0.C Description: ELF2_MOUSE Possible TFs: Elf2	3.09806
388	cisbp_M0296 Description: Fos[<i>gene ID: "ENSMUSG00000021250"</i> species: " <i>Mus musculus</i> " TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]; Fosb[<i>gene ID: "ENSMUSG00000003545"</i> species: " <i>Mus musculus</i> " TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"]; Fosl1[<i>gene ID: "ENSMUSG00000024912"</i> species: " <i>Mus musculus</i> " TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Fosl1	3.13542	406	homer_NAGAACAGNCTGTTCT_GRE Description: GRE(NR),IR3/A549-GR-ChIP-Seq(GSE32465)/Homer	3.09314
389	hocomoco_JUNB_HUMAN.H11MO.0.A Description: JUNB_HUMAN Possible TFs: Junb	3.13511	407	transfac_public_M00007 Description: V\$ELK1_01: Elk-1 Possible TFs: Elk1	3.08813
390	cisbp_M6484 Description: SPI1[<i>gene ID: "ENSG00000066336"</i> species: " <i>Homo sapiens</i> " TF status: "direct" TF family: "Ets" DBDs: "Ets"]; Spib[<i>gene ID: "ENSMUSG00000008193"</i> species: " <i>Mus musculus</i> " TF status: "inferred" TF family: "Ets" DBDs: "Ets"] Possible TFs: Spi1	3.13417	408	taipale_tf_pairs_TEAD4_CEBPD_NTTRCGYAANNNNNRGWATGY_CAP Description: TEAD4 [TEA] - CEBPD [bZIP] Possible TFs: Tead4, Cebpd	3.08446
391	hocomoco_ANDR_MOUSE.H11MO.0.A Description: ANDR_MOUSE Possible TFs: Ar	3.13346	409	cisbp_M3617 Description: NFE2[<i>gene ID: "ENSG00000123405"</i> species: " <i>Homo sapiens</i> " TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]; Nfe2[<i>gene ID: "ENSMUSG00000058794"</i> species: " <i>Mus musculus</i> " TF status: "inferred" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Nfe2	3.07954
392	transfac_pro_M08881 Description: V\$ETSLIKE_Q4: ETSLIKE Possible TFs: Fev, Etv2, Fli1, Ets1, Ets2, Erf, Erg, Gabpa	3.13221	410	swissregulon_hs_FEV.p2 Description: hs_FEV.p2 Possible TFs: Fev	3.06914
393	hocomoco_BATF_HUMAN.H11MO.1.A Description: BATF_HUMAN Possible TFs: Batf	3.13151	411	cisbp_M6119 Description: SPI1[<i>gene ID: "ENSG00000066336"</i> species: " <i>Homo sapiens</i> " TF status: "direct" TF family: "Ets" DBDs: "Ets"]; Spib[<i>gene ID: "ENSMUSG00000008193"</i> species: " <i>Mus musculus</i> " TF status: "inferred" TF family: "Ets" DBDs: "Ets"] Possible TFs: Spi1	3.06875
394	hocomoco_GCR_MOUSE.H11MO.0.A Description: GCR_MOUSE	3.12932	412	dbcorrdB_NR3C1_ENCSR000BJR_1_m1 Description: NR3C1 (ENCSR000BJR-1, motif 1) Possible TFs: Nr3c1	3.0675
395	jaspar_MA0303.1 Description: GCN4	3.12456	413	taipale_tf_pairs_ERF_CEBPD_RSMGGAANTTGCGYAAN_CAP Description: ERF [ETS] - CEBPD [bZIP] Possible TFs: Erf, Cebpd	3.06469
396	transfac_pro_M04685 Description: V\$NFE2_Q4: NF-E2 Possible TFs: Nfe2	3.12159	414	hocomoco_TF65_HUMAN.H11MO.0.A Description: TF65_HUMAN Possible TFs: Rela	3.05672
397	transfac_public_M00038 Description: F\$GCN4_01: Gcn4p	3.11971	415	ENCF001XYE Description: H3K27ac ChIP-seq on mouse embryonic fibroblast (MEF)	3.05589
398	cisbp_M4895 Description: crc[<i>gene ID: "FBgn0000370"</i> species: " <i>Drosophila melanogaster</i> " TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"]	3.11697	416	ENCF001XUT Description: CEBPB ChIP-seq on mouse C2C12	3.05539
399	cisbp_M4541 Description: JUND[<i>gene ID: "ENSG00000130522"</i> species: " <i>Homo sapiens</i> " TF status: "direct" TF family: "bZIP" DBDs: "bZIP_1"] Possible TFs: Jund	3.11666	417	taipale_tf_pairs_FLI1_FOXI1_RTAAACMGGAARYN_CAP Description: FLI1 [ETS] - FOXI1 [Fox] Possible TFs: Foxi1, Fli1	3.05437
400	transfac_pro_M03545 Description: V\$CREL_Q6: c-Rel Possible TFs: Rel	3.11525	418	dbcorrdB_STAT3_ENCSR000DZV_1_m1 Description: STAT3 (ENCSR000DZV-1, motif 1) Possible TFs: Stat3	3.05156
			419	ENCF001YDD Description: PSU mouse G1E-ER4 H3K4me1 ChIP-seq	3.04904

#	Feature	NES
420	tfdimers__MD00029 Description: M01003_forward_6_M01181_forward dimer: Helios A / Nkx3-2 Possible TFs: Nkx3-2, Ikzf2	3.04843
421	taipale_cyt_meth__IRF8_NYGAAASYGAAASYN_FL Description: IRF8 [IRF] Possible TFs: Irf8	3.04546
422	taipale_cyt_meth__ETV4_NCAGGAAGGAAGTN_FL_meth Description: ETV4 [ETS, CpG-meth] Possible TFs: Etv4	3.03303
423	dbcorrd__NR3C1_ENCSR000BHF_1_m1 Description: NR3C1 (ENCSR000BHF-1, motif 1) Possible TFs: Nr3c1	3.03257
424	transfac_pro__M00771 Description: V\$ETS_Q4: Ets Possible TFs: Fli1, Ets1, Ets2, Erf, Elk1, Elk4, Erg, Elf1, Elf2	3.0174
425	predrem__nrMotif728 Description: 251_fThymus-DS18382.M596	3.01459
426	factorbook__NR3C1 Description: NR3C1 Possible TFs: Nr3c1	3.01365
427	taipale__Ar_DBD_RRGNACANNNTGTNCYY_repr Description: Ar dimeric nuclearreceptor DBD Possible TFs: Ar	3.01131
428	transfac_pro__M00924 Description: V\$AP1_Q2_01: AP-1 Possible TFs: Fos, Fosb, Junb, Jun, Jund, Fosl1, Fosl2	3.01115
429	ENCFF001YBM Description: PSU mouse CH12 H3K4me1 ChIP-seq	3.01092
430	hocomoco__ELF3_HUMAN.H11MO.0.A Description: ELF3_HUMAN Possible TFs: Elf3	3.0074
431	homer__TGCTGAGTCA_Bach2 Description: Bach2(bZIP)/OCILy7-Bach2-ChIP-Seq(GSE44420)/Homer Possible TFs: Bach2	3.00396