

Supplementary Figure 1. Fatal brain relapse in osimertinib-treated, metastatic lung cancer mouse models.

(a) Quantitation of photon flux of brain versus rest of the body (representing extracranial sites such as bone and lymph nodes) by longitudinal imaging in mice from the experiments described in Fig. 1a-c involving the PC9-derived model. Days represent days after initial tumor-cell injection. Data is normalized to day 25 (the initial day of treatment). N = 4 for vehicle-treated mice, and n = 4 for osimertinib-treated mice. Data are representative of three independent experiments.

(b) Schematic representing the generation of brain-metastatic-derivative (BrM) cells from the EGFR-mutant H1650 parental cell line by the *in-vivo* selection method.

(c) Representative image of *ex-vivo* bioluminescence imaging of a brain collected from a mouse injected with the H1650 parental cell line (to generate the H1650 BrM line as described in panel (b)). The photon-flux scale is indicated on the right side. The data are representative of three independent experiments. The percentage of mice (n = 15) with brain and lung lesions is shown.

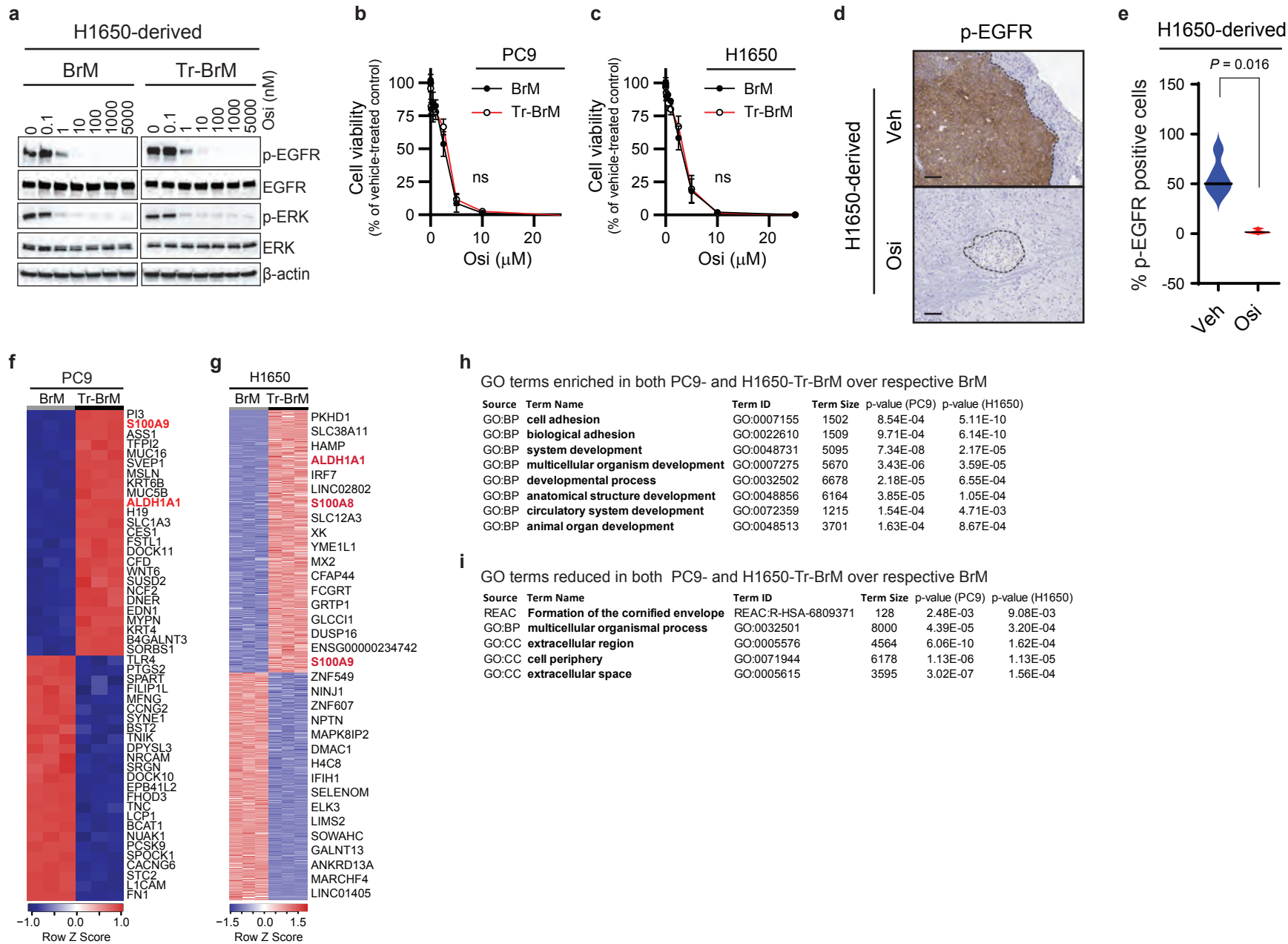
(d) Schematic representation of the human EGFR-mutant H1650-BrM *in-vivo* treatment model for metastatic EGFR-mutant lung cancer. Luciferase-labeled H1650-BrM cells were injected into the arterial circulation of immunodeficient mice via intracardiac injection to generate metastases, which were detected by bioluminescence imaging. At 25 days post tumor-cell injection, after confirmation of metastatic signal, mice were administered long-term treatment with either vehicle or osimertinib at 5 mg/kg body weight/day by oral gavage, 5 days per week, until the endpoint, which averaged to 4 months post tumor-cell injection.

(e) Kaplan–Meier plot for brain-metastasis-progression-free survival of mice injected with H1650-BrM cells followed by treatment with either vehicle (“Veh”) or osimertinib (“Osi”). Days elapsed represent days after initial tumor-cell injection. Data were analyzed using the log-rank test: $\chi^2 = 11.42$, d.f. = 1, $p = 0.0007$, n = 5 for vehicle-treated mice, and n = 6 for osimertinib-treated mice. The percentage of mice (n = 20) with brain and lung lesions post-osimertinib treatment is shown from multiple experiments.

(f) Kaplan–Meier plot for brain-metastasis-progression-free survival of mice injected with H1650-Tr-BrM cells followed by treatment with either vehicle or osimertinib. Data were analyzed using the log-rank test: $\chi^2 = 2.541$, d.f. = 1, p -value not significant (ns), n = 6 for vehicle-treated mice, and n = 4 for osimertinib-treated mice.

(g) Representative images of human cytokeratin 7 (CK7) immunohistochemistry in brain sections from mice injected with either H1650-BrM (upper panel) or H1650-Tr-BrM cells (lower panel) and treated with either vehicle (left panel) or osimertinib (right panel). Arrow points to the location of metastatic cells in the brain. Mice were euthanized at 60 days post tumor-cell injection. Scale bars, 200 μ m.

(h) Quantitative analysis of the percentage of brain tissue sections covered by metastasis from the experiment described in panel (g). Data are presented as mean values \pm SEM. P -values were determined by a two-tailed, unpaired Mann-Whitney test. For H1650-BrM, n = 5 for vehicle and n = 4 for osimertinib; for H1650-Tr-BrM, n = 5 for vehicle and n = 4 for osimertinib.



Supplementary Figure 2. Enrichment of S100A8/9 proteins in osimertinib-refractory cancer cells.

(a) Immunoblot analysis for EGFR pathway activation in H1650-BrM and H1650-Tr-BrM cells treated with the indicated doses of osimertinib and collected at 6 hours post treatment. Antibodies against phospho-EGFR (Tyr1068), phospho-ERK, total-EGFR, total-ERK and β -actin (loading control) were used. Data are representative of three independent experiments.

(b) *In-vitro* cell viability assay for comparing osimertinib sensitivity between PC9-BrM and PC9-Tr-BrM derivatives. Cell viability values are normalized to the vehicle (DMSO)-treated control, presented as mean values \pm SEM, and representative of three independent experiments.

(c) *In-vitro* cell viability assay for comparing osimertinib-sensitivity between H1650-BrM and H1650-Tr-BrM derivatives. Cell viability values are normalized to the vehicle (DMSO)-treated control, presented as mean values \pm SEM, and representative of three independent experiments.

(d) Brain sections from mice injected with H1650-BrM cells described in Supplementary Fig. 1g-h were immunostained using an antibody against phospho-EGFR (Tyr1068). H1650-BrM cells were injected into the arterial circulation of immunodeficient mice via intracardiac injection to generate metastases. Treatment was started at 25 days post tumor-cell injection with either vehicle or osimertinib at 5 mg/kg body weight/day by oral gavage, administered 5 days per week, and continued until endpoint at two months post tumor-cell injection. Mice were then euthanized, and brain tissues were subsequently processed for histological analysis. Representative images of immunohistochemical staining for phospho-EGFR in brain sections are shown. Dotted lines surround the location of metastatic cells in the brain. Scale bars, 100 μ m.

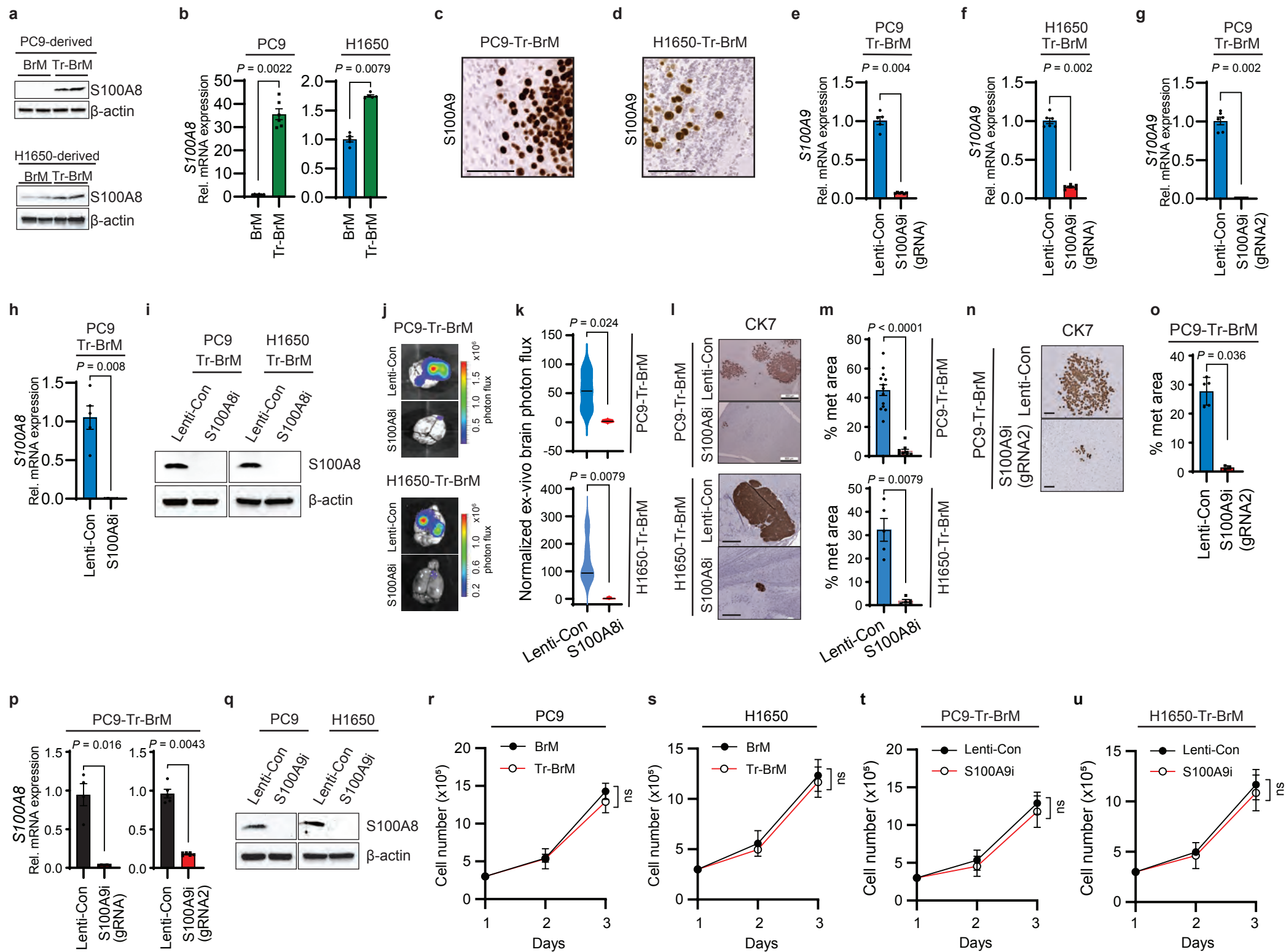
(e) The pEGFR-stained brain sections from the H1650-derived model described in panel (d) were quantitated using automated Qu-Path software to count pEGFR-positive cancer cells that were identified by setting a threshold for signal intensity (1+). Data are represented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test: *n* = 5 for vehicle-treated mice and *n* = 5 for osimertinib-treated mice.

(f) Heatmap of the top 25 significantly up- and down-regulated genes in PC9-Tr-BrM cells compared to PC9-BrM cells. Normalized gene expression above the row mean is indicated by progressively darker shades of red, and normalized gene expression below the row mean is indicated by progressively darker shades of blue. Genes with an adjusted *p*-value of less than 1.0×10^{-4} and an absolute value of the log₂ fold change of greater than 2.4 were considered significant.

(g) Heatmap of the top significantly up-regulated (2133) and down-regulated (2460) genes in H1650-Tr-BrM versus H1650-BrM cells is shown. Normalized gene expression above the row mean is indicated by progressively darker shades of red, and normalized gene expression below the row mean is indicated by progressively darker shades of blue. Genes with an adjusted *p*-value of less than 1.0×10^{-4} and an absolute value of the log₂ fold change of greater than 0.5 were considered significant. Approximate positions of the indicated genes are shown in the heatmap.

(h) GO terms identified as significant and convergent via GO-term analysis of the top 300 up-regulated genes in PC9- and H1650-Tr-BrM lines compared to their respective controls by G:Profiler analysis.

(i) GO terms identified as significant and convergent via GO-term analysis of the top 300 down-regulated genes in PC9- and H1650-Tr-BrM lines compared to their respective controls by G:Profiler analysis.



Supplementary Figure 3. S100A8/9 as key mediators of brain relapse in osimertinib-refractory lung cancer cells.

(a) Immunoblot analysis of lysates from BrM and Tr-BrM cells from both PC9- and H1650-derived models using antibodies against S100A8 and β -actin (loading control). Images are representative of three independent experiments.

(b) *S100A8* expression was determined by quantitative RT-PCR (qRT-PCR) analysis in PC9- and H1650-derived BrM and Tr-BrM cells. GAPDH was used as an internal control. Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test. For PC9, *n* = 6 for BrM, and *n* = 6 for Tr-BrM. For H1650, *n* = 5 for BrM, and *n* = 5 for Tr-BrM.

(c-d) Representative images of brain sections stained with an antibody against human S100A9 from mice bearing brain metastases when injected with PC9-Tr-BrM cells (c) and H1650-Tr-BrM cells (d) and collected 7 weeks post tumor-cell injection. Scale bar, 100 μ m.

(e) S100A9 expression was determined by qRT-PCR analysis in PC9-Tr-BrM cells expressing either lenti-control ("Lenti-Con") or S100A9i. GAPDH was used as an internal control. Data are presented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test, *n* = 5 for Lenti-Con, and *n* = 6 for S100A9i.

(f) *S100A9* expression was determined by qRT-PCR analysis in H1650-Tr-BrM cells expressing either Lenti-Con or S100A9i. GAPDH was used as an internal control. Data are presented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test, *n* = 6 for Lenti-Con and *n* = 6 for S100A9i.

(g) *S100A9* expression was determined by qRT-PCR analysis in PC9-Tr-BrM cells expressing either Lenti-Con or a second guide-RNA for S100A9i (referred to as "S100A9i (gRNA2)" throughout the supplemental figures). GAPDH was used as an internal control. Data are presented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test, *n* = 6 for Lenti-Con and *n* = 6 for S100A9i-gRNA2.

(h) *S100A8* expression was determined by qRT-PCR analysis in PC9-Tr-BrM cells expressing either Lenti-Con or S100A8i. GAPDH was used as an internal control. Data are presented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test: *n* = 5 for Lenti-Con, and *n* = 5 for S100A8i.

(i) Immunoblot analyses of lysates from PC9- and H1650-derived Tr-BrM cells expressing either Lenti-Con or S100A8i using antibodies against S100A8 and β -actin (loading control). Data is representative of three independent experiments.

(j) *Ex-vivo* photon flux of brains from mice injected with either PC9- or H1650-derived Tr-BrM cells expressing either Lenti-Con or S100A8i was determined by bioluminescence imaging. Mice were collected at 7 weeks post tumor-cell injection. The photon-flux scale is indicated on the right side of the image.

(k) Violin plots depicting the normalized photon flux of brains imaged *ex-vivo* that are represented in panel (j). The normalized photon flux for brain was calculated by dividing the photon flux from brain collected *ex-vivo* by the total photon flux at day 0 (i.e., the day of injection) and multiplying that value by 100. Data are presented as mean values \pm SEM. *N* = 6 mice for PC9-Tr-BrM-Lenti-Con, *n* = 3 for PC9-Tr-BrM-S100A8i, *n* = 5 per group for both H1650-Tr-BrM-Lenti-Con and H1650-Tr-BrM-S100A8i. The *p*-values were determined by a two-tailed, unpaired Mann-Whitney test.

(l) Representative images of CK7 immunohistochemistry in brain sections from mice injected with either PC9- or H1650-derived Tr-BrM cells expressing either Lenti-Con or S100A8i. Mice were harvested at 7 weeks post tumor-cell injection. Scale bars, 200 μm .

(m) Quantitative analysis of the percentage of CK7-immunostained brain sections covered by metastasis that are represented in panel (l). Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test. *N* = 5 per group for both PC9 and H1650-derived Tr-BrM-Lenti-Con and PC9-Tr-BrM-S100A8i.

(n) Representative images of CK7 immunohistochemistry in brain sections from mice injected with PC9-Tr-BrM-Lenti-Con cells or PC9-Tr-BrM-S100A9i-gRNA2 cells. Mice were harvested at 7 weeks post tumor-cell injection. Scale bars, 100 μm .

(o) Quantitative analysis of the percentage of CK7-immunostained brain sections covered by metastasis from the experiment represented in panel (n). Data are presented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test: *n* = 5 for PC9-Tr-BrM-Lenti-Con, and *n* = 3 for PC9-Tr-BrM-S100A9i-gRNA2.

(p) *S100A8* expression was determined by qRT-PCR analysis in PC9-Tr-BrM cells expressing either Lenti-Con, S100A9i (left graph) or S100A9i-gRNA2 (right graph). GAPDH was used as an internal control. Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test. For the left graph, *n* = 4 for PC9-Tr-BrM-Lenti-Con, and *n* = 5 for PC9-Tr-BrM S100A9i. For the right graph, *n* = 5 for PC9-Tr-BrM-Lenti-Con and *n* = 6 for PC9-Tr-BrM-S100A9i-gRNA2.

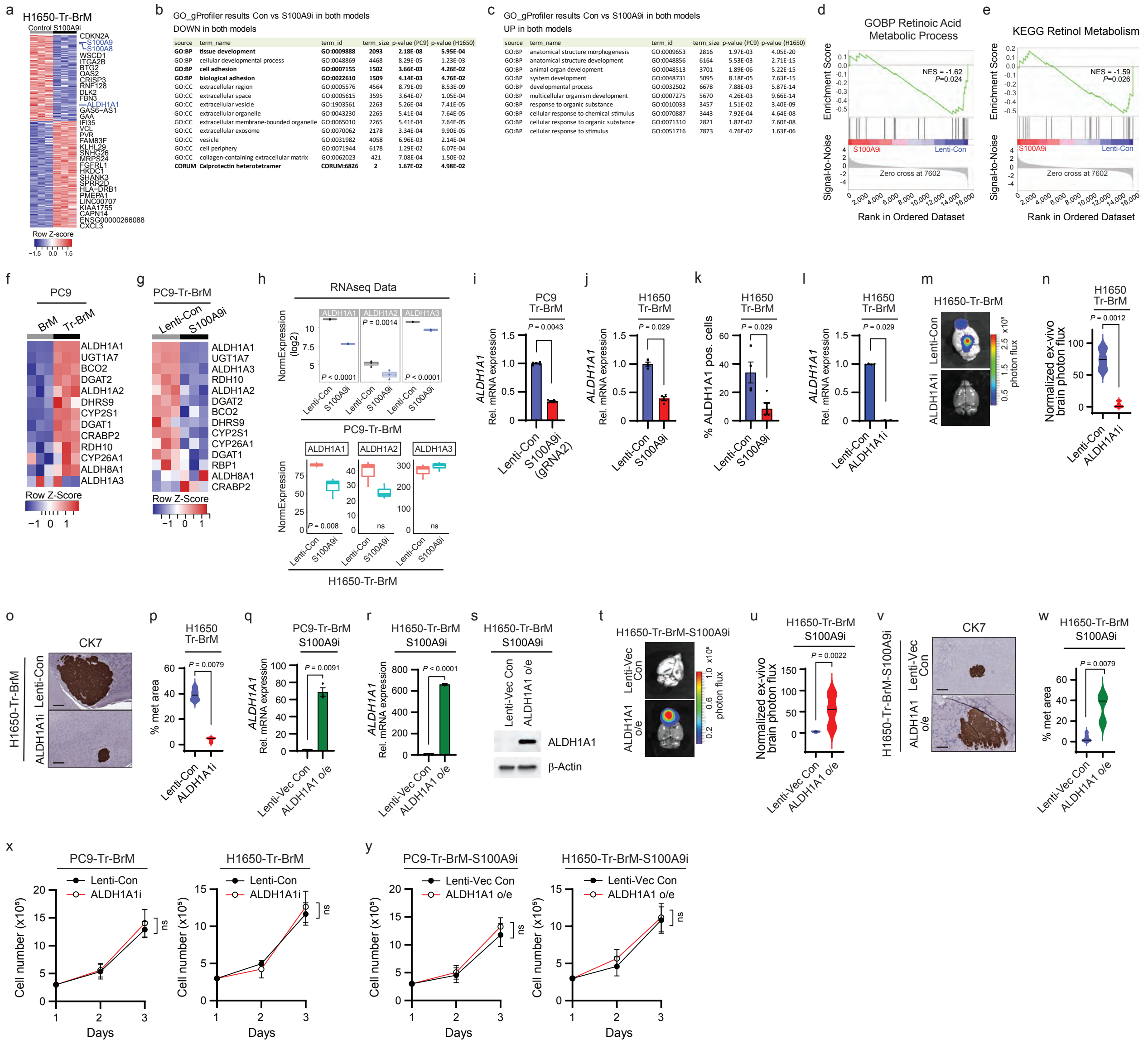
(q) Immunoblot analysis of lysates from PC9- and H1650-derived Tr-BrM cells expressing either Lenti-Con or S100A9i using antibodies against S100A8 and β -actin (loading control). Data are representative of three independent experiments.

(r) *In-vitro* cell proliferation assay comparing PC9-BrM and PC9-Tr-BrM cells. Data are presented as the mean cell number \pm SEM and are representative of three independent experiments.

(s) *In-vitro* cell proliferation assay comparing H1650-BrM and H1650-Tr-BrM cells. Data are presented as the mean cell number \pm SEM and are representative of three independent experiments.

(t) *In-vitro* cell proliferation assay comparing PC9-Tr-BrM-Lenti-Con and PC9-Tr-BrM-S100A9i cells. Data are presented as the mean cell number \pm SEM and are representative of three independent experiments.

(u) *In-vitro* cell proliferation assay comparing H1650-Tr-BrM-Lenti-Con and H1650-Tr-BrM-S100A9i cells. Data are presented as the mean cell number \pm SEM and are representative of three independent experiments.



Supplementary Figure 4. Down-regulation of ALDH1A1 in brain metastatic cells upon S100A9 repression.

(a) Heatmap of the top 855 significantly up-regulated (473) and down-regulated (382) genes in H1650-Tr-BrM-derived S100A9i cells versus Lenti-Control cells ("Control"). Normalized gene expression above the row mean is indicated by progressively darker shades of red, and normalized gene expression below the row mean is indicated by progressively darker shades of blue. Genes with an adjusted p -value of less than 1.0×10^{-3} and an absolute value of the log₂ fold change of greater than 1.5 were considered significant. Approximate positions of the indicated genes in the heatmap are shown.

(b) GO terms identified as significant and convergent via GO-term analysis of the top 300 down-regulated genes upon S100A9 repression in the PC9- and H1650-derived Tr-BrM cell lines by G:Profiler Analysis.

(c) GO terms identified as significant and convergent via GO-term analysis of the top 300 up-regulated genes upon S100A9 repression in the PC9- and H1650-derived cell lines by G:Profiler Analysis.

(d-e) Gene set enrichment plots for GOBP Retinoic Acid Metabolism Process and KEGG Retinol Metabolism signatures from the RNA-seq expression profiling data comparing PC9-Tr-BrM-S100A9i to PC9-Tr-BrM-Lenti-Con cells in Fig. 5b. Genes are ranked according to their expression in PC9-Tr-BrM-S100A9i cells from left to right. A positive normalized enrichment score (NES) indicates signature enrichment in PC9-Tr-BrM-S100A9i cells, and a negative normalized enrichment score indicates signature enrichment in PC9-Tr-BrM-Lenti-Con cells.

(f-g) Heatmaps of key retinoic acid metabolism genes in the PC9-BrM versus PC9-Tr-BrM RNA-seq datasets from Supplementary Fig. 2f and in the PC9-Tr-BrM-Lenti-Con versus PC9-Tr-BrM-S100A9i datasets from Fig. 5b. Shown here are the genes comprising the combined leading edges from both the GOBP Retinoic Acid Metabolism Process and the KEGG Retinol Metabolism gene sets in both the PC9-BrM-versus-PC9-Tr-BrM and the PC9-Tr-BrM-Lenti-Con-versus-PC9-Tr-BrM-S100A9i RNA-seq datasets. All leading-edge genes with detectable expression levels in the respective RNA-seq datasets were included in both (f) and (g). Normalized gene expression above the row mean is indicated by progressively darker shades of red, and normalized gene expression below the row mean is indicated by progressively darker shades of blue.

(h) Boxplots of normalized gene expression of *ALDH1A1*, *ALDH1A2* and *ALDH1A3* in both PC9- and H1650-derived Tr-BrM-Lenti-Con and Tr-BrM-S100A9i cells (PC9 model shown as log₂-normalized expression and H1650 as normalized expression). Horizontal lines indicate the 25th and 75th quartiles and the median, and whiskers indicate the minimum and maximum values. P -values represent the adjusted p -value (Wald test) for the differences in expression of each gene between PC9- and H1650-derived Tr-BrM-S100A9i and Tr-BrM-Lenti-Con cells.

(i) *ALDH1A1* expression was determined by qRT-PCR analysis in PC9-Tr-BrM cells expressing either Lenti-Con or S100A9i-gRNA2. GAPDH was used as an internal control. Data are presented as mean values \pm SEM. The p -value was determined by a two-tailed, unpaired Mann-Whitney test, $n = 6$ for Lenti-Con, and $n = 6$ for S100A9i-gRNA2.

(j) *ALDH1A1* expression was determined by qRT-PCR analysis in H1650-Tr-BrM cells expressing either Lenti-Con or S100A9i. GAPDH was used as an internal control. Data are presented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test, *n* = 4 for Lenti-Con and *n* = 4 for S100A9i.

(k) Quantitative analysis of the *ALDH1A1*-positive cells from brain sections (that were stained with an antibody against *ALDH1A1*) taken from mice injected with H1650-Tr-BrM cells expressing either Lenti-Con or S100A9i and collected at 7 weeks post tumor-cell injection. Immunostained sections were counted using the Qu-Path software where positively stained cells were identified by setting a threshold for signal intensity (1+). Data are presented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test: *n*=4 for Lenti-Con, and *n*=4 for S100A9i.

(l) *ALDH1A1* expression was determined by qRT-PCR analysis in H1650-Tr-BrM cells expressing either Lenti-Con or *ALDH1A1i*. GAPDH was used as an internal control. Data are presented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test: *n* = 4 for Lenti-Con, and *n* = 4 for *ALDH1A1i*.

(m) *Ex-vivo* photon flux of brains from mice injected with H1650-Tr-BrM cells expressing either Lenti-Con or *ALDH1A1i* was determined by bioluminescence imaging. Mice were collected at 7 weeks post tumor-cell injection. The photon flux scale is indicated on the right side of the image.

(n) Violin plots depicting normalized photon flux of brains imaged *ex-vivo* from the mice described in panel (m). The normalized photon flux for brain was calculated by dividing the photon flux from brain collected *ex-vivo* by the total photon flux at day 0 (i.e., the day of injection) and multiplying that value by 100. Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test: *n* = 6 for H1650-Tr-BrM-Lenti-Con, and *n* = 7 for H1650-Tr-BrM-*ALDH1A1i*.

(o) Representative images of CK7 immunohistochemistry in brain sections from mice injected with H1650-derived Tr-BrM cells expressing either Lenti-Con or *ALDH1A1i*. Mice were euthanized at 7 weeks post tumor-cell injection. Scale bars, 200 μ m.

(p) Quantitative analysis of the percentage of CK7-immunostained brain sections covered by metastasis that are represented in panel (o). Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test: *n* = 5 for H1650-Tr-BrM-Lenti-Con, and *n* = 5 for H1650-Tr-BrM-*ALDH1A1i*.

(q) *ALDH1A1* expression was determined by qRT-PCR analysis in PC9-Tr-BrM-S100A9i cells expressing either lenti-vector control ("Lenti-Vec Con") or *ALDH1A1* cDNA ("*ALDH1A1 o/e*"). GAPDH was used as an internal control. Data are presented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test, *n* = 9 for Lenti-Vec Con, and *n* = 3 for *ALDH1A1 o/e*.

(r) *ALDH1A1* expression was determined by qRT-PCR analysis in H1650-Tr-BrM-S100A9i cells expressing either Lenti-Vec Con or *ALDH1A1 o/e*. GAPDH was used as an internal control. Data are presented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test, *n* = 3 for Lenti-Vec-Con, and *n* = 3 for *ALDH1A1 o/e*.

(s) Immunoblot analyses of lysates from H1650-Tr-BrM-S100A9i cells expressing either Lenti-Vec Con or ALDH1A1 o/e using antibodies against ALDH1A1 and β -actin (loading control). Data is representative of three independent experiments.

(t) *Ex-vivo* photon flux of brains from mice injected with H1650-Tr-BrM-S100A9i cells expressing either Lenti-Vec Con or ALDH1A1 o/e was determined by bioluminescence imaging. Mice were collected at 7 weeks post tumor-cell injection. The photon flux scale is indicated on the right side of the image.

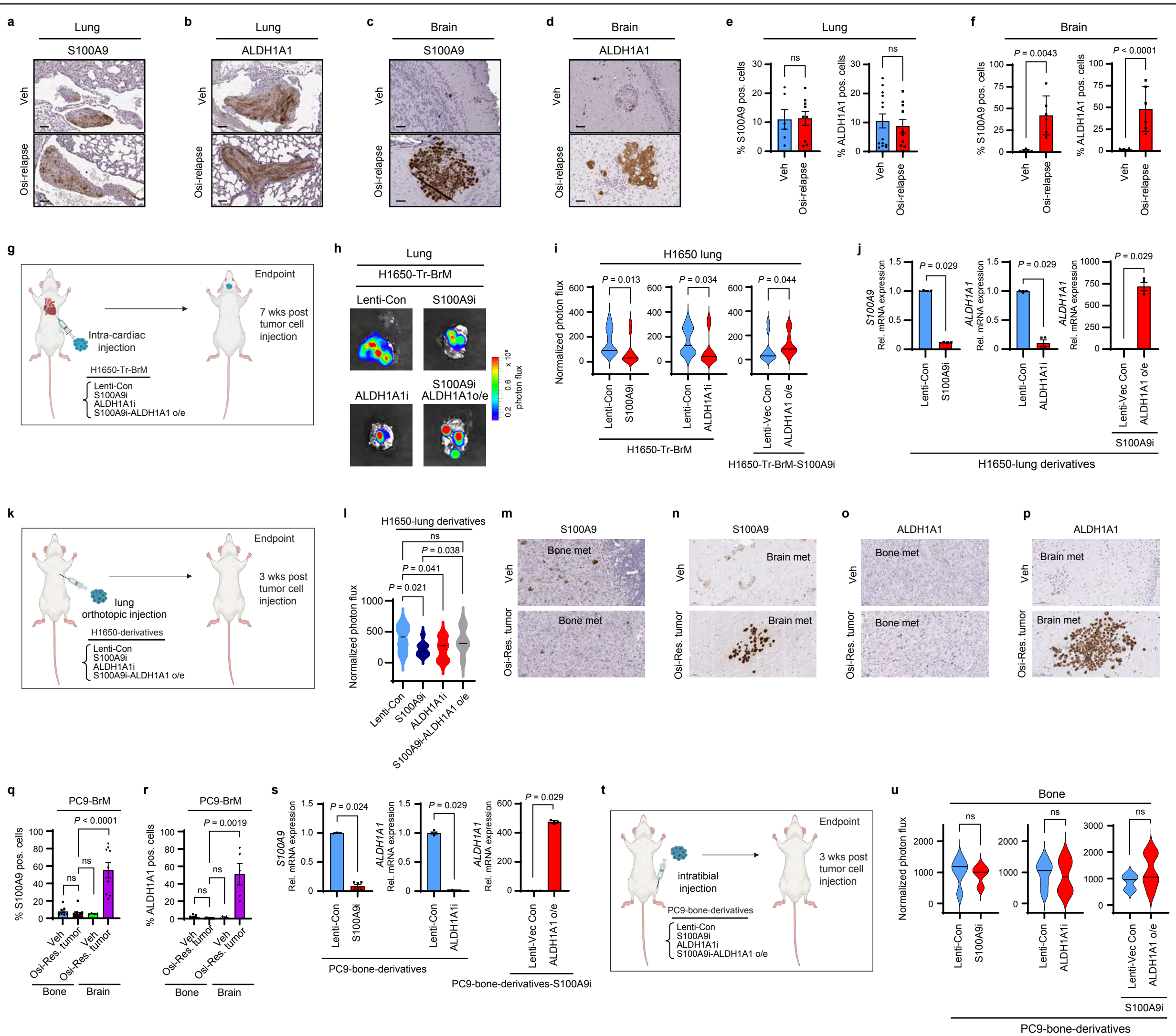
(u) Violin plots depicting normalized photon flux of brains imaged *ex vivo* from the mice represented in (t). The normalized photon flux for brain was calculated by dividing the photon flux from brain collected *ex-vivo* by the total photon flux at day 0 (i.e., the day of injection) and multiplying that value by 100. Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test: $n = 6$ for Lenti-Vec-Con, and $n = 6$ for ALDH1A1o/e.

(v) Representative images of CK7 immunohistochemistry in brain sections from mice injected with either H1650-Tr-BrM-S100A9i-Lenti-Vec Con cells (upper panel) or H1650-Tr-BrM-S100A9i-ALDH1A1 o/e cells (lower panel). Mice were euthanized at 7 weeks post tumor-cell injection. Scale bars, 200 μ m.

(w) Quantitative analysis of the percentage of CK7-immunostained brain sections covered by metastasis that are represented in panel (v). Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test: $n = 5$ for Lenti-Vec-Con, and $n = 5$ for ALDH1A1 o/e.

(x) *In-vitro* cell proliferation assay of PC9-Tr-BrM cells expressing either Lenti-Con or ALDH1A1i guide-RNAs (left panel) and H1650-Tr-BrM cells expressing either Lenti-Con or ALDH1A1i guide-RNAs (right panel). Data are presented as the mean cell number \pm SEM and are representative of three independent experiments.

(y) *In-vitro* cell proliferation assay of PC9-Tr-BrM-S100A9i cells expressing either Lenti-Vec Con or ALDH1A1 o/e (left panel) and H1650-Tr-BrM-S100A9i cells expressing either Lenti-Vec Con or ALDH1A1 o/e (right panel). Data are presented as the mean cell number \pm SEM and are representative of three independent experiments.



Supplementary Figure 5. Site-specific effects of the S100A9-ALDH1A1 axis.

(a-f) Immunostaining analysis of S100A9 (a and c) or ALDH1A1 (b and d) on lung (a and b) and brain (c and d) tissue sections from mice injected with H1650-BrM cells and treated with either vehicle (“Veh”, top panels) or upon relapse post osimertinib treatment (“Osi-relapse”, bottom panels). Cells were injected into the arterial circulation of immunodeficient mice via intracardiac injection. After metastatic signal was detected by bioluminescence imaging, treatment was administered at 25 days post tumor-cell injection with either vehicle or osimertinib at 5 mg/kg body weight/day by oral gavage, 5 days per week. Brain and lung tissues were collected at endpoint (2 months for the vehicle group and 4 months post tumor-cell injection for the Osi-relapse group). Scale bars, 50 μ m. Data are representative of 3 independent experiments.

(e-f) Quantitative analysis of the S100A9- and ALDH1A1-positive cells stained in (a-d). Immunostained sections were counted using the Qu-Path software where positively stained cells were identified by setting a threshold for signal intensity (1+). Data are presented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test. For S100A9-positive lung lesions: *n* = 6 for Veh, *n* = 9 for Osi-relapse. For ALDH1A1-positive lung lesions: *n* = 14 for Veh, *n* = 10 for Osi-relapse. For S100A9-positive brain lesions: *n* = 5 for Veh, *n* = 6 for Osi-relapse. For ALDH1A1-positive brain lesions: *n* = 15 for Veh, *n* = 6 for Osi-relapse.

(g) Schematic representation of the experimental protocol for injecting H1650-Tr-BrM cells stably expressing either Lenti-Con, S100A9i, or ALDH1A1i guide-RNAs, or S100A9i guide-RNA plus ALDH1A1 o/e, via intracardiac injection. Mice were euthanized at 7 weeks post tumor-cell injection.

(h) *Ex-vivo* photon flux of lungs from mice injected with H1650-Tr-BrM cells expressing either Lenti-Con, S100A9i, ALDH1A1i, or S100A9i plus ALDH1A1 o/e was determined by bioluminescence imaging. Lungs were collected from mice of the indicated groups at 7 weeks post tumor-cell injection. The photon flux scale is indicated on the right side of the image.

(i) Violin plots depicting normalized photon flux of lungs imaged *ex-vivo* from the mice described in panel (h). The normalized photon flux for lung was calculated by dividing the photon flux from lung collected *ex-vivo* by the total photon flux at day 0 (i.e., the day of injection) and multiplying that value by 100. Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test. Left graph: *n* = 12 for Lenti-Con, *n* = 10 for S100A9i. Middle graph: *n* = 14 for Lenti-Con, *n* = 10 for ALDH1A1i. Right graph: *n* = 10 for S100A9i/Lenti-Vec Con, *n* = 9 for S100A9i/ALDH1A1 o/e.

(j) Expression of S100A9 and ALDH1A1 was determined by qRT-PCR analysis in H1650-lung-derivatives expressing either Lenti-Con or S100A9i guide-RNAs (left most panel), either Lenti-Con or ALDH1A1i guide-RNAs (middle panel), and either S100A9i/Lenti-Vec Con or S100A9i/ALDH1A1 o/e (right panel). GAPDH was used as an internal control. Data are presented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test: *n* = 4 per group for all panels.

(k) Schematic representation of the experimental protocol for lung orthotopic injections. H1650-Tr-BrM-lung derivatives stably expressing either Lenti-Con, S100A9i, ALDH1A1i, or S100A9i plus ALDH1A1 o/e were injected in the lung (intrathoracic injections, labeled as “lung orthotopic injection” in the figure). Mice were euthanized at 21 days post tumor-cell injection for analysis.

(l) Violin plot depicting normalized photon flux of lungs imaged *ex-vivo* from the experiment described in panel (k). The normalized photon flux for lung was calculated by dividing the photon flux from lung collected *ex-vivo* by the total photon flux at day 0 (i.e., the day of injection) and multiplying that value by 100. Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test: *n* = 8 for Lenti-Con, *n* = 12 for S100A9i, *n* = 11 for ALDH1A1i and *n* = 7 for S100A9i plus ALDH1A1 o/e.

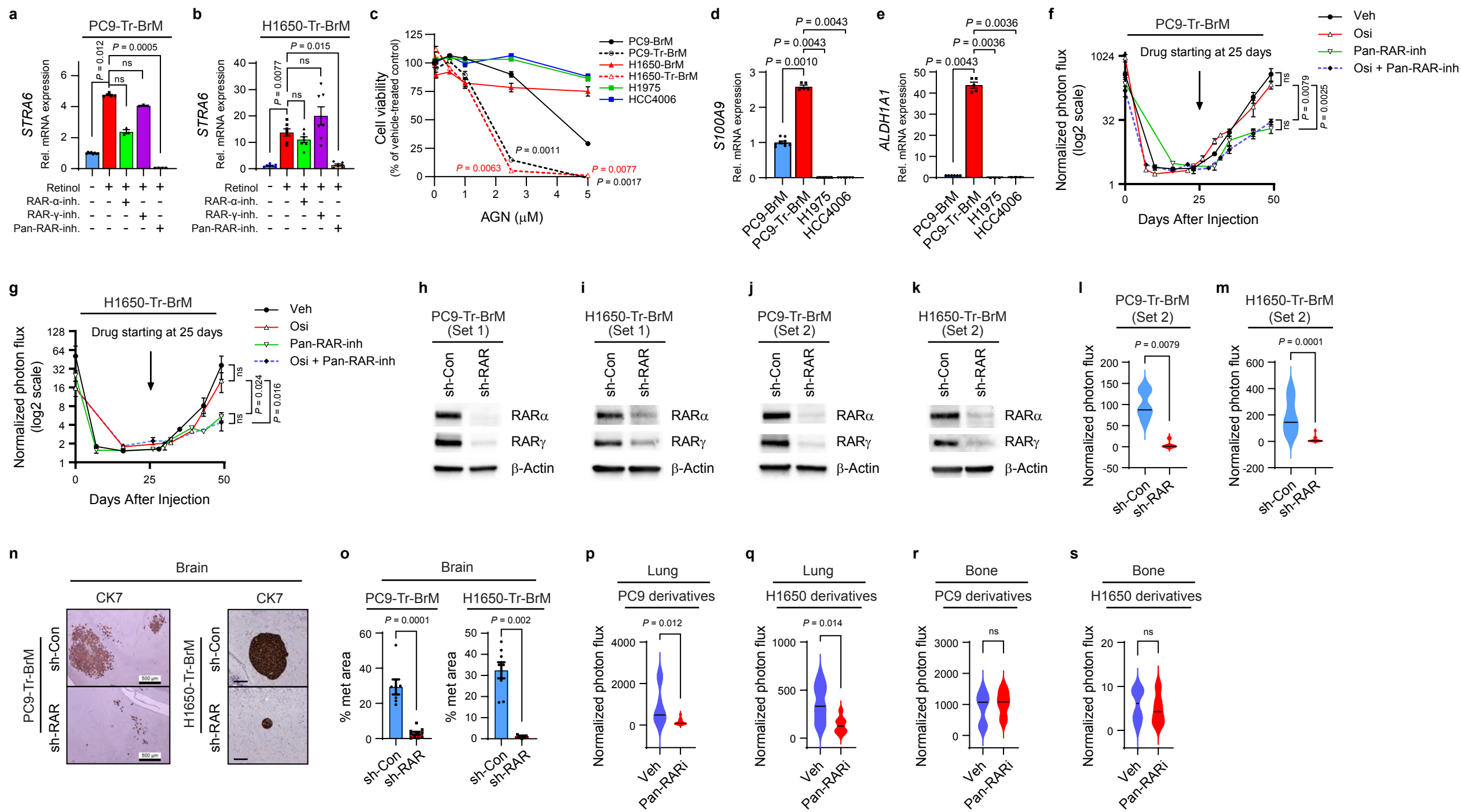
(m-p) Representative images of bone and brain sections from vehicle- and osimertinib-treated mice that were stained with S100A9 (m-n) or ALDH1A1 antibodies (o-p). PC9-BrM cells were injected into the arterial circulation of immunodeficient mice via intracardiac injection. After metastatic signal was detected by bioluminescence imaging, treatment was administered at 25 days post tumor-cell injection with either vehicle or osimertinib at 5 mg/kg body weight/day by oral gavage, 5 days per week. Brain and lung tissues were collected at endpoint (2 months in the “Veh” group and 5 months post tumor-cell injection in the osimertinib-residual-tumor group (abbreviated as “Osi-Res. tumor”). The images are representative of 10 mice analyzed per group. Scale bars, 50 μ m (m-o) and 100 μ m (p).

(q-r) Immunostained images described in panels (m-p) were quantitated using automated Qu-Path software to count S100A9- or ALDH1A1-positive cancer cells that were identified by setting a threshold for signal intensity (1+). Data are presented as mean values \pm SEM. *P*-values (indicated in the figures) were determined by a two-tailed, unpaired Mann-Whitney test. For S100A9, *n* = 9 for PC9/Bone/Veh metastases, *n* = 13 for PC9/Bone/Osi-Res. tumor metastases. *n* = 4 for PC9/Brain/Veh metastases, and *n* = 9 for PC9/Brain/Osi-Res. tumor metastases. For ALDH1A1, *n* = 7 for PC9/Bone/Veh metastases, *n* = 8 for PC9/Bone/Osi-Res. tumor metastases, *n* = 5 for PC9/Brain/Veh metastases, and *n* = 5 for PC9/Brain/Osi-Res. tumor metastases.

(s) Expression of *S100A9* and *ALDH1A1* was determined by qRT-PCR analysis in PC9-bone-derivative cells stably expressing either Lenti-Con, S100A9i, or ALDH1A1i guide-RNAs, or S100A9i plus either Lenti-Vec Con or ALDH1A1 o/e. GAPDH was used as an internal control. Data are represented as mean values \pm SEM. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test. Left graph: *n* = 3 for Lenti-Con, *n* = 6 for S100A9i. Middle graph: *n* = 4 for Lenti-Con, *n* = 4 for ALDH1A1i. Right graph: *n* = 4 for S100A9i plus Lenti-Vec Con, *n* = 4 for S100A9i plus ALDH1A1 o/e.

(t) Schematic representation of the experimental protocol for intratibial injections of PC9-Tr-BrM-bone derivative cells stably expressing either Lenti-Con, S100A9i, or ALDH1A1i guide-RNAs, or S100A9i plus ALDH1A1 o/e. Mice were euthanized at 21 days post tumor-cell injection.

(u) Violin plots depicting normalized photon flux of bone imaged from the mice described in panel (t). The normalized photon flux for bone was calculated by dividing the photon flux from bone collected *ex-vivo* by the total photon flux at day 0 (i.e., the day of injection) and multiplying that value by 100. Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test. Left graph: *n* = 5 for Lenti-Con, *n* = 4 for S100A9i. Middle graph: *n* = 5 for Lenti-Con, *n* = 4 for ALDH1A1i. Right graph: *n* = 4 for S100A9i plus Lenti-Vec Con, *n* = 4 for S100A9i plus ALDH1A1 o/e.



Supplementary Figure 6. Sensitivity of osimertinib-refractory brain metastases to RAR inhibition

(a-b) *STRA6* expression was determined by qRT-PCR analysis of Tr-BrM cells from the PC9 model (a) and H1650 model (b), which were treated with either DMSO, retinol or retinol plus different retinoic acid receptor antagonists. Cells were cultured for two days in serum-free RPMI medium with DMSO alone, with 5 μ M retinol alone, or medium with both 5 μ M retinol and 5 μ M antagonists (either the RAR- α antagonist BMS-195614, the RAR- γ antagonist MM-11253, or the pan-RAR antagonist AGN-194310). After two days of culturing, cells were washed and collected for RNA analysis. GAPDH was measured as an internal control. Data are presented as mean values \pm SEM. *P*-values were determined by the Kruskal-Wallis test. For the PC9 model (a), *n* = 8 for vehicle; *n* = 5 for retinol; *n* = 3 for retinol plus the RAR- α inhibitor (“RAR- α -inh.”); *n* = 3 for retinol plus the RAR- γ inhibitor (“RAR- γ -inh.”); *n* = 4 for retinol plus the pan-RAR inhibitor (“pan-RAR-inh.”). For the H1650 model (b), *n* = 7 for all groups.

c) Cell viability assay for comparing *in-vitro* sensitivity of the indicated cell lines to pan-RAR-inhibition (AGN-194310, abbreviated as “AGN”). Cell viability values are normalized to the vehicle (DMSO)-treated control, presented as the mean values \pm SEM, and representative of three independent experiments. *P*-values were determined by two-way ANOVA with Tukey’s test.

(d-e) *S100A9* (d) and *ALDH1A1* (e) expression was determined by qRT-PCR analysis in the indicated cell lines. PC9-Tr-BrM cells were used as a positive control, and all cell lines were normalized to PC9-BrM. GAPDH was used as an internal control. Data are presented as mean values \pm SEM. Data are representative of three independent experiments. The *p*-value was determined by a two-tailed, unpaired Mann-Whitney test. For (d), *n* = 9, 5, 6 and 6 for PC9-BrM, PC9-Tr-BrM, H1975 and HCC4006 respectively. For (e), *n* = 6, 5, 3 and 3 for PC9-BrM, PC9-Tr-BrM, H1975 and HCC4006, respectively.

(f-g) Quantitation of photon flux (normalized to the initial day of injection) of brain by longitudinal imaging in mice injected with either PC9-Tr-BrM (f) or H1650-Tr-BrM (g) via intracardiac injections. At 25 days post tumor-cell injection after confirmation of metastatic signal, mice were administered long-term treatment with either 1) vehicle (“Veh”), 2) osimertinib (“Osi”, 5 mg/kg body weight/day), 3) AGN194310 (“Pan-RAR-inh”, 0.5 mg/kg body weight/day), or 4) osimertinib (5 mg/kg body weight/day) plus AGN194310 (0.5 mg/kg body weight/day) by oral gavage, 5 days per week, until the endpoint (7 weeks post tumor-cell injection). For panel (f): *n* = 5 for Veh, *n* = 5 for Osi, *n* = 7 for Pan-RAR-inh, and *n* = 5 for Osi plus Pan-RAR-inh. For panel (g), *n* = 5 for Veh, *n* = 4 for Osi, *n* = 7 for Pan-RAR-inh, and *n* = 8 for Osi plus Pan-RAR-inh. *P*-values were determined by the Kruskal-Wallis test for both (f) and (g).

(h-i) Immunoblot analysis of RAR α and RAR γ expression in PC9-Tr-BrM (h) and H1650-Tr-BrM (i) cells stably transduced with shRNA set #1 expressing either control shRNA (“sh-Con”) or shRAR α plus shRAR γ (“sh-RAR”) using antibodies against RAR α , RAR γ and β -actin (loading control). The immunoblot image is representative of three independent experiments.

(j-k) Immunoblot analysis of RAR α and RAR γ expression in PC9-Tr-BrM (j) and h1650-Tr-BrM (k) cells stably transduced with shRNA set #2 expressing either control shRNA (“sh-Con”) or shRAR α plus shRAR γ (“sh-

RAR”) using antibodies against RAR α , RAR γ and β -actin (loading control). The immunoblot image is representative of three independent experiments.

(l-m) Violin plots depicting normalized photon flux of brain imaged from the mice injected by intracardiac injection with Tr-BrM from the PC9 model (l) or the H1650 model (m) that were stably transduced with shRNA set #2 expressing either control shRNA (“sh-Con”) or shRAR α plus shRAR γ (“sh-RAR”). Mice were euthanized at 7 weeks post tumor-cell injection. The normalized photon flux for brain was calculated by dividing the photon flux from brains collected *ex-vivo* by the total photon flux at day 0 (i.e., the day of injection) and multiplying that value by 100. Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test: n = 5 per group for all groups.

(n) Representative images of CK7 immunohistochemistry in brain sections from mice injected with either PC9-Tr-BrM sh-Con (left-upper panel), PC9-Tr-BrM sh-RAR (Set 2, left-lower panel), H1650-Tr-BrM sh-Con (right-upper panel) or H1650-Tr-BrM sh-RAR (Set 2, right-lower panel) described in panels (l-m). Scale bars: 500 μ m for the PC9 model and 100 μ m for the H1650 model.

(o) Normalized photon flux of brain from bioluminescence imaging from mice injected with PC9- or H1650-derived Tr-BrM cells stably transduced with shRNA set #2 containing either control shRNA (sh-Con) or shRAR α plus shRAR γ (shRAR) described in panels (l-n). The normalized photon flux for brain was calculated by dividing the photon flux from brains collected *ex-vivo* by the total photon flux at day 0 (i.e., the day of injection) and multiplying that value by 100. Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test. For the PC9 model: n = 7 for sh-Con, and n = 10 for sh-RAR. For the H1650 model, n = 8 for sh-Con and n = 4 for sh-RAR.

(p-q) Violin plots depicting normalized photon flux of lung measured by bioluminescence imaging of mice. Mice were injected with either PC9- or H1650-derivatives directly into the lung (intrathoracic injections as depicted in Suppl. Fig. 5k) and treated with either vehicle or pan-RAR inhibitor AGN194310 (“Pan-RARi”) for 2 weeks. The normalized photon flux for lung was calculated by dividing the photon flux from lung collected at endpoint (3 weeks post tumor-cell injection) *ex vivo* by the total photon flux at day 0 (i.e., the day of injection) and multiplying that value by 100. Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test. For panel (p): n = 8 for Veh, and n = 11 for Pan-RARi. For panel (q): n = 7 for Veh, and n = 8 for Pan-RARi.

(r-s) Violin plots depicting normalized photon flux of bone measured by bioluminescence imaging of mice. Mice were injected with either PC9- or H1650-derivatives directly into the tibia bone as depicted in Suppl. Fig. 5t) and treated with either vehicle or AGN194310 (“Pan-RARi”) for 2 weeks. The normalized photon flux for bone was calculated by dividing the photon flux from bone collected at endpoint (3 weeks post tumor-cell injection) *ex vivo* by the total photon flux at day 0 (i.e., the day of injection) and multiplying that value by 100. Data are presented as mean values \pm SEM. *P*-values were determined by a two-tailed, unpaired Mann-Whitney test. For panel (r), n = 6 for Veh, and n = 4 for Pan-RARi. For panel (s), n = 6 for Veh, and n = 5 for Pan-RARi.

Supplementary Table 1

Accession	Gene	Tr-BrM/BrM (PC9)	P_Value	Bonf_P
NP_001306126.1	S100A8	19.24	1.43E-05	8.31E-03
NP_002956.1	S100A9	16.09	2.53E-05	1.47E-02
XP_005262724.1	UGDH	0.39	2.03E-04	1.18E-01
NP_001020365.1	CES1	39.10	3.77E-04	2.19E-01
NP_002296.1	LGALS1	0.49	4.08E-04	2.37E-01
NP_001186652.1	CRABP2	2.80	8.05E-04	4.68E-01
NP_001145.1	ANXA5	0.85	1.11E-03	6.44E-01
NP_001240837.1	AKR1C3	0.59	1.18E-03	6.87E-01
NP_000413.1	KRT17	25.00	1.34E-03	7.78E-01
NP_005737.1	NAMPT	1.64	1.60E-03	9.32E-01
NP_001304700.1	RPL8	0.82	1.78E-03	1.00E+00
NP_001248374.1	TXNRD1	1.21	2.08E-03	1.00E+00
NP_000691.1	ANXA1	1.42	2.97E-03	1.00E+00
XP_024304747.1	ARHGDI1	3.23	3.24E-03	1.00E+00
NP_005013.1	PFN1	0.80	3.60E-03	1.00E+00
NP_002620.1	PGAM1	0.60	4.21E-03	1.00E+00
NP_001484.1	GDI1	0.63	4.34E-03	1.00E+00
NP_001619.1	AKR1B1	1.35	4.38E-03	1.00E+00
NP_001203.1	C1QBP	0.66	4.59E-03	1.00E+00
NP_000843.1	GSTP1	0.69	4.67E-03	1.00E+00
NP_001395.1	EEF1G	1.24	4.79E-03	1.00E+00
NP_001924.2	DLST	0.73	6.18E-03	1.00E+00
P02769.4	NA	0.37	6.34E-03	1.00E+00
NP_001309997.1	PFKP	0.63	6.52E-03	1.00E+00
NP_919415.2	VAPA	1.63	6.56E-03	1.00E+00
XP_005269798.1	ANXA11	1.52	7.47E-03	1.00E+00
NP_001814.2	CKB	2.00	8.05E-03	1.00E+00
NP_001949.1	EEF1A2	0.81	8.32E-03	1.00E+00
NP_002583.1	PCNA	0.66	9.38E-03	1.00E+00
NP_005130.1	ANXA3	1.56	9.51E-03	1.00E+00
XP_011509690.1	PPP1R7	1.28	1.06E-02	1.00E+00
NP_002559.2	PABPC1	1.22	1.21E-02	1.00E+00
NP_004172.2	UCHL1	0.47	1.52E-02	1.00E+00

Supplementary Table 1

NP_006364.2	VAT1	0.77	1.54E-02	1.00E+00
NP_001025180.1	RPS15A	1.23	1.59E-02	1.00E+00
NP_001019637.1	SOD2	2.81	1.70E-02	1.00E+00
NP_006182.2	PA2G4	0.87	1.91E-02	1.00E+00
NP_006139.1	LASP1	0.74	1.95E-02	1.00E+00
NP_006089.1	RACK1	1.17	1.98E-02	1.00E+00
NP_001071634.1	SRSF1	1.19	2.01E-02	1.00E+00
NP_001311231.1	RPN2	1.15	2.14E-02	1.00E+00
NP_001447.2	FLNA	0.83	2.18E-02	1.00E+00
NP_004902.1	PDIA4	1.19	2.29E-02	1.00E+00
NP_065843.3	NCEH1	1.34	2.36E-02	1.00E+00
XP_016860272.1	STAT1	1.86	2.38E-02	1.00E+00
NP_002795.2	PSMC3	0.73	2.40E-02	1.00E+00
NP_002435.1	MSN	2.50	2.45E-02	1.00E+00
NP_001311151.1	HMGCS1	1.56	2.45E-02	1.00E+00
NP_000414.2	KRT2	0.52	2.48E-02	1.00E+00
NP_001167554.1	NLRP2	1.54	2.62E-02	1.00E+00
NP_005338.1	HSPA5	1.33	2.64E-02	1.00E+00
NP_114366.1	PCBP2	0.92	2.82E-02	1.00E+00
NP_001952.1	EEF2	1.14	2.86E-02	1.00E+00
NP_001138303.1	PHB2	1.83	2.88E-02	1.00E+00
NP_000684.2	ALDH1A3	1.28	2.98E-02	1.00E+00
NP_001258978.1	TRAP1	0.75	3.01E-02	1.00E+00
NP_001317687.1	SDHA	0.70	3.01E-02	1.00E+00
NP_001280134.1	MVP	1.22	3.05E-02	1.00E+00
XP_016882899.1	KHSRP	1.33	3.11E-02	1.00E+00
NP_004452.1	FARSA	1.32	3.20E-02	1.00E+00
NP_060225.4	NSUN2	1.39	3.22E-02	1.00E+00
NP_001341087.1	ACSL3	1.08	3.31E-02	1.00E+00
NP_057417.3	SRRM2	1.25	3.34E-02	1.00E+00
NP_002941.1	RPN1	0.76	3.40E-02	1.00E+00
NP_001273066.1	NQO1	1.16	3.52E-02	1.00E+00

Supplementary Table 1

NP_005558.1	LGALS3BP	0.72	3.61E-02	1.00E+00
NP_112243.1	RAB1B	0.75	3.78E-02	1.00E+00
NP_114368.1	PTBP1	1.38	4.00E-02	1.00E+00
NP_002005.1	FKBP4	1.26	4.02E-02	1.00E+00
NP_817126.1	ACTL6A	0.74	4.05E-02	1.00E+00
NP_002884.1	RBBP7	1.22	4.10E-02	1.00E+00
NP_001393.1	EEF1A1	1.13	4.12E-02	1.00E+00
XP_016861880.1	MAP4	0.87	4.20E-02	1.00E+00
XP_016883446.1	NSFL1C	0.56	4.44E-02	1.00E+00
NP_938148.1	GANAB	0.77	4.52E-02	1.00E+00
NP_060810.2	CPPED1	1.30	4.64E-02	1.00E+00
NP_004095.4	FASN	0.71	4.73E-02	1.00E+00
NP_006614.2	PHGDH	0.73	4.85E-02	1.00E+00
NP_000933.1	PPIB	1.30	5.06E-02	1.00E+00
NP_001531.1	HSPB1	1.26	5.08E-02	1.00E+00
NP_001269530.1	PTGES3	0.75	5.20E-02	1.00E+00
NP_001350928.1	CANX	1.13	5.36E-02	1.00E+00
NP_859048.1	PRDX1	1.22	5.39E-02	1.00E+00
NP_001245366.1	TARS	0.80	5.40E-02	1.00E+00
NP_006818.3	TMED10	0.65	5.53E-02	1.00E+00
NP_001157791.1	FLNB	1.25	5.58E-02	1.00E+00
NP_002783.1	PSMA7	0.84	5.83E-02	1.00E+00
NP_001000.2	RPS5	0.81	5.93E-02	1.00E+00
NP_001016.1	RPS23	0.87	6.06E-02	1.00E+00
XP_011543870.1	SMS	1.18	6.10E-02	1.00E+00
NP_002874.1	RANGAP1	1.42	6.30E-02	1.00E+00
NP_001307662.1	CAPG	1.64	6.33E-02	1.00E+00
NP_001018146.1	NME1-NME2	1.13	6.50E-02	1.00E+00
NP_066952.1	PPA1	1.18	6.67E-02	1.00E+00
NP_004334.1	CALR	1.16	6.84E-02	1.00E+00
NP_001030168.1	RPL14	0.64	6.85E-02	1.00E+00
NP_004035.2	ATIC	1.44	6.86E-02	1.00E+00
NP_002788.1	PSMB5	0.59	6.89E-02	1.00E+00
NP_006112.3	KRT1	0.56	7.07E-02	1.00E+00
NP_001137153.1	GSTK1	1.39	7.41E-02	1.00E+00

Supplementary Table 1

1				
XP_011516716.1	FAM120A	0.34	7.48E-02	1.00E+00
NP_003698.1	RUVBL1	0.76	7.53E-02	1.00E+00
NP_003741.1	EIF3A	1.21	7.66E-02	1.00E+00
NP_001294853.1	NAP1L1	0.85	7.93E-02	1.00E+00
XP_006718014.1	ANXA8	0.89	8.03E-02	1.00E+00
NP_003290.1	HSP90B1	0.90	8.08E-02	1.00E+00
NP_055399.1	ERO1A	1.19	8.10E-02	1.00E+00
XP_006715749.1	GARS	0.57	8.14E-02	1.00E+00
NP_001186731.1	RPL11	0.80	8.25E-02	1.00E+00
NP_001739.2	CAPN2	1.32	8.32E-02	1.00E+00
NP_001184222.1	DPYSL2	0.58	8.46E-02	1.00E+00
XP_005258899.1	PRMT1	1.21	8.66E-02	1.00E+00
NP_001018078.1	SERBP1	0.90	8.67E-02	1.00E+00
NP_005971.1	S100P	1.47	8.71E-02	1.00E+00
NP_036220.1	PGLS	1.26	8.72E-02	1.00E+00
NP_001002857.1	ANXA2	1.15	8.82E-02	1.00E+00
NP_001186272.1	RPL17	1.18	8.84E-02	1.00E+00
NP_001186170.1	KYNU	1.22	8.85E-02	1.00E+00
NP_003644.2	COPS3	1.19	8.99E-02	1.00E+00
NP_000969.1	RPL23	0.92	9.02E-02	1.00E+00
NP_001389.2	ECH1	0.75	9.03E-02	1.00E+00
NP_002127.1	HNRNPA1	1.39	9.03E-02	1.00E+00
NP_009140.1	RPL35	0.92	9.05E-02	1.00E+00
NP_003079.1	FSCN1	0.92	9.11E-02	1.00E+00
NP_003891.1	SQSTM1	0.89	9.14E-02	1.00E+00
NP_036457.1	MAPRE1	0.86	9.26E-02	1.00E+00
NP_001257356.1	PSMD5	1.41	9.47E-02	1.00E+00
NP_001309899.1	OAT	1.22	9.51E-02	1.00E+00
XP_011525623.1	MYH14	1.35	9.56E-02	1.00E+00
XP_024305110.1	HMGB1	0.85	9.61E-02	1.00E+00
XP_005273783.1	SF3B2	0.91	9.83E-02	1.00E+00
NP_006316.1	RAN	0.86	9.95E-02	1.00E+00
NP_001289976.1	MYL12A	0.78	1.01E-01	1.00E+00

Supplementary Table 1

1				
NP_000963.1	RPL7A	0.79	1.02E-01	1.00E+00
NP_001349646.1	BZW2	0.65	1.03E-01	1.00E+00
NP_061819.2	NANS	1.38	1.04E-01	1.00E+00
NP_003279.2	TPD52L2	0.61	1.06E-01	1.00E+00
XP_005272257.1	ASS1	1.56	1.06E-01	1.00E+00
NP_001753.1	CCT6A	0.84	1.08E-01	1.00E+00
NP_004512.1	KIF5B	0.78	1.09E-01	1.00E+00
NP_001182356.1	SRSF2	1.36	1.09E-01	1.00E+00
NP_002794.1	PSMC2	0.91	1.12E-01	1.00E+00
NP_005337.2	HSPA1B	0.75	1.15E-01	1.00E+00
NP_006392.1	ANP32B	1.09	1.16E-01	1.00E+00
NP_000282.1	PGK1	0.91	1.16E-01	1.00E+00
NP_001099000.1	CAP1	1.89	1.17E-01	1.00E+00
NP_057392.1	CMPK1	1.11	1.20E-01	1.00E+00
NP_004085.1	EIF2S1	1.26	1.22E-01	1.00E+00
NP_001961.1	EIF5A	0.78	1.22E-01	1.00E+00
NP_001257419.1	RPL18	0.56	1.25E-01	1.00E+00
NP_000217.2	KRT9	0.72	1.26E-01	1.00E+00
NP_005989.3	CCT3	0.82	1.27E-01	1.00E+00
NP_004437.2	EPRS	1.17	1.27E-01	1.00E+00
NP_612510.1	TECR	0.77	1.27E-01	1.00E+00
NP_057018.1	NOP58	1.40	1.28E-01	1.00E+00
XP_011512637.1	SERPINB1	1.34	1.28E-01	1.00E+00
NP_000973.2	RPL21	1.98	1.28E-01	1.00E+00
NP_002120.1	HMGB2	1.31	1.33E-01	1.00E+00
NP_001310246.1	TGM2	0.82	1.33E-01	1.00E+00
NP_073744.2	FAM129B	1.44	1.37E-01	1.00E+00
NP_001269634.1	PDIA6	1.12	1.39E-01	1.00E+00
NP_003225.2	TFRC	0.85	1.39E-01	1.00E+00
NP_001243222.1	KRT8	1.14	1.40E-01	1.00E+00
NP_066406.1	HIST1H2BB	1.13	1.43E-01	1.00E+00
NP_003396.1	YWHAH	0.64	1.44E-01	1.00E+00
NP_002291.1	LDHB	0.86	1.44E-01	1.00E+00
NP_001243599.	DPP3	1.32	1.45E-01	1.00E+00

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1				
NP_005808.3	PLIN3	1.22	1.45E-01	1.00E+00
XP_016873735.1	SF1	1.25	1.46E-01	1.00E+00
XP_011543041.1	EHD1	1.31	1.46E-01	1.00E+00
NP_003395.1	YWHAB	1.20	1.46E-01	1.00E+00
NP_066565.1	NMT1	0.91	1.46E-01	1.00E+00
NP_002809.2	PSME2	1.40	1.47E-01	1.00E+00
NP_001276675.1	GAPDH	0.88	1.48E-01	1.00E+00
NP_005800.3	PRDX2	0.91	1.49E-01	1.00E+00
NP_000412.3	KRT10	0.56	1.52E-01	1.00E+00
XP_016875852.1	HSPH1	0.86	1.53E-01	1.00E+00
NP_001129126.1	PABPC4	1.27	1.54E-01	1.00E+00
NP_001186883.1	ACTG1	1.16	1.54E-01	1.00E+00
NP_001104547.1	EZR	0.83	1.54E-01	1.00E+00
NP_002793.2	PSMC1	0.90	1.55E-01	1.00E+00
NP_003364.1	VCL	0.79	1.58E-01	1.00E+00
XP_016870157.1	HNRNPK	1.09	1.58E-01	1.00E+00
NP_001677.2	ATP5F1B	0.93	1.59E-01	1.00E+00
NP_004896.1	PRDX6	1.29	1.59E-01	1.00E+00
XP_011512976.1	SERPINB6	0.88	1.60E-01	1.00E+00
NP_001025189.1	APRT	1.22	1.61E-01	1.00E+00
NP_463460.1	FKBP1A	0.77	1.62E-01	1.00E+00
NP_006187.2	PCBP1	0.90	1.62E-01	1.00E+00
NP_001096137.1	PSMA4	0.83	1.63E-01	1.00E+00
NP_001265568.1	RANBP1	1.14	1.65E-01	1.00E+00
NP_004506.2	ILF2	1.15	1.65E-01	1.00E+00
XP_016856353.1	TARDBP	1.22	1.66E-01	1.00E+00
NP_006045.1	RTN3	1.28	1.66E-01	1.00E+00
NP_001288160.1	HMGB3	0.93	1.69E-01	1.00E+00
NP_055040.2	PPP2R1A	1.06	1.69E-01	1.00E+00
NP_954673.1	TMEM189-UBE2V1	0.74	1.69E-01	1.00E+00
NP_001300874.1	RHOA	1.10	1.71E-01	1.00E+00
NP_002009.1	FLII	1.43	1.72E-01	1.00E+00
NP_003320.2	TXN	1.07	1.74E-01	1.00E+00

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NP_005780.2	PSME3	1.20	1.78E-01	1.00E+00
NP_005947.3	MTHFD1	0.84	1.79E-01	1.00E+00
XP_016885270.1	UBA1	0.87	1.80E-01	1.00E+00
NP_001290553.1	RPL10	0.92	1.81E-01	1.00E+00
XP_016871560.1	GDI2	0.76	1.81E-01	1.00E+00
NP_579899.1	MYOF	0.83	1.83E-01	1.00E+00
NP_005547.3	KRT7	1.09	1.87E-01	1.00E+00
NP_002071.2	GOT2	1.14	1.89E-01	1.00E+00
NP_000977.1	RPL24	1.52	1.92E-01	1.00E+00
NP_001230829.1	HDLBP	0.82	1.93E-01	1.00E+00
NP_000993.1	RPLP0	0.89	1.95E-01	1.00E+00
XP_024309321.1	CTPS1	1.41	1.95E-01	1.00E+00
NP_852133.1	EIF6	0.86	1.95E-01	1.00E+00
NP_001001.2	RPS6	0.92	1.95E-01	1.00E+00
NP_005557.1	LDHA	0.85	1.97E-01	1.00E+00
XP_011541100.1	HSPA8	0.92	1.98E-01	1.00E+00
NP_006397.1	PRDX4	1.28	1.98E-01	1.00E+00
NP_001020092.1	RPL9	1.36	1.99E-01	1.00E+00
NP_003118.2	SPTAN1	1.29	1.99E-01	1.00E+00
NP_000995.1	RPLP2	0.83	2.00E-01	1.00E+00
XP_016880177.1	ACLY	1.23	2.01E-01	1.00E+00
NP_002797.3	PSMC6	0.86	2.04E-01	1.00E+00
NP_001138881.1	NONO	0.87	2.05E-01	1.00E+00
NP_001258029.1	PUF60	0.80	2.06E-01	1.00E+00
NP_003861.1	IQGAP1	1.07	2.07E-01	1.00E+00
NP_004083.3	ECHS1	0.73	2.08E-01	1.00E+00
NP_002147.2	HSPD1	0.85	2.08E-01	1.00E+00
XP_011518559.1	RNH1	1.14	2.10E-01	1.00E+00
NP_001976.1	ETFB	0.90	2.11E-01	1.00E+00
NP_000134.2	FH	1.28	2.12E-01	1.00E+00
NP_002257.1	KPNA2	1.16	2.13E-01	1.00E+00
NP_000916.2	PDHB	1.32	2.13E-01	1.00E+00
NP_001307526.1	DDX5	1.19	2.15E-01	1.00E+00
NP_057071.2	HEBP1	1.23	2.16E-01	1.00E+00
NP_001345445.1	PRDX5	0.85	2.19E-01	1.00E+00

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NP_004930.1	DDX1	0.65	2.22E-01	1.00E+00
NP_066953.1	PPIA	0.90	2.22E-01	1.00E+00
NP_001681.2	ATP6V1A	0.90	2.23E-01	1.00E+00
NP_001019.1	RPS25	1.28	2.23E-01	1.00E+00
NP_001406.1	EIF2S3	1.12	2.25E-01	1.00E+00
XP_011507756.1	HDGF	1.12	2.25E-01	1.00E+00
NP_001120699.1	CD59	1.26	2.26E-01	1.00E+00
NP_001013269.1	SLC3A2	0.86	2.28E-01	1.00E+00
NP_006296.1	ANP32A	0.85	2.28E-01	1.00E+00
NP_006808.1	ERP29	0.78	2.30E-01	1.00E+00
NP_057535.1	COPB1	1.42	2.31E-01	1.00E+00
NP_004550.2	YBX1	1.18	2.31E-01	1.00E+00
NP_002781.2	PSMA5	1.08	2.31E-01	1.00E+00
NP_000117.1	ETFA	0.88	2.32E-01	1.00E+00
NP_005713.1	ACTR2	1.12	2.33E-01	1.00E+00
NP_001289561.1	CAPNS1	0.83	2.33E-01	1.00E+00
XP_011507516.1	BROX	1.28	2.34E-01	1.00E+00
NP_001688.1	ATP5PO	0.56	2.35E-01	1.00E+00
XP_005256841.1	YWHAE	0.84	2.37E-01	1.00E+00
NP_003530.1	HIST1H4D	1.21	2.40E-01	1.00E+00
NP_002782.1	PSMA6	0.81	2.42E-01	1.00E+00
NP_001017963.2	HSP90AA1	0.95	2.44E-01	1.00E+00
NP_150254.1	RPL13	0.88	2.44E-01	1.00E+00
NP_002625.1	PHB	0.81	2.45E-01	1.00E+00
NP_006746.1	TALDO1	1.52	2.45E-01	1.00E+00
NP_001317583.1	EIF4B	0.86	2.46E-01	1.00E+00
NP_002902.2	UPF1	1.07	2.48E-01	1.00E+00
NP_036205.1	CCT5	0.87	2.48E-01	1.00E+00
NP_003281.1	TPM4	1.10	2.49E-01	1.00E+00
NP_005773.3	ALYREF	0.92	2.52E-01	1.00E+00
NP_004492.2	HNRNPU	1.30	2.52E-01	1.00E+00
NP_006383.2	NOP56	1.21	2.53E-01	1.00E+00
NP_003339.1	UBE2N	0.92	2.55E-01	1.00E+00
NP_001278904.1	ETF1	1.37	2.56E-01	1.00E+00
NP_001269315.1	IDH1	0.83	2.60E-01	1.00E+00

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NP_444295.1	UBQLN1	0.91	2.60E-01	1.00E+00
NP_001265481.1	TUBA4A	0.85	2.60E-01	1.00E+00
NP_036611.2	YWHAG	1.13	2.61E-01	1.00E+00
NP_004490.2	HNRNPAB	1.48	2.62E-01	1.00E+00
NP_001120668.1	CNBP	0.90	2.63E-01	1.00E+00
XP_024306305.1	PRPF8	1.31	2.65E-01	1.00E+00
NP_002778.1	PSMA2	0.84	2.68E-01	1.00E+00
NP_001139021.1	TXNDC5	0.72	2.71E-01	1.00E+00
XP_011524712.1	U2AF2	1.69	2.71E-01	1.00E+00
XP_011541107.1	IL18	3.61	2.72E-01	1.00E+00
NP_687033.1	PSMA3	0.85	2.72E-01	1.00E+00
NP_998776.1	SLC25A3	1.52	2.73E-01	1.00E+00
NP_000975.2	RPL23A	1.09	2.74E-01	1.00E+00
NP_009207.2	CBX3	1.17	2.74E-01	1.00E+00
NP_001317129.1	RPL19	0.89	2.75E-01	1.00E+00
NP_000173.2	HADHA	1.35	2.77E-01	1.00E+00
NP_001269554.1	LMNA	0.85	2.77E-01	1.00E+00
NP_005222.2	CTTN	0.85	2.78E-01	1.00E+00
NP_001951.2	EEF1D	1.08	2.78E-01	1.00E+00
NP_001853.2	COX5B	0.81	2.78E-01	1.00E+00
XP_024305474.1	WARS	1.19	2.79E-01	1.00E+00
XP_005264575.1	SPTBN1	1.08	2.79E-01	1.00E+00
NP_002943.2	RPS2	1.14	2.80E-01	1.00E+00
XP_016856845.1	NASP	0.76	2.81E-01	1.00E+00
NP_002267.2	KRT19	1.30	2.86E-01	1.00E+00
NP_000185.1	HPRT1	0.77	2.89E-01	1.00E+00
NP_001276681.1	DLD	1.33	2.93E-01	1.00E+00
XP_011540695.1	FUBP1	1.12	2.93E-01	1.00E+00
NP_002706.1	PPP2CA	1.41	2.94E-01	1.00E+00
NP_000967.1	RPL12	0.90	2.95E-01	1.00E+00
NP_005331.1	HINT1	1.16	2.97E-01	1.00E+00
NP_001229602.1	AHCYL1	1.29	2.99E-01	1.00E+00
NP_000996.2	RPS3	1.10	3.00E-01	1.00E+00
XP_005263481.1	PARK7	0.89	3.01E-01	1.00E+00
NP_005177.2	CAPN1	0.88	3.03E-01	1.00E+00

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NP_006266.2	SRSF6	1.26	3.04E-01	1.00E+00
NP_001117.2	ADSS	0.92	3.07E-01	1.00E+00
NP_001129478.1	GART	1.08	3.07E-01	1.00E+00
NP_006254.1	PSME1	1.37	3.08E-01	1.00E+00
NP_000997.1	RPS3A	1.05	3.09E-01	1.00E+00
NP_003510.1	HIST1H2BL	1.19	3.13E-01	1.00E+00
NP_060140.2	OTUB1	1.07	3.14E-01	1.00E+00
XP_024306727.1	TAF15	0.90	3.16E-01	1.00E+00
NP_001349.2	DHX15	0.81	3.20E-01	1.00E+00
NP_958434.1	CNN2	0.73	3.21E-01	1.00E+00
XP_011512246.1	SUB1	0.94	3.25E-01	1.00E+00
NP_001341935.1	NPM1	1.14	3.25E-01	1.00E+00
NP_001229820.1	CSDE1	1.17	3.28E-01	1.00E+00
NP_002878.2	RARS	1.06	3.29E-01	1.00E+00
NP_004037.1	ATP5F1A	1.04	3.34E-01	1.00E+00
NP_000875.2	IMPDH2	0.94	3.36E-01	1.00E+00
NP_066272.1	PDLIM1	1.12	3.36E-01	1.00E+00
NP_005498.1	CFL1	0.93	3.36E-01	1.00E+00
NP_003357.2	UQCRC2	1.12	3.36E-01	1.00E+00
NP_009109.3	STRAP	1.18	3.40E-01	1.00E+00
NP_005678.3	FARSB	1.08	3.41E-01	1.00E+00
XP_016856850.1	ATP1A1	1.18	3.44E-01	1.00E+00
NP_001008.1	RPS13	0.85	3.46E-01	1.00E+00
NP_002145.3	HSPA4	1.04	3.46E-01	1.00E+00
NP_003125.3	SRP14	1.14	3.50E-01	1.00E+00
NP_001027565.1	HNRNPH2	1.03	3.53E-01	1.00E+00
NP_001002.1	RPS7	0.94	3.53E-01	1.00E+00
NP_008996.1	CDC37	0.58	3.57E-01	1.00E+00
NP_000393.4	G6PD	0.90	3.59E-01	1.00E+00
NP_055205.2	SND1	1.15	3.59E-01	1.00E+00
NP_001672.1	ATP2A2	1.32	3.59E-01	1.00E+00
NP_000678.1	AHCY	0.81	3.61E-01	1.00E+00
NP_001226.2	SERPINH1	1.08	3.61E-01	1.00E+00
NP_064601.3	RNPEP	0.90	3.66E-01	1.00E+00
NP_001333694.1	MYO18A	25.00	3.74E-01	1.00E+00
NP_001143.2	SLC25A5	1.11	3.74E-01	1.00E+00

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NP_054733.2	SNRNP200	0.80	3.77E-01	1.00E+00
NP_055121.1	RTCB	0.86	3.77E-01	1.00E+00
XP_024304324.1	NUMA1	0.77	3.78E-01	1.00E+00
XP_011518787.1	CD44	1.17	3.78E-01	1.00E+00
NP_001269267.1	PLS3	1.09	3.80E-01	1.00E+00
NP_112480.2	HNRNPM	1.16	3.82E-01	1.00E+00
NP_002806.2	PSMD11	1.10	3.86E-01	1.00E+00
NP_065393.1	RTN4	1.14	3.88E-01	1.00E+00
NP_008839.2	RAC1	0.92	3.91E-01	1.00E+00
NP_003472.2	USP5	0.85	3.93E-01	1.00E+00
XP_011526434.1	PRKCSH	0.92	3.94E-01	1.00E+00
XP_024307741.1	STAU1	0.86	3.97E-01	1.00E+00
NP_004850.1	CLTC	1.11	3.98E-01	1.00E+00
NP_060676.2	VPS35	1.06	3.99E-01	1.00E+00
NP_002297.2	LGALS3	1.05	4.04E-01	1.00E+00
NP_000960.2	RPL5	0.90	4.04E-01	1.00E+00
NP_005304.3	PDIA3	0.94	4.06E-01	1.00E+00
NP_004362.2	COPA	1.16	4.09E-01	1.00E+00
XP_005265154.1	APEH	0.43	4.12E-01	1.00E+00
NP_001136077.1	EFTUD2	0.88	4.13E-01	1.00E+00
NP_001524.2	HNRNPL	1.28	4.14E-01	1.00E+00
XP_011525056.1	GPI	0.96	4.16E-01	1.00E+00
NP_001186128.1	AK2	1.10	4.21E-01	1.00E+00
NP_001258901.1	HSP90AB1	0.95	4.24E-01	1.00E+00
NP_001349691.1	CSE1L	0.90	4.28E-01	1.00E+00
NP_001278086.1	EIF4G1	1.07	4.29E-01	1.00E+00
NP_000962.2	RPL7	0.93	4.32E-01	1.00E+00
XP_024308692.1	43345	0.90	4.32E-01	1.00E+00
NP_006286.1	VARS	1.21	4.38E-01	1.00E+00
XP_016865665.1	SYNCRIP	0.89	4.39E-01	1.00E+00
XP_005270360.1	CDK1	0.91	4.41E-01	1.00E+00
NP_001264152.1	TAGLN2	0.89	4.46E-01	1.00E+00
NP_000356.1	TPI1	0.92	4.47E-01	1.00E+00
NP_005539.1	KARS	1.17	4.49E-01	1.00E+00
NP_001308633.	RPS9	1.13	4.49E-01	1.00E+00

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1				
NP_002194.2	ITGA2	0.74	4.51E-01	1.00E+00
XP_011515433.1	PLEC	1.21	4.52E-01	1.00E+00
NP_001185771.1	CCT2	0.88	4.52E-01	1.00E+00
NP_003082.1	SNRPB	1.11	4.55E-01	1.00E+00
NP_001345.1	AKR1C2	1.12	4.56E-01	1.00E+00
NP_000909.2	P4HB	0.88	4.58E-01	1.00E+00
NP_005712.1	ACTR3	0.93	4.65E-01	1.00E+00
XP_005264542.1	SRSF7	0.87	4.67E-01	1.00E+00
NP_000215.1	KRT18	1.22	4.68E-01	1.00E+00
NP_001055.1	TKT	1.09	4.71E-01	1.00E+00
NP_005330.1	UBE2K	0.88	4.74E-01	1.00E+00
NP_001159828.1	SHMT2	0.83	4.74E-01	1.00E+00
NP_001275907.1	XRCC6	0.98	4.81E-01	1.00E+00
XP_016877217.1	ACTN1	1.21	4.81E-01	1.00E+00
NP_001247440.1	MGST1	1.19	4.82E-01	1.00E+00
NP_001007075.1	RPL32	0.94	4.84E-01	1.00E+00
NP_002558.1	PEBP1	0.94	4.84E-01	1.00E+00
XP_011542194.1	DDX3X	1.39	4.86E-01	1.00E+00
XP_005270344.1	BAG3	1.50	4.89E-01	1.00E+00
NP_001316851.1	CALM3	1.22	4.97E-01	1.00E+00
NP_001274073.1	TPD52	0.95	5.01E-01	1.00E+00
NP_006576.2	CCT8	0.94	5.02E-01	1.00E+00
NP_001291381.1	PGD	1.05	5.05E-01	1.00E+00
NP_057177.1	RPL26L1	0.93	5.12E-01	1.00E+00
NP_005611.1	S100A11	0.91	5.13E-01	1.00E+00
NP_002892.1	RCN1	1.12	5.17E-01	1.00E+00
NP_001006.1	RPS11	1.18	5.19E-01	1.00E+00
NP_000445.1	SOD1	1.12	5.20E-01	1.00E+00
NP_005709.1	ARPC4	1.10	5.24E-01	1.00E+00
NP_001243650.1	CCT4	0.97	5.24E-01	1.00E+00
XP_011530781.1	CCT7	0.91	5.25E-01	1.00E+00
NP_009057.1	VCP	0.97	5.28E-01	1.00E+00
NP_665811.1	AIFM1	0.85	5.30E-01	1.00E+00

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NP_054779.1	MCTS1	0.94	5.34E-01	1.00E+00
XP_005245419.1	S100A14	0.79	5.34E-01	1.00E+00
NP_976240.1	CAPRIN1	0.88	5.36E-01	1.00E+00
NP_055644.2	DDX46	0.90	5.36E-01	1.00E+00
XP_016874610.1	CORO1C	0.79	5.39E-01	1.00E+00
NP_002286.2	RPSA	0.96	5.39E-01	1.00E+00
NP_005902.1	MAT2A	1.08	5.41E-01	1.00E+00
XP_024305327.1	HNRNPC	1.19	5.42E-01	1.00E+00
NP_001073027.1	HNRNPUL2	1.14	5.42E-01	1.00E+00
NP_002784.1	PSMB1	1.20	5.44E-01	1.00E+00
NP_036399.3	HSPBP1	0.95	5.46E-01	1.00E+00
NP_004631.1	DDX39B	1.05	5.47E-01	1.00E+00
NP_000981.1	RPL27A	0.95	5.54E-01	1.00E+00
NP_001254793.1	SLIRP	1.05	5.54E-01	1.00E+00
NP_001339705.1	JUP	0.97	5.55E-01	1.00E+00
XP_016884292.1	MYH9	0.82	5.56E-01	1.00E+00
XP_016860308.1	TTN	1.37	5.60E-01	1.00E+00
NP_524147.2	MYL6	0.91	5.66E-01	1.00E+00
NP_002148.1	HSPE1	1.05	5.71E-01	1.00E+00
XP_011518845.1	DNM1L	1.20	5.73E-01	1.00E+00
NP_003748.1	EIF3I	1.16	5.74E-01	1.00E+00
NP_061322.2	MATR3	0.90	5.75E-01	1.00E+00
XP_016883627.1	RBM39	0.96	5.79E-01	1.00E+00
NP_055227.1	CACYBP	0.94	5.84E-01	1.00E+00
NP_001014.1	RPS20	0.97	5.84E-01	1.00E+00
NP_001007101.1	SCP2	0.97	5.88E-01	1.00E+00
NP_004125.3	HSPA9	0.97	5.90E-01	1.00E+00
NP_001036041.1	RRBP1	1.16	5.96E-01	1.00E+00
NP_001091675.1	HNRNPF	1.11	5.97E-01	1.00E+00
NP_001017.1	RPS24	1.02	5.97E-01	1.00E+00
NP_663782.2	AP1B1	1.08	5.98E-01	1.00E+00
NP_000979.1	RPL27	0.91	6.04E-01	1.00E+00
NP_001189378.1	ADK	0.90	6.08E-01	1.00E+00
NP_006784.1	PRDX3	1.05	6.08E-01	1.00E+00
NP_001609.2	PARP1	0.80	6.10E-01	1.00E+00

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NP_006817.1	YWHAQ	1.07	6.11E-01	1.00E+00
NP_001308412.1	RPS19	0.93	6.15E-01	1.00E+00
NP_004915.2	ACTN4	1.03	6.17E-01	1.00E+00
NP_001367.2	DYNC1H1	1.07	6.20E-01	1.00E+00
NP_817092.1	PPM1G	0.95	6.20E-01	1.00E+00
XP_016879108.1	TUFM	0.95	6.22E-01	1.00E+00
XP_016865310.1	VDAC1	1.10	6.26E-01	1.00E+00
NP_001019398.1	ARF1	1.06	6.27E-01	1.00E+00
XP_011523824.1	EIF4A3	1.21	6.33E-01	1.00E+00
NP_001303293.1	EIF2S2	0.98	6.43E-01	1.00E+00
XP_011540527.1	CAPZA1	1.03	6.43E-01	1.00E+00
NP_055317.1	PRPF19	1.05	6.44E-01	1.00E+00
NP_110379.2	TCP1	1.01	6.46E-01	1.00E+00
XP_016857522.1	S100A6	0.92	6.47E-01	1.00E+00
NP_705935.1	TPM3	0.95	6.47E-01	1.00E+00
NP_001257412.1	TST	0.78	6.48E-01	1.00E+00
NP_001182031.1	GSR	0.91	6.49E-01	1.00E+00
NP_000974.1	RPL22	0.93	6.53E-01	1.00E+00
NP_001007794.1	BUB3	1.09	6.57E-01	1.00E+00
NP_001914.3	DDB1	0.83	6.58E-01	1.00E+00
NP_003923.2	ST13	0.96	6.59E-01	1.00E+00
XP_016867599.1	HNRNPA2B1	1.05	6.60E-01	1.00E+00
NP_703194.1	ILF3	0.93	6.61E-01	1.00E+00
NP_006504.2	SARS	1.09	6.68E-01	1.00E+00
XP_005254500.1	PKM	1.08	6.69E-01	1.00E+00
NP_037473.3	OLA1	0.86	6.69E-01	1.00E+00
NP_066926.1	TMSB10	1.06	6.72E-01	1.00E+00
NP_006377.2	DDX17	1.07	6.72E-01	1.00E+00
NP_001027455.1	TMPO	1.17	6.77E-01	1.00E+00
NP_001231642.1	RAD23B	1.06	6.80E-01	1.00E+00
NP_001410.2	ELAVL1	0.88	6.81E-01	1.00E+00
NP_001009.1	RPS15	1.02	6.82E-01	1.00E+00
NP_001530.1	DNAJA1	0.97	6.84E-01	1.00E+00
NP_003134.1	SSBP1	0.96	6.85E-01	1.00E+00

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NP_001308402.1	THRAP3	1.11	6.94E-01	1.00E+00
NP_000025.1	ALDOA	0.96	6.95E-01	1.00E+00
NP_001317186.1	NPEPPS	1.03	7.06E-01	1.00E+00
NP_001007.2	RPS12	0.97	7.16E-01	1.00E+00
NP_003745.1	EIF3F	1.09	7.18E-01	1.00E+00
XP_005250405.1	MCM7	0.97	7.21E-01	1.00E+00
NP_001407.1	EIF4A1	0.96	7.23E-01	1.00E+00
XP_011538832.1	NUDC	0.97	7.29E-01	1.00E+00
NP_064695.3	AKR1B10	1.03	7.31E-01	1.00E+00
NP_000998.1	RPS4X	0.97	7.34E-01	1.00E+00
NP_001731.2	CALB2	0.87	7.36E-01	1.00E+00
NP_006658.1	PGRMC1	1.07	7.37E-01	1.00E+00
NP_060918.2	CAND1	0.97	7.38E-01	1.00E+00
XP_011536691.1	NACA	1.04	7.39E-01	1.00E+00
NP_001340.2	DARS	1.05	7.40E-01	1.00E+00
NP_002957.1	S100A10	0.97	7.41E-01	1.00E+00
NP_056229.2	RPL36	1.08	7.43E-01	1.00E+00
NP_066932.1	TMSB4X	0.92	7.43E-01	1.00E+00
XP_016873759.1	AHNAK	1.09	7.48E-01	1.00E+00
NP_002256.2	KPNB1	0.93	7.51E-01	1.00E+00
NP_003133.1	SSB	0.94	7.51E-01	1.00E+00
NP_005909.2	MDH2	1.04	7.52E-01	1.00E+00
NP_006133.1	SFN	1.05	7.55E-01	1.00E+00
NP_001243839.1	DDX21	1.08	7.61E-01	1.00E+00
NP_001900.1	CTSD	0.97	7.61E-01	1.00E+00
NP_004921.1	CAPZB	1.04	7.63E-01	1.00E+00
NP_002799.3	PSMD2	1.02	7.68E-01	1.00E+00
NP_055866.1	ERP44	1.04	7.71E-01	1.00E+00
XP_016862911.1	GMPS	0.98	7.71E-01	1.00E+00
NP_001139580.1	PTGR1	0.98	7.71E-01	1.00E+00
NP_001308968.1	NUTF2	0.93	7.80E-01	1.00E+00
NP_001172006.1	ARHGDI A	0.98	7.80E-01	1.00E+00
XP_016875271.1	RPL6	0.98	7.83E-01	1.00E+00
NP_001189399.1	RPS10-NUDT3	0.98	7.88E-01	1.00E+00
NP_002800.2	PSMD3	1.05	7.89E-01	1.00E+00

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NP_000980.1	RPL30	1.02	7.90E-01	1.00E+00
NP_116126.3	LMNB2	0.95	7.94E-01	1.00E+00
NP_057212.1	COPG1	1.11	7.96E-01	1.00E+00
NP_005372.2	NCL	1.02	8.00E-01	1.00E+00
NP_005753.1	TRIM28	1.02	8.01E-01	1.00E+00
XP_024308955.1	HAT1	0.96	8.02E-01	1.00E+00
NP_116120.1	TXNDC17	0.97	8.03E-01	1.00E+00
NP_821133.1	TUBB	1.03	8.07E-01	1.00E+00
NP_001012.1	RPS17	1.06	8.08E-01	1.00E+00
NP_072045.1	RPS18	1.04	8.10E-01	1.00E+00
NP_001091.1	ACTA1	1.02	8.14E-01	1.00E+00
NP_006443.1	PAICS	0.98	8.14E-01	1.00E+00
NP_001596.2	AARS	0.93	8.17E-01	1.00E+00
NP_001116293.1	SET	1.05	8.18E-01	1.00E+00
NP_078934.3	IPO4	0.96	8.23E-01	1.00E+00
NP_005727.1	ACTR1A	0.94	8.23E-01	1.00E+00
NP_000959.2	RPL4	1.02	8.23E-01	1.00E+00
NP_003008.1	SRSF3	0.96	8.24E-01	1.00E+00
XP_011522035.1	ALDH3A2	1.04	8.30E-01	1.00E+00
NP_001139555.1	MBOAT7	0.98	8.30E-01	1.00E+00
NP_001280624.1	43352	1.01	8.32E-01	1.00E+00
NP_036558.3	SF3B3	1.03	8.34E-01	1.00E+00
NP_059980.2	TMED9	0.98	8.36E-01	1.00E+00
NP_892116.2	EIF5	0.96	8.39E-01	1.00E+00
NP_004484.1	HSD17B10	0.98	8.44E-01	1.00E+00
NP_057006.1	NSDHL	0.97	8.45E-01	1.00E+00
NP_001193997.1	BZW1	1.02	8.47E-01	1.00E+00
XP_005255290.1	FUS	1.02	8.47E-01	1.00E+00
NP_001022.1	RPS28	0.95	8.48E-01	1.00E+00
NP_060979.2	LRRC59	1.03	8.48E-01	1.00E+00
NP_001267718.1	SURF4	1.04	8.49E-01	1.00E+00
NP_006810.1	STIP1	0.98	8.49E-01	1.00E+00
NP_001186041.1	MDH1	0.99	8.54E-01	1.00E+00
XP_005271172.1	SFPQ	1.03	8.54E-01	1.00E+00
XP_011513903.1	EIF3B	1.02	8.59E-01	1.00E+00
NP_002789.1	PSMB6	0.98	8.62E-01	1.00E+00

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NP_001193929.1	HNRNPDL	1.04	8.67E-01	1.00E+00
NP_001003.1	RPS8	0.98	8.71E-01	1.00E+00
NP_065392.1	APMAP	1.02	8.77E-01	1.00E+00
NP_001348.2	DHX9	0.97	8.82E-01	1.00E+00
XP_011527446.1	DSTN	0.98	8.83E-01	1.00E+00
NP_665807.1	MTPN	1.01	8.87E-01	1.00E+00
NP_001011.1	RPS16	1.02	8.92E-01	1.00E+00
NP_009035.3	RPL10A	0.99	9.00E-01	1.00E+00
NP_036243.1	AHSA1	0.98	9.03E-01	1.00E+00
NP_066944.1	EEF1B2	1.02	9.06E-01	1.00E+00
NP_002777.1	PSMA1	0.99	9.08E-01	1.00E+00
XP_024308018.1	ACO2	0.99	9.12E-01	1.00E+00
NP_001317179.1	HNRNPA3	1.03	9.13E-01	1.00E+00
NP_004999.1	SNU13	1.03	9.16E-01	1.00E+00
NP_001075109.1	PRKDC	1.01	9.18E-01	1.00E+00
NP_001279.2	CLIC1	1.01	9.24E-01	1.00E+00
NP_001186092.1	PSMC5	1.01	9.27E-01	1.00E+00
1EPT_B	NA	1.01	9.29E-01	1.00E+00
NP_001242941.1	MYH10	1.01	9.33E-01	1.00E+00
NP_004823.1	GSTO1	1.01	9.34E-01	1.00E+00
XP_011519389.1	IPO5	0.98	9.42E-01	1.00E+00
NP_005608.1	RPS14	1.01	9.44E-01	1.00E+00
NP_056988.3	EIF5B	0.99	9.47E-01	1.00E+00
NP_066964.1	XRCC5	1.01	9.54E-01	1.00E+00
NP_001015.1	RPS21	0.99	9.72E-01	1.00E+00
NP_037506.2	PDCD6IP	1.00	9.75E-01	1.00E+00
NP_004598.1	TBCA	1.00	9.77E-01	1.00E+00
NP_001029025.1	RPL3	1.00	9.85E-01	1.00E+00
NP_006657.1	RUVBL2	1.01	9.88E-01	1.00E+00
NP_001129173.1	YWHAZ	1.00	9.88E-01	1.00E+00
NP_001748.1	CBR1	1.00	9.89E-01	1.00E+00
NP_005745.1	G3BP1	1.00	9.96E-01	1.00E+00
XP_011530775.1	LRPPRC	1.00	1.00E+00	1.00E+00

Supplementary Table 1: Protein abundance differences between PC9-Tr-BrM and PC9-BrM cells as identified by label-free quantitative mass spectrometry. Protein name and NCBI sequence IDs are included. The ratios of normalized, quantitative mass spectrometry abundances are presented as PC9-Tr-BrM relative to PC9-BrM. P-values were computed using a two-tailed Student's t-test and adjusted for multiple hypothesis testing using a Bonferroni correction. See accompanying Figure 2.

Supplementary Table 2

# DAVID analysis with proteins with log 2 FC > 0.7 (n=19 top proteins) in PC9- Tr-BrM vs BrM									
Category	Term	Count	%	PValue	Genes (Red = S100A9/8)	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_CC_DIRECT	GO:0070062~extracellular exosome	13	68.4	1.32E-06	CAP1, CRABP2, IL18, MSN, CAPG, SOD2, PHB2, KRT17, ARHGDIB, NAMPT, CKB, S100A9, S100A8	4.44	9.38E-05	9.38E-05	8.98E-05
UP_SEQ_FEATURE	mutagenesis site	11	57.9	4.52E-06	KRT17, CRABP2, STAT1, U2AF2, NAMPT, MYO18A, CKB, SOD2, S100A9, S100A8, CES1	5.30	3.25E-04	3.30E-04	3.30E-04
GOTERM_CC_DIRECT	GO:0071944~cell periphery	3	15.8	6.68E-04	KRT17, MSN, PHB2	73.78	0.046	0.024	0.023
UP_KEYWORDS	Cytoplasm	12	63.2	6.80E-04	KRT17, CRABP2, STAT1, NAMPT, ARHGDIB, MYO18A, MSN, CAPG, CKB, PHB2, S100A9, S100A8	2.70	0.054	0.030	0.030
UP_KEYWORDS	S-nitrosylation	3	15.8	1.01E-03	MSN, S100A9, S100A8	60.18	0.079	0.030	0.030
UP_KEYWORDS	Acetylation	10	52.6	1.11E-03	CAP1, VAPA, STAT1, U2AF2, NAMPT, ARHGDIB, MSN, CAPG, SOD2, PHB2	3.16	0.087	0.030	0.030
GOTERM_CC_DIRECT	GO:0005615~extracellular space	7	36.8	1.38E-03	NAMPT, IL18, MSN, CKB, S100A9, S100A8, CES1	4.98	0.093	0.033	0.031
GOTERM_CC_DIRECT	GO:0005829~cytosol	10	52.6	2.14E-03	RPL21, CRABP2, STAT1, NAMPT, ARHGDIB, IL18, CKB, S100A9, S100A8, CES1	2.89	0.14	0.038	0.036
GOTERM_CC_DIRECT	GO:0005856~cytoskeleton	4	21.1	5.44E-03	ARHGDIB, MSN, S100A9, S100A8	10.34	0.32	0.077	0.074
GOTERM_CC_DIRECT	GO:0043209~myelin sheath	3	15.8	9.69E-03	MSN, CKB, SOD2	18.93	0.50	0.11	0.11
UP_KEYWORDS	Phosphoprotein	14	73.7	5.83E-03	CAP1, STAT1, MSN, CAPG, PHB2, KRT17, VAPA, U2AF2, ARHGDIB, NAMPT, MYO18A, CKB, S100A9, CES1	1.84	0.38	0.12	0.12
GOTERM_MF_DIRECT	GO:0035662~Toll-like receptor 4 binding	2	10.5	4.26E-03	S100A9, S100A8	444.24	0.28	0.16	0.15
GOTERM_MF_DIRECT	GO:0050544~arachidonic acid binding	2	10.5	5.32E-03	S100A9, S100A8	355.39	0.34	0.16	0.15
GOTERM_MF_DIRECT	GO:0005515~protein binding	16	84.2	6.14E-03	RPL21, CRABP2, STAT1, IL18, MSN, CAPG, PHB2, KRT17, VAPA, U2AF2, ARHGDIB, NAMPT, MYO18A, CKB, S100A9, S100A8	1.62	0.38	0.16	0.15
GOTERM_BP_DIRECT	GO:0048661~positive regulation of smooth muscle cell proliferation	3	15.8	1.85E-03	STAT1, NAMPT, IL18	44.19	0.41	0.17	0.17
GOTERM_BP_DIRECT	GO:0070488~neutrophil aggregation	2	10.5	2.14E-03	S100A9, S100A8	883.79	0.46	0.17	0.17
GOTERM_BP_DIRECT	GO:0050729~positive regulation of inflammatory response	3	15.8	2.73E-03	IL18, S100A9, S100A8	36.32	0.54	0.17	0.17
GOTERM_BP_DIRECT	GO:0032602~chemokine production	2	10.5	3.21E-03	S100A9, S100A8	589.19	0.60	0.17	0.17
GOTERM_BP_DIRECT	GO:0030307~positive regulation of cell growth	3	15.8	3.59E-03	KRT17, S100A9, S100A8	31.56	0.64	0.17	0.17
GOTERM_BP_DIRECT	GO:0002793~positive regulation of peptide secretion	2	10.5	4.28E-03	S100A9, S100A8	441.89	0.70	0.17	0.17
GOTERM_BP_DIRECT	GO:0032119~sequestering of zinc ion	2	10.5	4.28E-03	S100A9, S100A8	441.89	0.70	0.17	0.17

GOTERM_MF_DIRECT	GO:0050786~RAGE receptor binding	2	10.5	1.17E-02	S100A9, S100A8	161.54	0.60	0.22	0.22
GOTERM_BP_DIRECT	GO:0007165~signal transduction	6	31.6	6.28E-03	CAP1, KRT17, VAPA, CRABP2, NAMPT, S100A9	4.57	0.83	0.22	0.22
UP_KEYWORDS	Isopeptide bond	5	26.3	1.50E-02	CAP1, KRT17, CRABP2, STAT1, U2AF2	4.78	0.71	0.25	0.24
GOTERM_MF_DIRECT	GO:0004871~signal transducer activity	3	15.8	1.96E-02	VAPA, STAT1, S100A9	13.07	0.78	0.26	0.25
GOTERM_MF_DIRECT	GO:0008017~microtubule binding	3	15.8	2.03E-02	VAPA, S100A9, S100A8	12.81	0.79	0.26	0.25
SMART	SM01394:SM01394	2	10.5	2.48E-02	S100A9, S100A8	71.84	0.28	0.32	0.32
GOTERM_BP_DIRECT	GO:0071803~positive regulation of podosome assembly	2	10.5	1.07E-02	MSN, CAPG	176.76	0.95	0.33	0.33
GOTERM_BP_DIRECT	GO:0002523~leukocyte migration involved in inflammatory response	2	10.5	1.17E-02	S100A9, S100A8	160.69	0.96	0.33	0.33
GOTERM_MF_DIRECT	GO:0003779~actin binding	3	15.8	3.48E-02	CAP1, MSN, CAPG	9.59	0.93	0.36	0.35
GOTERM_MF_DIRECT	GO:0098641~cadherin binding involved in cell-cell adhesion	3	15.8	3.75E-02	VAPA, STAT1, CAPG	9.19	0.95	0.36	0.35
GOTERM_CC_DIRECT	GO:0005913~cell-cell adherens junction	3	15.8	3.97E-02	VAPA, STAT1, CAPG	8.91	0.94	0.40	0.39
GOTERM_CC_DIRECT	GO:0005737~cytoplasm	10	52.6	4.53E-02	RPL21, KRT17, CRABP2, STAT1, NAMPT, ARHGDI, MSN, CAPG, CKB, PHB2	1.84	0.96	0.40	0.39
GOTERM_BP_DIRECT	GO:0014002~astrocyte development	2	10.5	1.70E-02	S100A9, S100A8	110.47	0.99	0.44	0.43
GOTERM_BP_DIRECT	GO:0051493~regulation of cytoskeleton organization	2	10.5	2.02E-02	S100A9, S100A8	93.03	1.00	0.48	0.47
UP_SEQ_FEATURE	calcium-binding region:1; low affinity	2	10.5	1.69E-02	S100A9, S100A8	111.15	0.71	0.48	0.48
UP_SEQ_FEATURE	calcium-binding region:2; high affinity	2	10.5	1.96E-02	S100A9, S100A8	96.00	0.76	0.48	0.48
GOTERM_BP_DIRECT	GO:0001816~cytokine production	2	10.5	2.65E-02	S100A9, S100A8	70.70	1.00	0.56	0.55
GOTERM_BP_DIRECT	GO:0050832~defense response to fungus	2	10.5	2.86E-02	S100A9, S100A8	65.47	1.00	0.56	0.55
GOTERM_BP_DIRECT	GO:0007267~cell-cell signaling	3	15.8	2.97E-02	NAMPT, IL18, S100A9	10.44	1.00	0.56	0.55
GOTERM_BP_DIRECT	GO:0098609~cell-cell adhesion	3	15.8	3.35E-02	VAPA, STAT1, CAPG	9.78	1.00	0.58	0.57
GOTERM_BP_DIRECT	GO:2001244~positive regulation of intrinsic apoptotic signaling pathway	2	10.5	3.48E-02	S100A9, S100A8	53.56	1.00	0.58	0.57
GOTERM_BP_DIRECT	GO:0010043~response to zinc ion	2	10.5	3.79E-02	SOD2, S100A8	49.10	1.00	0.60	0.59
UP_KEYWORDS	Nitration	2	10.5	4.37E-02	CKB, SOD2	42.48	0.97	0.60	0.59

UP_KEYWORDS	Ubl conjugation	5	26.3	5.62E-02	CAP1, KRT17, CRABP2, STAT1, UZAF2	3.18	0.99	0.66	0.65
UP_KEYWORDS	Cytoskeleton	4	21.1	7.40E-02	MYO18A, MSN, S100A9, S100A8	3.81	1.00	0.67	0.67
UP_KEYWORDS	Chemotaxis	2	10.5	8.16E-02	S100A9, S100A8	22.33	1.00	0.67	0.67
UP_KEYWORDS	Secreted	5	26.3	8.59E-02	NAMPT, IL18, CAPG, S100A9, S100A8	2.76	1.00	0.67	0.67
UP_KEYWORDS	Antimicrobial	2	10.5	9.04E-02	S100A9, S100A8	20.06	1.00	0.67	0.67
GOTERM_BP_DIRECT	GO:0042542~response to hydrogen peroxide	2	10.5	5.33E-02	STAT1, SOD2	34.66	1.00	0.80	0.78
INTERPRO	IPR001751:S100/Calbindin-D9k, conserved site	2	10.5	2.40E-02	S100A9, S100A8	78.14	0.86	0.80	0.80
INTERPRO	IPR013787:S100/CaBP-9k-type, calcium binding, subdomain	2	10.5	2.78E-02	S100A9, S100A8	67.36	0.90	0.80	0.80
INTERPRO	IPR011992:EF-hand-like domain	3	15.8	2.94E-02	STAT1, S100A9, S100A8	10.50	0.91	0.80	0.80
GOTERM_BP_DIRECT	GO:0006954~inflammatory response	3	15.8	6.13E-02	IL18, S100A9, S100A8	7.00	1.00	0.83	0.82
GOTERM_BP_DIRECT	GO:0071407~cellular response to organic cyclic compound	2	10.5	6.14E-02	STAT1, IL18	29.96	1.00	0.83	0.82
GOTERM_BP_DIRECT	GO:0030593~neutrophil chemotaxis	2	10.5	6.85E-02	S100A9, S100A8	26.78	1.00	0.88	0.87
GOTERM_BP_DIRECT	GO:0043066~negative regulation of apoptotic process	3	15.8	8.43E-02	MYO18A, SOD2, PHB2	5.83	1.00	0.96	0.95
GOTERM_BP_DIRECT	GO:0006919~activation of cysteine-type endopeptidase activity involved in apoptotic process	2	10.5	8.54E-02	S100A9, S100A8	21.30	1.00	0.96	0.95
GOTERM_BP_DIRECT	GO:0008544~epidermis development	2	10.5	8.73E-02	KRT17, CRABP2	20.80	1.00	0.96	0.95
GOTERM_BP_DIRECT	GO:0006928~movement of cell or subcellular component	2	10.5	8.83E-02	ARHGDI1, MSN	20.55	1.00	0.96	0.95
KEGG_PATHWAY	hsa05321:Inflammatory bowel disease (IBD)	2	10.5	8.07E-02	STAT1, IL18	21.50	0.96	1.00	1.00

DAVID analysis with proteins with log 2 FC < -0.7 (n=19 top proteins) in Tr-BrM vs BrM

Category	Term	Count	%	PValue	Genes (Purple = KRT)	Fold Enrichment	Bonferroni	Benjamini	FDR
GOTERM_CC_DIRECT	GO:0070062~extracellular exosome	13	76	1.76E-07	PGAM1, KRT2, KRT1, AKR1C3, KRT10, APEH, UGDH, UCHL1, LGALS1, PSMB5, CDC37, DPYSL2, GARS	5.0	7.90E-06	7.90E-06	7.38E-06
GOTERM_CC_DIRECT	GO:0005737~cytoplasm	14	82	1.93E-05	PGAM1, KRT2, AKR1C3, KRT10, APEH, TPD52L2, NSFL1C, UCHL1, LGALS1, CDC37, DPYSL2, FAM120A, GARS, RPL18	2.9	8.68E-04	4.34E-04	4.05E-04
GOTERM_CC_DIRECT	GO:0005829~cytosol	11	65	1.07E-04	NSFL1C, UGDH, UCHL1, PSMB5, DPYSL2, CDC37, PGAM1, AKR1C3, GARS, APEH, RPL18	3.6	0.0048	0.0016	0.0015
UP_KEYWORDS	Phosphoprotein	15	88	1.29E-04	PGAM1, KRT2, KRT1, KRT10, APEH, TPD52L2, NSFL1C, UGDH, UCHL1, LGALS1, CDC37, DPYSL2, FAM120A, GARS, RPL18	2.2	0.0087	0.0088	0.0084

OMIM_DISEASE	113800~Epidermolytic hyperkeratosis	2	12	1.69E-03	KRT1, KRT10	948.0	0.020	0.010	0.010
OMIM_DISEASE	607602~Ichthyosis, cyclic, with epidermolytic hyperkeratosis	2	12	1.69E-03	KRT1, KRT10	948.0	0.020	0.010	0.010
UP_SEQ_FEATURE	region of interest:Coil 2	3	18	1.32E-03	KRT2, KRT1, KRT10	52.1	0.080	0.014	0.013
UP_SEQ_FEATURE	region of interest:Linker 12	3	18	1.32E-03	KRT2, KRT1, KRT10	52.1	0.080	0.014	0.013
UP_SEQ_FEATURE	region of interest:Coil 1B	3	18	1.56E-03	KRT2, KRT1, KRT10	47.8	0.094	0.014	0.013
UP_SEQ_FEATURE	region of interest:Linker 1	3	18	1.56E-03	KRT2, KRT1, KRT10	47.8	0.094	0.014	0.013
UP_SEQ_FEATURE	region of interest:Coil 1A	3	18	1.56E-03	KRT2, KRT1, KRT10	47.8	0.094	0.014	0.013
UP_SEQ_FEATURE	region of interest:Rod	3	18	1.60E-03	KRT2, KRT1, KRT10	47.2	0.096	0.014	0.013
UP_SEQ_FEATURE	region of interest:Head	3	18	1.68E-03	KRT2, KRT1, KRT10	46.0	0.10	0.014	0.013
UP_SEQ_FEATURE	region of interest:Tail	3	18	1.77E-03	KRT2, KRT1, KRT10	44.8	0.11	0.014	0.013
UP_KEYWORDS	Ichthyosis	3	18	4.34E-04	KRT2, KRT1, KRT10	90.8	0.029	0.015	0.014
SMART	SM01391:SM01391	3	18	1.49E-03	KRT2, KRT1, KRT10	44.7	0.016	0.016	0.016
UP_KEYWORDS	Intermediate filament	3	18	1.60E-03	KRT2, KRT1, KRT10	47.2	0.10	0.036	0.035
INTERPRO	IPR018039:Intermediate filament protein, conserved site	3	18	1.36E-03	KRT2, KRT1, KRT10	51.2	0.067	0.051	0.051
INTERPRO	IPR001664:Intermediate filament protein	3	18	2.01E-03	KRT2, KRT1, KRT10	42.0	0.098	0.051	0.051
GOTERM_CC_DIRECT	GO:0043209~myelin sheath	3	18	7.68E-03	UCHL1, DPYSL2, PGAM1	21.2	0.29	0.076	0.071
GOTERM_CC_DIRECT	GO:0016020~membrane	7	41	8.39E-03	DPYSL2, PGAM1, KRT2, KRT1, FAM120A, KRT10, RPL18	3.4	0.32	0.076	0.071
UP_KEYWORDS	Keratin	3	18	6.15E-03	KRT2, KRT1, KRT10	23.7	0.34	0.10	0.10
UP_KEYWORDS	Acetylation	8	47	9.94E-03	UGDH, LGALS1, CDC37, PGAM1, FAM120A, GARS, APEH, TPD52L2	2.8	0.49	0.14	0.13
UP_SEQ_FEATURE	binding site:Substrate	3	18	2.34E-02	UGDH, AKR1C3, GARS	11.8	0.78	0.17	0.15
UP_SEQ_FEATURE	site:Stutter	2	12	2.83E-02	KRT2, KRT1	65.6	0.84	0.18	0.16
GOTERM_CC_DIRECT	GO:0005634~nucleus	10	59	2.41E-02	NSFL1C, UGDH, LGALS1, PSMB5, KRT2, KRT1, FAM120A, AKR1C3, KRT10, RPL18	2.0	0.67	0.18	0.17
UP_KEYWORDS	Cytoplasm	9	53	1.83E-02	UCHL1, PSMB5, DPYSL2, CDC37, FAM120A, AKR1C3, GARS, APEH, RPL18	2.3	0.72	0.21	0.20
GOTERM_MF_DIRECT	GO:0008242~omega peptidase activity	2	12	2.84E-03	UCHL1, APEH	662.0	0.19	0.21	0.21
GOTERM_CC_DIRECT	GO:0045111~intermediate filament cytoskeleton	2	12	4.47E-02	NSFL1C, KRT2	41.2	0.87	0.29	0.27
UP_KEYWORDS	Hydrolase	5	29	3.58E-02	UCHL1, PSMB5, PGAM1, GARS, APEH	3.6	0.92	0.34	0.32

UP_KEYWORDS	Methylation	4	24	4.00E-02	DPYSL2, KRT2, KRT1, FAM120A	4.8	0.94	0.34	0.32
INTERPRO	IPR003054:Type II keratin	2	12	2.39E-02	KRT2, KRT1	78.0	0.71	0.41	0.41
GOTERM_CC_DIRECT	GO:0045095~keratin filament	2	12	8.43E-02	KRT2, KRT1	21.4	0.98	0.47	0.44
GOTERM_CC_DIRECT	GO:0005882~intermediate filament	2	12	9.48E-02	KRT2, KRT10	19.0	0.99	0.47	0.44
UP_SEQ_FEATURE	mutagenesis site	5	29	8.87E-02	UCHL1, PSMB5, DPYSL2, AKR1C3, GARS	2.7	1.00	0.52	0.47
UP_SEQ_FEATURE	region of interest:Substrate binding	2	12	9.95E-02	UGDH, GARS	18.0	1.00	0.53	0.48
GOTERM_BP_DIRECT	GO:0043161~proteasome-mediated ubiquitin-dependent protein catabolic process	3	18	1.38E-02	NSFL1C, UCHL1, PSMB5	15.5	0.88	1.00	1.00
GOTERM_MF_DIRECT	GO:0019901~protein kinase binding	3	18	4.83E-02	DPYSL2, CDC37, PGAM1	7.9	0.98	1.00	1.00
GOTERM_BP_DIRECT	GO:0030216~keratinocyte differentiation	2	12	6.58E-02	AKR1C3, KRT10	27.6	1.00	1.00	1.00
GOTERM_MF_DIRECT	GO:0043130~ubiquitin binding	2	12	7.15E-02	NSFL1C, UCHL1	25.5	1.00	1.00	1.00
GOTERM_MF_DIRECT	GO:0044822~poly(A) RNA binding	4	24	8.70E-02	LGALS1, FAM120A, APEH, TPD52L2	3.5	1.00	1.00	1.00
GOTERM_BP_DIRECT	GO:0006979~response to oxidative stress	2	12	9.39E-02	PSMB5, KRT1	19.1	1.00	1.00	1.00

Supplementary Table 2: DAVID functional annotation of pathways significantly enriched among proteins differentially expressed in PC9-Tr-BrM (\log_2 FC > 0.7) and PC9-BrM (\log_2 FC < -0.7). Gene sets that include S100A9 are highlighted with red font.

Supplementary Table 3 (PC9 model)

Gene	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj	Significant
PI3	5186	-4.82	0.053	-90.29	0	0	UP
S100A9	8768	-2.61	0.031	-83.08	0	0	UP
ASS1	3706	-2.63	0.041	-63.53	0	0	UP
TFPI2	6132	-2.61	0.043	-60.09	0	0	UP
MUC16	4730	-2.45	0.041	-59.45	0	0	UP
SVEP1	1413	-4.01	0.078	-51.59	0	0	UP
MSLN	1388	-3.79	0.076	-49.81	0	0	UP
KRT6B	1726	-2.47	0.055	-44.74	0	0	UP
MUC5B	1169	-4.97	0.114	-43.70	0	0	UP
ALDH1A1	1146	-5.66	0.133	-42.54	0	0	UP
H19	3312	-8.73	0.211	-41.40	0	0	UP
SLC1A3	1139	-2.69	0.069	-39.27	0	0	UP
CES1	10165	-12.03	0.373	-32.22	9.61E-228	1.86E-225	UP
FSTL1	619	-3.22	0.101	-31.78	1.30E-221	2.39E-219	UP
DOCK11	715	-2.62	0.084	-31.14	6.17E-213	1.08E-210	UP
CFD	687	-2.54	0.086	-29.61	1.06E-192	1.44E-190	UP
WNT6	668	-2.52	0.086	-29.36	2.05E-189	2.65E-187	UP
SUSD2	539	-3.55	0.121	-29.21	1.64E-187	2.06E-185	UP
NCF2	605	-2.77	0.095	-29.18	3.06E-187	3.81E-185	UP
DNER	406	-4.07	0.148	-27.57	2.25E-167	2.53E-165	UP
EDN1	479	-2.94	0.107	-27.54	5.26E-167	5.82E-165	UP
MYPN	519	-2.66	0.100	-26.48	1.64E-154	1.57E-152	UP
KRT4	445	-5.75	0.218	-26.44	4.20E-154	3.99E-152	UP
B4GALNT3	424	-2.77	0.109	-25.32	2.15E-141	1.80E-139	UP
SORBS1	336	-3.35	0.136	-24.65	3.41E-134	2.63E-132	UP
STEAP4	447	-2.52	0.104	-24.33	9.24E-131	6.82E-129	UP
ADAMTS12	302	-3.80	0.157	-24.14	9.78E-129	7.11E-127	UP
PSG5	306	-4.22	0.177	-23.86	8.87E-126	6.19E-124	UP
KLHDC7B	263	-4.15	0.185	-22.43	2.21E-111	1.28E-109	UP
NCCRP1	245	-4.34	0.198	-21.91	2.32E-	1.27E-	UP

Supplementary Table 3 (PC9 model)

					106	104	
ABCA12	281	-3.01	0.141	-21.36	3.07E-101	1.57E-99	UP
QPRT	237	-3.75	0.179	-21.00	5.95E-98	2.86E-96	UP
KRT17	385	-6.95	0.341	-20.39	2.06E-92	9.09E-91	UP
SLC22A31	211	-4.30	0.216	-19.92	2.52E-88	1.05E-86	UP
BMP2	299	-2.58	0.132	-19.59	2.07E-85	8.22E-84	UP
KRT23	1619	-10.48	0.547	-19.16	8.32E-82	3.15E-80	UP
MAGEA1	217	-5.66	0.302	-18.72	3.64E-78	1.32E-76	UP
C1S	267	-2.40	0.132	-18.22	3.62E-74	1.20E-72	UP
SGPP2	213	-2.81	0.158	-17.78	9.37E-71	2.89E-69	UP
S100A8	328	-7.27	0.410	-17.75	1.80E-70	5.52E-69	UP
KRT5	350	-7.48	0.426	-17.59	3.14E-69	9.31E-68	UP
TYMP	224	-2.56	0.147	-17.39	1.03E-67	2.93E-66	UP
SLC7A2	170	-3.40	0.202	-16.84	1.29E-63	3.40E-62	UP
MUC6	179	-5.76	0.345	-16.70	1.37E-62	3.56E-61	UP
ROBO1	186	-6.06	0.368	-16.47	6.02E-61	1.50E-59	UP
CLMP	155	-3.03	0.190	-15.91	5.00E-57	1.17E-55	UP
BMP7	131	-4.91	0.313	-15.69	1.69E-55	3.80E-54	UP
SUSD4	123	-3.77	0.243	-15.53	2.18E-54	4.77E-53	UP
GALNT18	157	-2.81	0.184	-15.25	1.61E-52	3.41E-51	UP
SAA1	201	-6.80	0.449	-15.16	6.67E-52	1.39E-50	UP
ATP6V1C2	119	-3.52	0.236	-14.93	2.06E-50	4.13E-49	UP
PTCHD1	145	-5.87	0.395	-14.88	4.27E-50	8.49E-49	UP
KIF26A	140	-3.05	0.209	-14.62	2.00E-48	3.81E-47	UP
GGT5	140	-6.04	0.422	-14.30	2.20E-46	3.94E-45	UP
LOXL4	105	-4.90	0.349	-14.04	8.56E-45	1.47E-43	UP
ABCA4	115	-3.04	0.221	-13.76	4.47E-43	7.34E-42	UP
DIO3	96	-4.28	0.312	-13.73	6.81E-43	1.11E-41	UP
THSD7A	120	-2.95	0.215	-13.70	1.00E-42	1.63E-41	UP
C6orf223	94	-4.41	0.324	-13.63	2.76E-42	4.44E-41	UP
ZDHHC11B	94	-3.88	0.290	-13.40	6.26E-41	9.67E-40	UP
PECAM1	94	-3.53	0.266	-13.26	4.03E-40	6.05E-39	UP
SLC6A14	992	-10.99	0.835	-13.17	1.25E-39	1.84E-38	UP
UGT1A7	90	-3.66	0.278	-13.14	1.90E-39	2.78E-38	UP
ELOVL3	94	-3.41	0.265	-12.86	7.63E-38	1.05E-36	UP
PALMD	102	-5.69	0.444	-12.83	1.12E-37	1.54E-36	UP
MGP	292	-4.26	0.344	-12.36	4.24E-35	5.38E-34	UP
PTGS1	84	-3.19	0.263	-12.13	7.09E-34	8.61E-33	UP

Supplementary Table 3 (PC9 model)

ACTBL2	90	-3.08	0.254	-12.12	8.40E-34	1.02E-32	UP
PIP5K1B	78	-3.63	0.301	-12.08	1.34E-33	1.61E-32	UP
SCNN1B	81	-3.33	0.279	-11.92	9.45E-33	1.11E-31	UP
KRT13	71	-4.72	0.405	-11.65	2.34E-31	2.60E-30	UP
TFF1	81	-5.47	0.471	-11.61	3.79E-31	4.17E-30	UP
SUN3	70	-3.70	0.319	-11.60	3.93E-31	4.32E-30	UP
VTN	96	-2.54	0.225	-11.29	1.42E-29	1.49E-28	UP
EFS	63	-3.59	0.326	-11.02	2.99E-28	3.04E-27	UP
RELN	66	-3.45	0.325	-10.59	3.23E-26	3.04E-25	UP
ELFN1-AS1	82	-2.45	0.235	-10.45	1.49E-25	1.36E-24	UP
SLC16A14	67	-2.83	0.275	-10.28	8.33E-25	7.39E-24	UP
KCNQ2	87	-2.42	0.238	-10.17	2.66E-24	2.32E-23	UP
CPE	80	-2.51	0.252	-9.96	2.18E-23	1.81E-22	UP
DDIT4L	53	-3.71	0.373	-9.95	2.43E-23	2.01E-22	UP
GUCY1B1	52	-3.56	0.362	-9.84	7.25E-23	5.87E-22	UP
TMPRSS3	54	-5.33	0.557	-9.58	9.75E-22	7.56E-21	UP
CA12	49	-3.66	0.390	-9.38	6.48E-21	4.87E-20	UP
ILD1R1	49	-3.23	0.347	-9.32	1.13E-20	8.39E-20	UP
HCN4	51	-3.05	0.332	-9.21	3.39E-20	2.45E-19	UP
SLC34A2	124	-10.44	1.187	-8.79	1.43E-18	9.70E-18	UP
HLA-F	59	-2.49	0.283	-8.79	1.51E-18	1.02E-17	UP
PRICKLE1	58	-2.41	0.276	-8.76	1.92E-18	1.29E-17	UP
A2ML1	58	-2.45	0.282	-8.70	3.19E-18	2.13E-17	UP
RYR1	66	-2.41	0.277	-8.68	3.92E-18	2.60E-17	UP
LINC01133	42	-3.29	0.380	-8.67	4.44E-18	2.94E-17	UP
DEGS2	38	-3.97	0.464	-8.57	1.07E-17	6.89E-17	UP
FOLR1	53	-2.56	0.299	-8.56	1.16E-17	7.51E-17	UP
INSL4	52	-2.63	0.308	-8.54	1.31E-17	8.43E-17	UP
OSBPL6	53	-2.56	0.306	-8.37	5.59E-17	3.45E-16	UP
GUCY1A1	36	-4.00	0.478	-8.37	5.83E-17	3.59E-16	UP
C9orf152	52	-2.76	0.331	-8.34	7.50E-17	4.59E-16	UP
SPATA6	36	-3.70	0.444	-8.33	8.15E-17	4.96E-16	UP
SELENBP1	105	-8.34	1.033	-8.07	6.91E-16	3.99E-15	UP
WAKMAR2	39	-3.05	0.381	-8.00	1.29E-15	7.33E-15	UP
REN	50	-2.47	0.312	-7.91	2.65E-15	1.48E-14	UP
FMOD	58	-9.35	1.196	-7.82	5.26E-15	2.90E-14	UP
LINC02015	33	-5.06	0.649	-7.79	6.46E-15	3.55E-14	UP

Supplementary Table 3 (PC9 model)

GGT6	106	-9.24	1.188	-7.78	7.25E-15	3.98E-14	UP
PCBP3	33	-3.35	0.430	-7.77	7.64E-15	4.18E-14	UP
LGI2	31	-4.04	0.521	-7.76	8.68E-15	4.73E-14	UP
CES1P1	48	-9.06	1.202	-7.54	4.72E-14	2.47E-13	UP
DIO3OS	33	-2.98	0.401	-7.43	1.11E-13	5.70E-13	UP
CSTA	42	-6.41	0.866	-7.40	1.41E-13	7.19E-13	UP
TNFSF12	26	-4.45	0.622	-7.15	8.53E-13	4.13E-12	UP
IL32	36	-2.51	0.364	-6.89	5.69E-12	2.62E-11	UP
CELF2	25	-4.89	0.714	-6.85	7.56E-12	3.46E-11	UP
PDZK1IP1	23	-7.98	1.222	-6.53	6.73E-11	2.87E-10	UP
SCAT1	25	-3.12	0.479	-6.51	7.49E-11	3.18E-10	UP
LINC0210 1	21	-7.87	1.230	-6.40	1.59E-10	6.57E-10	UP
TMEM59L	30	-2.73	0.432	-6.30	2.89E-10	1.17E-09	UP
ARHGAP4 4	28	-2.72	0.435	-6.26	3.88E-10	1.56E-09	UP
FAM155B	20	-4.03	0.648	-6.22	4.85E-10	1.93E-09	UP
RSPO3	20	-3.53	0.570	-6.20	5.79E-10	2.29E-09	UP
ELFN1	24	-2.79	0.453	-6.16	7.27E-10	2.86E-09	UP
SCNN1G	25	-2.69	0.438	-6.14	8.34E-10	3.26E-09	UP
SIRPG	23	-3.06	0.502	-6.10	1.06E-09	4.11E-09	UP
PGAM1P1	17	-7.54	1.237	-6.10	1.07E-09	4.14E-09	UP
MAOB	32	-2.41	0.400	-6.03	1.66E-09	6.36E-09	UP
PGBD5	20	-3.54	0.592	-5.98	2.17E-09	8.20E-09	UP
LINC0197 9	48	-3.30	0.562	-5.88	4.17E-09	1.54E-08	UP
ONECUT3	14	-7.32	1.247	-5.87	4.35E-09	1.60E-08	UP
RERG	18	-3.86	0.663	-5.82	5.78E-09	2.10E-08	UP
RGS16	18	-4.71	0.814	-5.79	7.06E-09	2.55E-08	UP
GLDN	23	-6.13	1.068	-5.74	9.69E-09	3.46E-08	UP
RCN3	17	-3.79	0.666	-5.69	1.29E-08	4.58E-08	UP
PSG8	20	-2.76	0.493	-5.60	2.19E-08	7.58E-08	UP
LINC0114 5	18	3.14	0.564	5.57	2.58E-08	8.89E-08	DN
HSD3BP5	20	2.80	0.502	5.58	2.37E-08	8.21E-08	DN
TBX20	22	6.87	1.226	5.60	2.09E-08	7.26E-08	DN
PIK3C2G	24	7.05	1.229	5.74	9.46E-09	3.38E-08	DN
NPBWR1	20	3.12	0.540	5.78	7.43E-09	2.68E-08	DN
KLHL4	14	7.25	1.248	5.81	6.30E-09	2.28E-08	DN
FES	25	2.64	0.452	5.85	4.94E-09	1.81E-08	DN
ADAMTS1 5	18	4.08	0.686	5.95	2.70E-09	1.01E-08	DN

Supplementary Table 3 (PC9 model)

ANKRD29	24	2.72	0.452	6.00	1.92E-09	7.29E-09	DN
SRPK3	22	3.15	0.522	6.04	1.51E-09	5.79E-09	DN
ADAMTS6	24	5.53	0.899	6.15	7.90E-10	3.10E-09	DN
KLF12	23	5.01	0.789	6.36	2.06E-10	8.44E-10	DN
HOXC4	21	7.79	1.224	6.36	2.02E-10	8.27E-10	DN
TCAF2	27	2.82	0.436	6.45	1.12E-10	4.68E-10	DN
C11orf86	27	2.93	0.451	6.50	8.10E-11	3.43E-10	DN
COL4A3	29	2.68	0.412	6.52	7.25E-11	3.08E-10	DN
MANCR	31	2.86	0.412	6.94	3.95E-12	1.84E-11	DN
L3MBTL3	42	2.41	0.335	7.20	6.05E-13	2.96E-12	DN
PROX1	30	5.11	0.703	7.26	3.78E-13	1.88E-12	DN
NLRP1	37	2.99	0.386	7.74	1.02E-14	5.54E-14	DN
UCN2	49	2.42	0.310	7.79	6.46E-15	3.55E-14	DN
CCDC169	37	3.24	0.403	8.03	9.67E-16	5.54E-15	DN
HOXC6	42	3.01	0.371	8.10	5.49E-16	3.18E-15	DN
ADGRV1	41	3.25	0.401	8.11	5.08E-16	2.95E-15	DN
C12orf75	39	3.39	0.416	8.14	3.94E-16	2.31E-15	DN
ACSL5	53	2.46	0.297	8.30	1.07E-16	6.48E-16	DN
SH3BGRL	39	3.55	0.423	8.39	4.67E-17	2.91E-16	DN
NRG1	42	4.29	0.479	8.95	3.41E-19	2.37E-18	DN
TCP11L2	54	2.88	0.319	9.02	1.84E-19	1.30E-18	DN
TLE4	45	4.39	0.479	9.17	4.75E-20	3.42E-19	DN
NR2F1-AS1	55	2.89	0.314	9.21	3.31E-20	2.39E-19	DN
MLLT11	63	2.73	0.293	9.32	1.13E-20	8.35E-20	DN
LYPD1	62	2.80	0.289	9.68	3.60E-22	2.85E-21	DN
DMD	50	4.21	0.432	9.73	2.25E-22	1.79E-21	DN
CDH2	407	12.08	1.181	10.23	1.46E-24	1.28E-23	DN
TRPV2	74	2.80	0.273	10.25	1.17E-24	1.03E-23	DN
HPGD	71	2.83	0.273	10.37	3.34E-25	3.00E-24	DN
SLC2A12	90	2.42	0.232	10.43	1.77E-25	1.61E-24	DN
FLRT2	85	2.73	0.255	10.72	8.37E-27	8.06E-26	DN
LPL	78	3.03	0.280	10.84	2.30E-27	2.26E-26	DN
NR2F1	63	3.72	0.343	10.85	2.05E-27	2.02E-26	DN
DUXAP8	107	2.49	0.227	10.94	7.42E-28	7.44E-27	DN
ADM5	76	2.91	0.265	10.99	4.24E-28	4.29E-27	DN
TNFRSF19	81	2.97	0.267	11.13	9.12E-29	9.39E-28	DN
RHBDL1	99	2.66	0.231	11.51	1.20E-30	1.30E-29	DN
PROCR	101	2.82	0.233	12.12	7.99E-34	9.69E-33	DN

Supplementary Table 3 (PC9 model)

TSPAN12	81	4.23	0.344	12.30	9.38E-35	1.18E-33	DN
VWA5B2	119	2.45	0.198	12.41	2.21E-35	2.84E-34	DN
CALHM3	103	2.91	0.229	12.67	8.14E-37	1.09E-35	DN
TTLL7	127	2.57	0.201	12.84	1.01E-37	1.39E-36	DN
SLC4A8	129	2.65	0.200	13.28	3.12E-40	4.70E-39	DN
GPX3	101	3.67	0.274	13.37	8.90E-41	1.37E-39	DN
MRC2	134	2.71	0.195	13.89	7.61E-44	1.28E-42	DN
NES	130	3.03	0.208	14.58	3.88E-48	7.32E-47	DN
CDYL2	333	8.12	0.553	14.69	7.13E-49	1.38E-47	DN
SDK1	137	2.96	0.200	14.78	1.90E-49	3.72E-48	DN
TRBC2	123	4.75	0.317	15.00	7.73E-51	1.56E-49	DN
BEND7	131	3.34	0.220	15.16	6.69E-52	1.40E-50	DN
FREM2	163	2.86	0.182	15.72	1.09E-55	2.45E-54	DN
EYA4	215	6.59	0.414	15.89	7.44E-57	1.74E-55	DN
TLR4	206	6.22	0.377	16.51	2.88E-61	7.28E-60	DN
PTGS2	143	4.07	0.246	16.56	1.42E-61	3.62E-60	DN
SPART	1135	2.55	0.139	18.34	4.02E-75	1.37E-73	DN
FILIP1L	280	2.57	0.138	18.65	1.15E-77	4.10E-76	DN
MFNG	209	3.16	0.167	18.89	1.41E-79	5.20E-78	DN
CCNG2	292	2.57	0.130	19.84	1.32E-87	5.42E-86	DN
SYNE1	246	3.42	0.163	20.99	8.95E-98	4.29E-96	DN
BST2	286	3.16	0.146	21.58	2.52E-103	1.33E-101	DN
TNIK	369	2.62	0.119	21.99	3.95E-107	2.19E-105	DN
DPYSL3	341	5.77	0.256	22.58	6.59E-113	3.85E-111	DN
NRCAM	444	2.58	0.110	23.47	8.99E-122	5.86E-120	DN
SRGN	488	2.56	0.105	24.36	4.85E-131	3.60E-129	DN
DOCK10	593	2.53	0.092	27.42	1.44E-165	1.54E-163	DN
EPB41L2	1542	8.75	0.318	27.51	1.22E-166	1.33E-164	DN
FHOD3	407	3.81	0.138	27.54	5.35E-167	5.87E-165	DN
TNC	1573	3.21	0.113	28.45	4.47E-178	5.38E-176	DN
LCP1	1055	7.03	0.217	32.43	1.17E-230	2.39E-228	DN
BCAT1	1056	6.73	0.197	34.22	1.28E-256	3.24E-254	DN
NUAK1	675	3.98	0.115	34.53	2.95E-261	7.63E-259	DN
PCSK9	1513	2.62	0.060	43.72	0	0	DN

Supplementary Table 3 (PC9 model)

SPOCK1	1349	3.29	0.071	46.57	0	0	DN
CACNG6	1943	2.74	0.054	50.35	0	0	DN
STC2	2930	2.51	0.046	54.15	0	0	DN
L1CAM	4978	2.44	0.039	62.29	0	0	DN
FN1	126016	4.74	0.022	217.7 6	0	0	DN

Supplementary Table 3: Shown are genes that are significantly differentially expressed between PC9-derived BrM and Tr-BrM cell lines identified by RNA-sequencing. Differential expression statistics from DESeq2 analysis are included for all significantly differentially expressed genes. See accompanying Figure 2.

Supplementary Table 4 (H1650 model)

ensembl_gene_id	external_gene	description	baseMean	log2FoldCh	lfcSE	stat	pvalue	padj
ENSG00000128422	KRT17	keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]	15990	-4.27	0.0338	-126.4	0	0
ENSG00000160932	LY6E	lymphocyte antigen 6 family member E [Source:HGNC Symbol;Acc:HGNC:6727]	15318	-2.92	0.0311	-93.8	0	0
ENSG00000115414	FN1	fibronectin 1 [Source:HGNC Symbol;Acc:HGNC:3778]	39749	-1.85	0.0272	-67.9	0	0
ENSG00000101144	BMP7	bone morphogenetic protein 7 [Source:HGNC Symbol;Acc:HGNC:1074]	4603	-2.49	0.0381	-65.4	0	0
ENSG00000167755	KLK6	kallikrein related peptidase 6 [Source:HGNC Symbol;Acc:HGNC:6367]	5153	-2.34	0.0365	-64.1	0	0
ENSG00000130203	APOE	apolipoprotein E [Source:HGNC Symbol;Acc:HGNC:613]	2452	-3.65	0.0612	-59.7	0	0
ENSG00000205420	KRT6A	keratin 6A [Source:HGNC Symbol;Acc:HGNC:6443]	5141	-2.12	0.0369	-57.5	0	0
ENSG00000137699	TRIM29	tripartite motif containing 29 [Source:HGNC Symbol;Acc:HGNC:17274]	7519	-1.94	0.0343	-56.6	0	0
ENSG00000163209	SPRR3	small proline rich protein 3 [Source:HGNC Symbol;Acc:HGNC:11268]	2221	-6.17	0.1161	-53.1	0	0
ENSG00000126016	AMOT	angiominin [Source:HGNC Symbol;Acc:HGNC:17810]	1628	-4.23	0.0812	-52.1	0	0
ENSG00000120885	CLU	clusterin [Source:HGNC Symbol;Acc:HGNC:2095]	3286	-2.23	0.0429	-52.0	0	0
ENSG00000218336	TENM3	teneurin transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:29944]	1477	-3.68	0.0729	-50.4	0	0
ENSG00000079215	SLC1A3	solute carrier family 1 member 3 [Source:HGNC Symbol;Acc:HGNC:10941]	1982	-2.82	0.0563	-50.1	0	0
ENSG00000099194	SCD	stearoyl-CoA desaturase [Source:HGNC Symbol;Acc:HGNC:10571]	13692	-1.33	0.0270	-49.5	0	0
ENSG00000197122	SRC	SRC proto-oncogene, non-receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:11283]	3131	-2.02	0.0423	-47.7	0	0
ENSG00000095739	BAMBI	BMP and activin membrane bound inhibitor [Source:HGNC Symbol;Acc:HGNC:30251]	2101	-2.50	0.0523	-47.7	0	0
ENSG00000163520	FBLN2	fibulin 2 [Source:HGNC Symbol;Acc:HGNC:3601]	1695	-2.88	0.0619	-46.6	0	0
ENSG00000168542	COL3A1	collagen type III alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2201]	1496	-3.26	0.0704	-46.3	0	0
ENSG00000135842	NIBAN1	niban apoptosis regulator 1 [Source:HGNC Symbol;Acc:HGNC:16784]	1445	-3.15	0.0685	-46.0	0	0
ENSG00000136758	YME1L1	YME1 like 1 ATPase [Source:HGNC Symbol;Acc:HGNC:12843]	9576	-1.39	0.0302	-46.0	0	0
ENSG00000162981	LRATD1	LRAT domain containing 1 [Source:HGNC Symbol;Acc:HGNC:20743]	1384	-5.45	0.1197	-45.5	0	0
ENSG00000124466	LYPD3	LY6/PLAUR domain containing 3 [Source:HGNC Symbol;Acc:HGNC:24880]	4608	-1.76	0.0392	-45.0	0	0
ENSG00000136695	IL36RN	interleukin 36 receptor antagonist [Source:HGNC Symbol;Acc:HGNC:15561]	1119	-4.64	0.1037	-44.8	0	0
ENSG00000150594	ADRA2A	adrenoceptor alpha 2A [Source:HGNC Symbol;Acc:HGNC:281]	1227	-3.73	0.0851	-43.9	0	0
ENSG00000111799	COL12A1	collagen type XII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2188]	3814	-1.70	0.0397	-42.9	0	0
ENSG00000066468	FGFR2	fibroblast growth factor receptor 2 [Source:HGNC Symbol;Acc:HGNC:3689]	2748	-1.89	0.0440	-42.9	0	0
ENSG00000110492	MDK	midkine [Source:HGNC Symbol;Acc:HGNC:6972]	1592	-2.35	0.0567	-41.4	0	0
ENSG00000153993	SEMA3D	semaphorin 3D [Source:HGNC Symbol;Acc:HGNC:10726]	2199	-1.99	0.0483	-41.2	0	0
ENSG00000166165	CKB	creatine kinase B [Source:HGNC Symbol;Acc:HGNC:1991]	3931	-1.77	0.0431	-41.0	0	0
ENSG00000140465	CYP1A1	cytochrome P450 family 1 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2595]	1327	-2.63	0.0646	-40.8	0	0
ENSG00000101670	LIPG	lipase G, endothelial type [Source:HGNC Symbol;Acc:HGNC:6623]	909	-4.21	0.1034	-40.7	0	0
ENSG00000170759	KIF5B	kinesin family member 5B [Source:HGNC Symbol;Acc:HGNC:6324]	10358	-1.29	0.0317	-40.6	0	0
ENSG00000137975	CLCA2	chloride channel accessory 2 [Source:HGNC Symbol;Acc:HGNC:2016]	1575	-2.31	0.0572	-40.4	0	0
ENSG00000115468	EFHD1	EF-hand domain family member D1 [Source:HGNC Symbol;Acc:HGNC:29556]	1788	-2.21	0.0546	-40.4	0	0
ENSG00000143061	IGSF3	immunoglobulin superfamily member 3 [Source:HGNC Symbol;Acc:HGNC:5950]	3176	-1.62	0.0405	-40.1	0	0
ENSG00000086570	FAT2	FAT atypical cadherin 2 [Source:HGNC Symbol;Acc:HGNC:3596]	1824	-7.32	0.1825	-40.1	0	0
ENSG00000113396	SLC27A6	solute carrier family 27 member 6 [Source:HGNC Symbol;Acc:HGNC:11000]	1056	-3.01	0.0762	-39.5	0	0
ENSG00000123572	NRK	Nik related kinase [Source:HGNC Symbol;Acc:HGNC:25391]	872	-3.64	0.0933	-39.0	0	0
ENSG00000171617	ENC1	ectodermal-neural cortex 1 [Source:HGNC Symbol;Acc:HGNC:3345]	5031	-1.43	0.0366	-39.0	0	0
ENSG00000131037	EPS8L1	EPS8 like 1 [Source:HGNC Symbol;Acc:HGNC:21295]	856	-4.22	0.1081	-39.0	0	0
ENSG00000095787	WAC	WW domain containing adaptor with coiled-coil [Source:HGNC Symbol;Acc:HGNC:17327]	5509	-1.41	0.0362	-39.0	0	0

ENSG00000163347	CLDN1	claudin 1 [Source:HGNC Symbol;Acc:HGNC:2032]	3213	-1.53	0.0392	-38.9	0	0
ENSG00000088305	DNMT3B	DNA methyltransferase 3 beta [Source:HGNC Symbol;Acc:HGNC:2979]	1448	-2.18	0.0581	-37.5	5.5E-308	1.0E-305
ENSG00000213626	LBH	LBH regulator of WNT signaling pathway [Source:HGNC Symbol;Acc:HGNC:29532]	1985	-1.88	0.0506	-37.1	5.4E-302	9.8E-300
ENSG00000143217	NECTIN4	nectin cell adhesion molecule 4 [Source:HGNC Symbol;Acc:HGNC:19688]	1191	-2.54	0.0685	-37.1	5.1E-301	9.1E-299
ENSG00000164687	FABP5	fatty acid binding protein 5 [Source:HGNC Symbol;Acc:HGNC:3560]	2556	-2.11	0.0569	-37.1	6.7E-301	1.2E-298
ENSG00000059804	SLC2A3	solute carrier family 2 member 3 [Source:HGNC Symbol;Acc:HGNC:11007]	1997	-1.87	0.0507	-36.8	6.6E-297	1.1E-294
ENSG00000187210	GCNT1	glucosaminyl (N-acetyl) transferase 1 [Source:HGNC Symbol;Acc:HGNC:4203]	1091	-2.72	0.0743	-36.6	4.7E-293	8.2E-291
ENSG00000211584	SLC48A1	solute carrier family 48 member 1 [Source:HGNC Symbol;Acc:HGNC:26035]	1085	-2.46	0.0681	-36.1	1.9E-285	3.2E-283
ENSG00000149418	ST14	ST14 transmembrane serine protease matriptase [Source:HGNC Symbol;Acc:HGNC:11344]	18510	-0.86	0.0239	-36.0	2.3E-283	3.8E-281
ENSG00000135048	CEMIP2	cell migration inducing hyaluronidase 2 [Source:HGNC Symbol;Acc:HGNC:11869]	6394	-1.19	0.0333	-35.8	9.5E-281	1.6E-278
ENSG00000204323	SMIM5	small integral membrane protein 5 [Source:HGNC Symbol;Acc:HGNC:40030]	761	-3.36	0.0942	-35.7	5.0E-279	8.2E-277
ENSG00000116679	IVNS1ABP	influenza virus NS1A binding protein [Source:HGNC Symbol;Acc:HGNC:16951]	4294	-1.29	0.0363	-35.6	8.0E-278	1.3E-275
ENSG00000144452	ABCA12	ATP binding cassette subfamily A member 12 [Source:HGNC Symbol;Acc:HGNC:14637]	796	-3.17	0.0892	-35.6	3.8E-277	6.1E-275
ENSG00000142910	TINAGL1	tubulointerstitial nephritis antigen like 1 [Source:HGNC Symbol;Acc:HGNC:19168]	5916	-1.64	0.0461	-35.5	1.0E-276	1.7E-274
ENSG00000128591	FLNC	filamin C [Source:HGNC Symbol;Acc:HGNC:3756]	2081	-1.99	0.0564	-35.3	6.4E-273	1.0E-270
ENSG00000169851	PCDH7	protocadherin 7 [Source:HGNC Symbol;Acc:HGNC:8659]	1137	-2.30	0.0657	-35.0	2.7E-268	4.1E-266
ENSG00000204103	MAFB	MAF bZIP transcription factor B [Source:HGNC Symbol;Acc:HGNC:6408]	2077	-1.95	0.0556	-35.0	6.6E-268	1.0E-265
ENSG00000060656	PTPRU	protein tyrosine phosphatase receptor type U [Source:HGNC Symbol;Acc:HGNC:9683]	2531	-1.62	0.0466	-34.8	7.1E-266	1.1E-263
ENSG00000165757	JCAD	junctional cadherin 5 associated [Source:HGNC Symbol;Acc:HGNC:29283]	1396	-2.11	0.0606	-34.8	1.6E-265	2.3E-263
ENSG00000087586	AURKA	aurora kinase A [Source:HGNC Symbol;Acc:HGNC:11393]	7138	-1.16	0.0334	-34.7	2.0E-264	3.0E-262
ENSG00000148798	INA	internexin neuronal intermediate filament protein alpha [Source:HGNC Symbol;Acc:HGNC:6057]	6359	-1.21	0.0353	-34.3	7.2E-258	1.0E-255
ENSG00000175567	UCP2	uncoupling protein 2 [Source:HGNC Symbol;Acc:HGNC:12518]	2384	-1.52	0.0442	-34.3	2.2E-257	3.2E-255
ENSG00000172478	MAB21L4	mab-21 like 4 [Source:HGNC Symbol;Acc:HGNC:26216]	1221	-2.16	0.0632	-34.2	7.4E-256	1.0E-253
ENSG00000141753	IGFBP4	insulin like growth factor binding protein 4 [Source:HGNC Symbol;Acc:HGNC:5473]	2916	-1.43	0.0420	-34.0	3.8E-253	5.2E-251
ENSG00000163629	PTPN13	protein tyrosine phosphatase non-receptor type 13 [Source:HGNC Symbol;Acc:HGNC:9646]	2389	-1.55	0.0457	-33.9	8.8E-252	1.2E-249
ENSG00000076716	GPC4	glypican 4 [Source:HGNC Symbol;Acc:HGNC:4452]	615	-4.10	0.1216	-33.7	4.3E-249	5.8E-247
ENSG00000182492	BGN	biglycan [Source:HGNC Symbol;Acc:HGNC:1044]	680	-5.24	0.1565	-33.5	9.5E-246	1.3E-243
ENSG00000101193	GID8	GID complex subunit 8 homolog [Source:HGNC Symbol;Acc:HGNC:15857]	4486	-1.15	0.0347	-33.2	6.1E-242	7.8E-240
ENSG00000137747	TMPRSS13	transmembrane serine protease 13 [Source:HGNC Symbol;Acc:HGNC:29808]	1437	-1.93	0.0581	-33.2	8.1E-242	1.0E-239
ENSG00000019186	CYP24A1	cytochrome P450 family 24 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2602]	621	-4.78	0.1441	-33.2	5.0E-241	6.3E-239
ENSG00000173391	OLR1	oxidized low density lipoprotein receptor 1 [Source:HGNC Symbol;Acc:HGNC:8133]	646	-5.06	0.1541	-32.8	1.4E-236	1.7E-234
ENSG00000136754	ABI1	abl interactor 1 [Source:HGNC Symbol;Acc:HGNC:11320]	4670	-1.15	0.0352	-32.8	6.4E-236	7.7E-234
ENSG00000116990	MYCL	MYCL proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7555]	618	-3.40	0.1042	-32.6	2.8E-233	3.3E-231
ENSG00000181143	MUC16	mucin 16, cell surface associated [Source:HGNC Symbol;Acc:HGNC:15582]	613	-4.75	0.1457	-32.6	1.5E-232	1.8E-230
ENSG00000166535	A2ML1	alpha-2-macroglobulin like 1 [Source:HGNC Symbol;Acc:HGNC:23336]	3711	-1.22	0.0374	-32.5	1.0E-231	1.2E-229
ENSG00000132470	ITGB4	integrin subunit beta 4 [Source:HGNC Symbol;Acc:HGNC:6158]	7353	-0.94	0.0291	-32.4	6.9E-230	7.9E-228
ENSG00000153404	PLEKHG4B	pleckstrin homology and RhoGEF domain containing G4B [Source:HGNC Symbol;Acc:HGNC:29399]	619	-3.51	0.1086	-32.3	1.9E-229	2.2E-227
ENSG00000128268	MGAT3	beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase [Source:HGNC Symbol;Acc:HGNC:10498]	581	-4.13	0.1282	-32.2	9.9E-228	1.1E-225
ENSG00000143546	S100A8	S100 calcium binding protein A8 [Source:HGNC Symbol;Acc:HGNC:10498]	1441	-2.19	0.0682	-32.2	4.5E-227	5.1E-225
ENSG00000172594	SMPDL3A	sphingomyelin phosphodiesterase acid like 3A [Source:HGNC Symbol;Acc:HGNC:17389]	567	-4.13	0.1285	-32.2	6.7E-227	7.5E-225
ENSG00000087510	TFAP2C	transcription factor AP-2 gamma [Source:HGNC Symbol;Acc:HGNC:11744]	2315	-1.42	0.0450	-31.7	2.0E-220	2.1E-218
ENSG00000137266	SLC22A23	solute carrier family 22 member 23 [Source:HGNC Symbol;Acc:HGNC:21106]	1016	-2.35	0.0741	-31.7	3.8E-220	4.2E-218

ENSG00000163453	IGFBP7	insulin like growth factor binding protein 7 [Source:HGNC Symbol;Acc:HGNC:5476]	712	-3.16	0.1002	-31.6	6.7E-219	7.2E-217
ENSG00000169550	MUC15	mucin 15, cell surface associated [Source:HGNC Symbol;Acc:HGNC:14956]	685	-2.86	0.0914	-31.3	1.6E-215	1.7E-213
ENSG00000136153	LMO7	LIM domain 7 [Source:HGNC Symbol;Acc:HGNC:6646]	1829	-1.71	0.0549	-31.1	3.1E-212	3.3E-210
ENSG00000164930	FZD6	frizzled class receptor 6 [Source:HGNC Symbol;Acc:HGNC:4044]	2848	-1.24	0.0401	-30.9	5.2E-209	5.4E-207
ENSG00000117115	PADI2	peptidyl arginine deiminase 2 [Source:HGNC Symbol;Acc:HGNC:18341]	521	-4.53	0.1473	-30.8	5.2E-208	5.4E-206
ENSG00000185551	NR2F2	nuclear receptor subfamily 2 group F member 2 [Source:HGNC Symbol;Acc:HGNC:7976]	1535	-1.88	0.0615	-30.6	3.5E-205	3.6E-203
ENSG00000177494	ZBED2	zinc finger BED-type containing 2 [Source:HGNC Symbol;Acc:HGNC:20710]	560	-3.87	0.1269	-30.5	2.9E-204	2.9E-202
ENSG00000064787	BCAS1	brain enriched myelin associated protein 1 [Source:HGNC Symbol;Acc:HGNC:974]	522	-4.88	0.1608	-30.3	5.4E-202	5.3E-200
ENSG00000260032	NORAD	non-coding RNA activated by DNA damage [Source:HGNC Symbol;Acc:HGNC:44311]	10662	-0.82	0.0271	-30.2	2.6E-200	2.5E-198
ENSG00000224940	PRRT4	proline rich transmembrane protein 4 [Source:HGNC Symbol;Acc:HGNC:37280]	568	-2.98	0.0997	-29.8	1.1E-195	1.0E-193
ENSG00000102409	BEX4	brain expressed X-linked 4 [Source:HGNC Symbol;Acc:HGNC:25475]	474	-3.93	0.1329	-29.5	8.8E-192	8.2E-190
ENSG00000130508	PXDN	peroxidasin [Source:HGNC Symbol;Acc:HGNC:14966]	1859	-1.61	0.0545	-29.5	1.7E-191	1.6E-189
ENSG00000134317	GRHL1	grainyhead like transcription factor 1 [Source:HGNC Symbol;Acc:HGNC:17923]	897	-2.24	0.0760	-29.5	3.2E-191	2.9E-189
ENSG00000160145	KALRN	kalirin RhoGEF kinase [Source:HGNC Symbol;Acc:HGNC:4814]	466	-3.76	0.1287	-29.2	5.3E-188	4.7E-186
ENSG00000106066	CPVL	carboxypeptidase vitellogenic like [Source:HGNC Symbol;Acc:HGNC:14399]	800	-6.78	0.2324	-29.2	5.3E-187	4.6E-185
ENSG00000137393	RNF144B	ring finger protein 144B [Source:HGNC Symbol;Acc:HGNC:21578]	649	-2.60	0.0895	-29.0	1.7E-185	1.5E-183
ENSG00000163207	IVL	involucrin [Source:HGNC Symbol;Acc:HGNC:6187]	2728	-1.42	0.0491	-29.0	4.5E-185	3.9E-183
ENSG00000082397	EPB41L3	erythrocyte membrane protein band 4.1 like 3 [Source:HGNC Symbol;Acc:HGNC:3380]	495	-5.08	0.1750	-29.0	5.6E-185	4.8E-183
ENSG00000163283	ALPP	alkaline phosphatase, placental [Source:HGNC Symbol;Acc:HGNC:439]	8513	-0.90	0.0310	-29.0	7.5E-185	6.4E-183
ENSG00000143382	ADAMTSL4	ADAMTS like 4 [Source:HGNC Symbol;Acc:HGNC:19706]	864	-2.29	0.0792	-28.9	3.4E-184	2.9E-182
ENSG00000179750	APOBEC3B	apolipoprotein B mRNA editing enzyme catalytic subunit 3B [Source:HGNC Symbol;Acc:HGNC:17352]	2145	-1.41	0.0490	-28.9	2.1E-183	1.8E-181
ENSG00000164292	RHOBTB3	Rho related BTB domain containing 3 [Source:HGNC Symbol;Acc:HGNC:18757]	5696	-0.96	0.0333	-28.8	5.2E-183	4.3E-181
ENSG00000069812	HES2	hes family bHLH transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:16005]	455	-4.53	0.1577	-28.7	1.1E-181	8.8E-180
ENSG00000187094	CCK	cholecystokinin [Source:HGNC Symbol;Acc:HGNC:1569]	757	-2.68	0.0932	-28.7	1.8E-181	1.5E-179
ENSG00000150093	ITGB1	integrin subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:6153]	40872	-0.61	0.0212	-28.7	2.7E-181	2.2E-179
ENSG00000025772	TOMM34	translocase of outer mitochondrial membrane 34 [Source:HGNC Symbol;Acc:HGNC:15746]	2435	-1.38	0.0483	-28.6	2.1E-180	1.7E-178
ENSG00000166974	MAPRE2	microtubule associated protein RP/EB family member 2 [Source:HGNC Symbol;Acc:HGNC:6891]	799	-2.23	0.0778	-28.6	2.5E-180	2.1E-178
ENSG00000169047	IRS1	insulin receptor substrate 1 [Source:HGNC Symbol;Acc:HGNC:6125]	989	-2.00	0.0701	-28.5	7.1E-179	5.7E-177
ENSG00000105357	MYH14	myosin heavy chain 14 [Source:HGNC Symbol;Acc:HGNC:23212]	11425	-0.85	0.0299	-28.5	1.2E-178	9.8E-177
ENSG00000186350	RXRA	retinoid X receptor alpha [Source:HGNC Symbol;Acc:HGNC:10477]	3390	-1.08	0.0381	-28.5	1.9E-178	1.5E-176
ENSG00000107897	ACBD5	acyl-CoA binding domain containing 5 [Source:HGNC Symbol;Acc:HGNC:23338]	2369	-1.25	0.0440	-28.3	2.2E-176	1.7E-174
ENSG00000160796	NBEAL2	neurobeachin like 2 [Source:HGNC Symbol;Acc:HGNC:31928]	1922	-1.36	0.0484	-28.2	4.4E-175	3.4E-173
ENSG00000169710	FASN	fatty acid synthase [Source:HGNC Symbol;Acc:HGNC:3594]	9306	-0.86	0.0306	-28.2	2.2E-174	1.7E-172
ENSG00000154734	ADAMTSL1	ADAM metallopeptidase with thrombospondin type 1 motif 1 [Source:HGNC Symbol;Acc:HGNC:217]	437	-4.72	0.1685	-28.0	2.5E-172	2.0E-170
ENSG00000163293	NIPAL1	NIPA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:27194]	674	-2.35	0.0839	-28.0	6.4E-172	4.9E-170
ENSG00000183742	MACC1	MET transcriptional regulator MACC1 [Source:HGNC Symbol;Acc:HGNC:30215]	1573	-1.52	0.0546	-27.8	2.9E-170	2.2E-168
ENSG00000198728	LDB1	LIM domain binding 1 [Source:HGNC Symbol;Acc:HGNC:6532]	2383	-1.20	0.0435	-27.7	1.0E-168	7.9E-167
ENSG00000235750	KIAA0040	KIAA0040 [Source:HGNC Symbol;Acc:HGNC:28950]	2663	-1.16	0.0423	-27.5	1.5E-166	1.1E-164
ENSG00000172243	CLEC7A	C-type lectin domain containing 7A [Source:HGNC Symbol;Acc:HGNC:14558]	866	-2.04	0.0744	-27.5	3.1E-166	2.3E-164
ENSG00000101443	WFDC2	WAP four-disulfide core domain 2 [Source:HGNC Symbol;Acc:HGNC:15939]	440	-3.72	0.1356	-27.4	1.7E-165	1.2E-163
ENSG00000099246	RAB18	RAB18, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:14244]	3936	-1.03	0.0375	-27.4	2.9E-165	2.1E-163
ENSG00000169635	HIC2	HIC ZBTB transcriptional repressor 2 [Source:HGNC Symbol;Acc:HGNC:18595]	802	-2.08	0.0760	-27.4	3.9E-165	2.8E-163

ENSG00000110400	NECTIN1	nectin cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:9706]	2433	-1.41	0.0518	-27.1	5.2E-162	3.8E-160
ENSG00000170962	PDGFD	platelet derived growth factor D [Source:HGNC Symbol;Acc:HGNC:30620]	473	-3.30	0.1216	-27.1	6.4E-162	4.6E-160
ENSG00000158055	GRHL3	grainyhead like transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:25839]	530	-2.73	0.1012	-27.0	7.0E-161	5.0E-159
ENSG00000068650	ATP11A	ATPase phospholipid transporting 11A [Source:HGNC Symbol;Acc:HGNC:13552]	1534	-1.52	0.0564	-26.9	6.1E-160	4.3E-158
ENSG00000134762	DSC3	desmocollin 3 [Source:HGNC Symbol;Acc:HGNC:3037]	1068	-1.76	0.0656	-26.8	6.9E-158	4.8E-156
ENSG00000176531	PHLDB3	pleckstrin homology like domain family B member 3 [Source:HGNC Symbol;Acc:HGNC:30499]	1232	-1.63	0.0609	-26.8	8.8E-158	6.1E-156
ENSG00000101199	ARFGAP1	ADP ribosylation factor GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:15852]	6580	-0.82	0.0307	-26.8	1.2E-157	8.2E-156
ENSG00000138449	SLC40A1	solute carrier family 40 member 1 [Source:HGNC Symbol;Acc:HGNC:10909]	399	-4.56	0.1707	-26.7	3.7E-157	2.5E-155
ENSG00000179361	ARID3B	AT-rich interaction domain 3B [Source:HGNC Symbol;Acc:HGNC:14350]	548	-2.57	0.0964	-26.7	4.3E-157	2.9E-155
ENSG00000101182	PSMA7	proteasome 20S subunit alpha 7 [Source:HGNC Symbol;Acc:HGNC:9536]	23864	-0.71	0.0268	-26.7	1.3E-156	9.0E-155
ENSG00000149658	YTHDF1	YTH N6-methyladenosine RNA binding protein 1 [Source:HGNC Symbol;Acc:HGNC:15867]	4182	-0.92	0.0346	-26.5	3.3E-155	2.2E-153
ENSG00000152661	GJA1	gap junction protein alpha 1 [Source:HGNC Symbol;Acc:HGNC:4274]	383	-4.10	0.1547	-26.5	5.7E-155	3.9E-153
ENSG00000164050	PLXNB1	plexin B1 [Source:HGNC Symbol;Acc:HGNC:9103]	1956	-1.28	0.0482	-26.5	2.3E-154	1.6E-152
ENSG00000150054	MPP7	membrane palmitoylated protein 7 [Source:HGNC Symbol;Acc:HGNC:26542]	1297	-1.54	0.0584	-26.4	7.7E-154	5.1E-152
ENSG00000167123	CERCAM	cerebral endothelial cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:23723]	3769	-0.99	0.0379	-26.2	1.8E-151	1.2E-149
ENSG00000035862	TIMP2	TIMP metalloproteinase inhibitor 2 [Source:HGNC Symbol;Acc:HGNC:11821]	5755	-0.82	0.0315	-26.2	3.6E-151	2.4E-149
ENSG00000101134	DOK5	docking protein 5 [Source:HGNC Symbol;Acc:HGNC:16173]	769	-2.07	0.0792	-26.2	7.2E-151	4.7E-149
ENSG00000115993	TRAK2	trafficking kinesin protein 2 [Source:HGNC Symbol;Acc:HGNC:13206]	1691	-1.47	0.0565	-26.1	9.2E-150	5.9E-148
ENSG00000065361	ERBB3	erb-b2 receptor tyrosine kinase 3 [Source:HGNC Symbol;Acc:HGNC:3431]	1332	-1.49	0.0574	-26.0	1.7E-149	1.1E-147
ENSG00000113161	HMGCR	3-hydroxy-3-methylglutaryl-CoA reductase [Source:HGNC Symbol;Acc:HGNC:5006]	4210	-0.91	0.0349	-26.0	9.4E-149	6.1E-147
ENSG00000123384	LRP1	LDL receptor related protein 1 [Source:HGNC Symbol;Acc:HGNC:6692]	3473	-1.28	0.0495	-26.0	1.3E-148	8.4E-147
ENSG00000132698	RAB25	RAB25, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:18238]	1667	-1.38	0.0532	-25.9	7.2E-148	4.6E-146
ENSG00000123243	ITIHS	inter-alpha-trypsin inhibitor heavy chain 5 [Source:HGNC Symbol;Acc:HGNC:21449]	391	-3.40	0.1320	-25.8	1.1E-146	7.2E-145
ENSG00000120539	MASTL	microtubule associated serine/threonine kinase like [Source:HGNC Symbol;Acc:HGNC:19042]	2201	-1.14	0.0444	-25.7	6.9E-146	4.3E-144
ENSG00000189143	CLDN4	claudin 4 [Source:HGNC Symbol;Acc:HGNC:2046]	10372	-0.76	0.0295	-25.6	6.2E-145	3.9E-143
ENSG00000117595	IRF6	interferon regulatory factor 6 [Source:HGNC Symbol;Acc:HGNC:6121]	1470	-1.35	0.0528	-25.6	6.3E-145	3.9E-143
ENSG00000131747	TOP2A	DNA topoisomerase II alpha [Source:HGNC Symbol;Acc:HGNC:11989]	9028	-0.79	0.0308	-25.6	1.4E-144	8.4E-143
ENSG00000218416	ENSG00000218416	novel transcript, antisense to GPC1	1517	-1.44	0.0564	-25.6	2.1E-144	1.3E-142
ENSG00000152234	ATP5F1A	ATP synthase F1 subunit alpha [Source:HGNC Symbol;Acc:HGNC:823]	8725	-0.81	0.0319	-25.5	1.1E-143	6.5E-142
ENSG00000196218	RYR1	ryanodine receptor 1 [Source:HGNC Symbol;Acc:HGNC:10483]	762	-2.02	0.0796	-25.4	1.5E-142	9.2E-141
ENSG00000112992	NNT	nicotinamide nucleotide transhydrogenase [Source:HGNC Symbol;Acc:HGNC:7863]	677	-2.14	0.0843	-25.4	1.6E-142	9.4E-141
ENSG00000074181	NOTCH3	notch receptor 3 [Source:HGNC Symbol;Acc:HGNC:7883]	3899	-1.06	0.0422	-25.2	6.3E-140	3.7E-138
ENSG00000170775	GPR37	G protein-coupled receptor 37 [Source:HGNC Symbol;Acc:HGNC:4494]	413	-2.90	0.1151	-25.2	1.1E-139	6.6E-138
ENSG00000176834	VSIG10	V-set and immunoglobulin domain containing 10 [Source:HGNC Symbol;Acc:HGNC:26078]	1619	-1.31	0.0521	-25.1	5.0E-139	2.9E-137
ENSG00000110921	MVK	mevalonate kinase [Source:HGNC Symbol;Acc:HGNC:7530]	1134	-1.59	0.0632	-25.1	6.4E-139	3.7E-137
ENSG00000134243	SORT1	sortilin 1 [Source:HGNC Symbol;Acc:HGNC:11186]	2308	-1.11	0.0441	-25.1	1.3E-138	7.4E-137
ENSG00000115525	ST3GAL5	ST3 beta-galactoside alpha-2,3-sialyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:10872]	335	-4.29	0.1713	-25.1	1.7E-138	9.6E-137
ENSG00000106484	MEST	mesoderm specific transcript [Source:HGNC Symbol;Acc:HGNC:7028]	980	-1.83	0.0730	-25.0	4.5E-138	2.6E-136
ENSG00000088756	ARHGAP28	Rho GTPase activating protein 28 [Source:HGNC Symbol;Acc:HGNC:25509]	346	-4.13	0.1650	-25.0	5.6E-138	3.2E-136
ENSG00000129151	BBOX1	gamma-butyrobetaine hydroxylase 1 [Source:HGNC Symbol;Acc:HGNC:964]	341	-3.93	0.1574	-25.0	2.1E-137	1.2E-135
ENSG00000148700	ADD3	adducin 3 [Source:HGNC Symbol;Acc:HGNC:245]	2701	-1.05	0.0424	-24.9	1.8E-136	1.0E-134
ENSG00000182541	LIMK2	LIM domain kinase 2 [Source:HGNC Symbol;Acc:HGNC:6614]	4194	-0.89	0.0358	-24.8	3.8E-136	2.1E-134

ENSG00000101421	CHMP4B	charged multivesicular body protein 4B [Source:HGNC Symbol;Acc:HGNC:16171]	7308	-0.79	0.0317	-24.8	5.1E-136	2.8E-134
ENSG00000122042	UBL3	ubiquitin like 3 [Source:HGNC Symbol;Acc:HGNC:12504]	1330	-1.60	0.0644	-24.8	7.4E-136	4.1E-134
ENSG00000099282	TSPAN15	tetraspanin 15 [Source:HGNC Symbol;Acc:HGNC:23298]	1423	-1.37	0.0554	-24.8	1.1E-135	5.9E-134
ENSG00000111859	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 [Source:HGNC Symbol;Acc:HGNC:7138]	712	-2.03	0.0817	-24.8	1.1E-135	6.3E-134
ENSG00000275023	MLLT6	MLLT6, PHD finger containing [Source:HGNC Symbol;Acc:HGNC:7138]	1306	-1.50	0.0607	-24.8	3.1E-135	1.7E-133
ENSG00000124702	KLHDC3	kelch domain containing 3 [Source:HGNC Symbol;Acc:HGNC:20704]	3177	-0.99	0.0402	-24.7	4.9E-135	2.7E-133
ENSG00000135636	DYSF	dysferlin [Source:HGNC Symbol;Acc:HGNC:3097]	2293	-1.09	0.0443	-24.7	7.7E-135	4.2E-133
ENSG00000124429	POF1B	POF1B actin binding protein [Source:HGNC Symbol;Acc:HGNC:13711]	321	-4.19	0.1715	-24.4	5.8E-132	3.1E-130
ENSG00000108639	SYNGR2	synaptogyrin 2 [Source:HGNC Symbol;Acc:HGNC:11499]	2821	-1.01	0.0414	-24.3	9.2E-131	4.9E-129
ENSG00000130702	LAMA5	laminin subunit alpha 5 [Source:HGNC Symbol;Acc:HGNC:6485]	20536	-0.76	0.0313	-24.3	1.2E-130	6.5E-129
ENSG00000168824	NSG1	neuronal vesicle trafficking associated 1 [Source:HGNC Symbol;Acc:HGNC:18790]	345	-3.30	0.1357	-24.3	1.6E-130	8.5E-129
ENSG00000139998	RAB15	RAB15, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:20150]	2504	-1.09	0.0449	-24.3	2.4E-130	1.3E-128
ENSG00000174808	BTC	betacellulin [Source:HGNC Symbol;Acc:HGNC:1121]	347	-3.45	0.1419	-24.3	2.6E-130	1.4E-128
ENSG00000101210	EEF1A2	eukaryotic translation elongation factor 1 alpha 2 [Source:HGNC Symbol;Acc:HGNC:3192]	15622	-0.61	0.0254	-24.2	6.3E-129	3.3E-127
ENSG00000138829	FBN2	fibrillin 2 [Source:HGNC Symbol;Acc:HGNC:3604]	452	-6.26	0.2594	-24.1	1.6E-128	8.1E-127
ENSG00000178445	GLDC	glycine decarboxylase [Source:HGNC Symbol;Acc:HGNC:4313]	316	-4.60	0.1911	-24.1	5.5E-128	2.9E-126
ENSG00000106541	AGR2	anterior gradient 2, protein disulphide isomerase family member [Source:HGNC Symbol;Acc:HGNC:328]	316	-3.65	0.1519	-24.0	3.0E-127	1.5E-125
ENSG00000182606	TRAK1	trafficking kinesin protein 1 [Source:HGNC Symbol;Acc:HGNC:29947]	1598	-1.26	0.0525	-24.0	6.2E-127	3.2E-125
ENSG00000197872	CYRIA	CYFIP related Rac1 interactor A [Source:HGNC Symbol;Acc:HGNC:25373]	474	-2.50	0.1046	-23.9	7.3E-126	3.7E-124
ENSG00000101444	AHCY	adenosylhomocysteinase [Source:HGNC Symbol;Acc:HGNC:343]	9005	-0.71	0.0297	-23.8	1.6E-125	8.0E-124
ENSG00000139629	GALNT6	polypeptide N-acetylgalactosaminyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:4128]	2375	-1.07	0.0448	-23.8	1.7E-125	8.8E-124
ENSG00000189184	PCDH18	protocadherin 18 [Source:HGNC Symbol;Acc:HGNC:14268]	302	-4.10	0.1723	-23.8	3.2E-125	1.6E-123
ENSG00000130294	KIF1A	kinesin family member 1A [Source:HGNC Symbol;Acc:HGNC:888]	847	-3.89	0.1634	-23.8	3.3E-125	1.7E-123
ENSG00000260401	ENSG00000260401	novel transcript, overlapping to P2RY2	610	-2.16	0.0906	-23.8	3.4E-125	1.7E-123
ENSG00000236609	ZNF853	zinc finger protein 853 [Source:HGNC Symbol;Acc:HGNC:21767]	523	-2.22	0.0936	-23.7	2.2E-124	1.1E-122
ENSG00000109861	CTSC	cathepsin C [Source:HGNC Symbol;Acc:HGNC:2528]	4238	-0.92	0.0388	-23.7	8.6E-124	4.3E-122
ENSG00000167600	CYP2S1	cytochrome P450 family 2 subfamily S member 1 [Source:HGNC Symbol;Acc:HGNC:15654]	449	-2.49	0.1054	-23.6	2.1E-123	1.0E-121
ENSG00000138759	FRAS1	Fraser extracellular matrix complex subunit 1 [Source:HGNC Symbol;Acc:HGNC:19185]	1845	-1.13	0.0476	-23.6	2.5E-123	1.2E-121
ENSG00000115596	WNT6	Wnt family member 6 [Source:HGNC Symbol;Acc:HGNC:12785]	693	-5.64	0.2390	-23.6	3.5E-123	1.7E-121
ENSG00000091986	CCDC80	coiled-coil domain containing 80 [Source:HGNC Symbol;Acc:HGNC:30649]	2629	-0.96	0.0408	-23.5	5.5E-122	2.7E-120
ENSG00000135069	PSAT1	phosphoserine aminotransferase 1 [Source:HGNC Symbol;Acc:HGNC:19129]	4979	-0.90	0.0382	-23.4	1.5E-121	7.1E-120
ENSG00000111275	ALDH2	aldehyde dehydrogenase 2 family member [Source:HGNC Symbol;Acc:HGNC:404]	306	-3.56	0.1524	-23.4	5.1E-121	2.5E-119
ENSG00000136155	SCEL	sciellin [Source:HGNC Symbol;Acc:HGNC:10573]	690	-1.88	0.0806	-23.3	2.7E-120	1.3E-118
ENSG00000175874	CREG2	cellular repressor of E1A stimulated genes 2 [Source:HGNC Symbol;Acc:HGNC:14272]	293	-3.95	0.1694	-23.3	5.5E-120	2.6E-118
ENSG00000168077	SCARA3	scavenger receptor class A member 3 [Source:HGNC Symbol;Acc:HGNC:19000]	1716	-1.16	0.0501	-23.2	1.5E-119	7.0E-118
ENSG00000135821	GLUL	glutamate-ammonia ligase [Source:HGNC Symbol;Acc:HGNC:4341]	6773	-0.70	0.0302	-23.2	2.0E-119	9.4E-118
ENSG00000123892	RAB38	RAB38, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9776]	306	-4.48	0.1929	-23.2	2.5E-119	1.2E-117
ENSG00000175868	CALCB	calcitonin related polypeptide beta [Source:HGNC Symbol;Acc:HGNC:1438]	337	-3.14	0.1352	-23.2	2.9E-119	1.4E-117
ENSG0000007866	TEAD3	TEA domain transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:11716]	2154	-1.07	0.0463	-23.2	3.3E-119	1.6E-117
ENSG00000081479	LRP2	LDL receptor related protein 2 [Source:HGNC Symbol;Acc:HGNC:6694]	721	-7.78	0.3365	-23.1	2.7E-118	1.3E-116
ENSG00000105223	PLD3	phospholipase D family member 3 [Source:HGNC Symbol;Acc:HGNC:17158]	3046	-0.92	0.0397	-23.1	4.6E-118	2.2E-116
ENSG00000165105	RASEF	RAS and EF-hand domain containing [Source:HGNC Symbol;Acc:HGNC:26464]	525	-2.26	0.0980	-23.1	6.4E-118	3.0E-116

ENSG00000140403	DNAJA4	DnaI heat shock protein family (Hsp40) member A4 [Source:HGNC Symbol;Acc:HGNC:14885]	1067	-1.45	0.0632	-22.9	2.0E-116	9.1E-115
ENSG00000197321	SVIL	supervillin [Source:HGNC Symbol;Acc:HGNC:11480]	4317	-0.88	0.0385	-22.9	1.1E-115	5.2E-114
ENSG00000052802	MSMO1	methylsterol monooxygenase 1 [Source:HGNC Symbol;Acc:HGNC:10545]	1617	-1.19	0.0518	-22.9	1.2E-115	5.4E-114
ENSG00000147676	MAL2	mal, T cell differentiation protein 2 [Source:HGNC Symbol;Acc:HGNC:13634]	15670	-0.79	0.0349	-22.8	5.0E-115	2.3E-113
ENSG00000134755	DSC2	desmocollin 2 [Source:HGNC Symbol;Acc:HGNC:3036]	3473	-0.95	0.0415	-22.8	8.7E-115	3.9E-113
ENSG00000143324	XPR1	xenotropic and polytropic retrovirus receptor 1 [Source:HGNC Symbol;Acc:HGNC:12827]	1541	-1.21	0.0534	-22.7	1.6E-114	7.4E-113
ENSG00000135926	TMBIM1	transmembrane BAX inhibitor motif containing 1 [Source:HGNC Symbol;Acc:HGNC:23410]	7177	-0.69	0.0304	-22.7	2.9E-114	1.3E-112
ENSG00000102243	VGLL1	vestigial like family member 1 [Source:HGNC Symbol;Acc:HGNC:20985]	2134	-1.06	0.0466	-22.7	6.7E-114	3.0E-112
ENSG00000112378	PERP	p53 apoptosis effector related to PMP22 [Source:HGNC Symbol;Acc:HGNC:17637]	17924	-0.57	0.0250	-22.6	1.6E-113	7.0E-112
ENSG00000103811	CTSH	cathepsin H [Source:HGNC Symbol;Acc:HGNC:2535]	2797	-1.16	0.0512	-22.6	2.9E-113	1.3E-111
ENSG00000141524	TMC6	transmembrane channel like 6 [Source:HGNC Symbol;Acc:HGNC:18021]	1777	-1.10	0.0485	-22.6	4.3E-113	1.9E-111
ENSG00000058335	RASGRF1	Ras protein specific guanine nucleotide releasing factor 1 [Source:HGNC Symbol;Acc:HGNC:9875]	298	-5.05	0.2235	-22.6	4.7E-113	2.1E-111
ENSG00000163362	INAVA	innate immunity activator [Source:HGNC Symbol;Acc:HGNC:25599]	504	-2.23	0.0987	-22.6	6.6E-113	2.9E-111
ENSG00000131620	ANO1	anoctamin 1 [Source:HGNC Symbol;Acc:HGNC:21625]	269	-4.28	0.1897	-22.6	1.2E-112	5.3E-111
ENSG00000105538	RASIP1	Ras interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24716]	814	-1.66	0.0737	-22.5	1.4E-112	6.2E-111
ENSG00000203485	INF2	inverted formin 2 [Source:HGNC Symbol;Acc:HGNC:23791]	2431	-0.97	0.0431	-22.5	2.1E-112	9.0E-111
ENSG00000130703	OSBPL2	oxysterol binding protein like 2 [Source:HGNC Symbol;Acc:HGNC:15761]	2561	-0.96	0.0427	-22.5	3.3E-112	1.4E-110
ENSG00000164116	GUCY1A1	guanylate cyclase 1 soluble subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:4685]	270	-4.04	0.1796	-22.5	5.1E-112	2.2E-110
ENSG00000165125	TRPV6	transient receptor potential cation channel subfamily V member 6 [Source:HGNC Symbol;Acc:HGNC:140	272	-3.85	0.1712	-22.5	6.6E-112	2.8E-110
ENSG00000150687	PRSS23	serine protease 23 [Source:HGNC Symbol;Acc:HGNC:14370]	16328	-0.61	0.0270	-22.4	1.5E-111	6.6E-110
ENSG00000149657	LSM14B	LSM family member 14B [Source:HGNC Symbol;Acc:HGNC:15887]	2883	-0.89	0.0398	-22.4	9.2E-111	3.9E-109
ENSG00000077420	APBB1IP	amyloid beta precursor protein binding family B member 1 interacting protein [Source:HGNC Symbol;Ac	1160	-1.37	0.0613	-22.4	9.8E-111	4.2E-109
ENSG00000101096	NFATC2	nuclear factor of activated T cells 2 [Source:HGNC Symbol;Acc:HGNC:7776]	637	-1.97	0.0882	-22.3	1.6E-110	6.9E-109
ENSG00000138434	ITPRID2	ITPR interacting domain containing 2 [Source:HGNC Symbol;Acc:HGNC:11319]	7882	-0.66	0.0296	-22.3	2.1E-110	8.8E-109
ENSG00000175591	P2RY2	purinergic receptor P2Y2 [Source:HGNC Symbol;Acc:HGNC:8541]	1436	-1.29	0.0580	-22.2	2.0E-109	8.4E-108
ENSG00000006118	TMEM132A	transmembrane protein 132A [Source:HGNC Symbol;Acc:HGNC:31092]	3384	-1.09	0.0492	-22.2	3.9E-109	1.6E-107
ENSG00000104687	GSR	glutathione-disulfide reductase [Source:HGNC Symbol;Acc:HGNC:4623]	1791	-1.09	0.0492	-22.2	4.8E-109	2.0E-107
ENSG00000166619	BLCAP	BLCAP apoptosis inducing factor [Source:HGNC Symbol;Acc:HGNC:1055]	7037	-0.66	0.0296	-22.2	6.3E-109	2.6E-107
ENSG00000168564	CDKN2AIP	CDKN2A interacting protein [Source:HGNC Symbol;Acc:HGNC:24325]	1201	-1.29	0.0584	-22.2	7.1E-109	2.9E-107
ENSG00000061918	GUCY1B1	guanylate cyclase 1 soluble subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:4687]	313	-3.18	0.1436	-22.1	1.1E-108	4.6E-107
ENSG00000105655	ISYNA1	inositol-3-phosphate synthase 1 [Source:HGNC Symbol;Acc:HGNC:29821]	1559	-1.19	0.0538	-22.1	2.0E-108	8.1E-107
ENSG00000196954	CASP4	caspase 4 [Source:HGNC Symbol;Acc:HGNC:1505]	2745	-0.98	0.0443	-22.1	7.4E-108	3.0E-106
ENSG00000185630	PBX1	PBX homeobox 1 [Source:HGNC Symbol;Acc:HGNC:8632]	736	-1.82	0.0825	-22.1	8.3E-108	3.4E-106
ENSG00000126001	CEP250	centrosomal protein 250 [Source:HGNC Symbol;Acc:HGNC:1859]	3280	-0.88	0.0401	-22.0	1.5E-107	6.2E-106
ENSG00000047644	WWC3	WWC family member 3 [Source:HGNC Symbol;Acc:HGNC:29237]	1318	-1.24	0.0563	-22.0	5.0E-107	2.0E-105
ENSG00000186212	SOWAHB	sofondwah ankyrin repeat domain family member B [Source:HGNC Symbol;Acc:HGNC:32958]	393	-2.45	0.1115	-21.9	1.2E-106	4.7E-105
ENSG00000005469	CROT	carnitine O-octanoyltransferase [Source:HGNC Symbol;Acc:HGNC:2366]	588	-1.87	0.0854	-21.9	1.7E-106	6.9E-105
ENSG00000135862	LAMC1	laminin subunit gamma 1 [Source:HGNC Symbol;Acc:HGNC:6492]	11824	-0.62	0.0281	-21.9	1.9E-106	7.6E-105
ENSG00000134363	FST	follicle-stimulating hormone receptor 1 [Source:HGNC Symbol;Acc:HGNC:3971]	269	-3.62	0.1657	-21.8	1.3E-105	5.3E-104
ENSG00000152495	CAMK4	calcium/calmodulin dependent protein kinase IV [Source:HGNC Symbol;Acc:HGNC:1464]	273	-3.97	0.1831	-21.7	3.1E-104	1.2E-102
ENSG00000150893	FREM2	FRAS1 related extracellular matrix 2 [Source:HGNC Symbol;Acc:HGNC:25396]	523	-7.32	0.3385	-21.6	1.4E-103	5.6E-102
ENSG00000167114	SLC27A4	solute carrier family 27 member 4 [Source:HGNC Symbol;Acc:HGNC:10998]	2341	-0.95	0.0439	-21.6	3.4E-103	1.3E-101

ENSG00000198399	ITSN2	intersectin 2 [Source:HGNC Symbol;Acc:HGNC:6184]	1646	-1.20	0.0556	-21.5	1.1E-102	4.4E-101
ENSG00000101846	STS	steroid sulfatase [Source:HGNC Symbol;Acc:HGNC:11425]	336	-2.62	0.1220	-21.5	1.6E-102	6.0E-101
ENSG00000104881	PPP1R13L	protein phosphatase 1 regulatory subunit 13 like [Source:HGNC Symbol;Acc:HGNC:18838]	4148	-0.76	0.0352	-21.5	2.1E-102	8.2E-101
ENSG00000184500	PROS1	protein S [Source:HGNC Symbol;Acc:HGNC:9456]	290	-3.11	0.1453	-21.4	6.0E-102	2.3E-100
ENSG00000112576	CCND3	cyclin D3 [Source:HGNC Symbol;Acc:HGNC:1585]	5928	-0.68	0.0317	-21.4	9.9E-102	3.8E-100
ENSG00000150556	LYPD6B	LY6/PLAUR domain containing 6B [Source:HGNC Symbol;Acc:HGNC:27018]	552	-1.91	0.0892	-21.4	1.1E-101	4.3E-100
ENSG00000108094	CUL2	cullin 2 [Source:HGNC Symbol;Acc:HGNC:2552]	2169	-0.98	0.0461	-21.2	4.3E-100	1.6E-98
ENSG00000157404	KIT	KIT proto-oncogene, receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:6342]	370	-2.43	0.1149	-21.1	5.5E-99	2.1E-97
ENSG00000110092	CCND1	cyclin D1 [Source:HGNC Symbol;Acc:HGNC:1582]	6190	-0.69	0.0326	-21.0	2.5E-98	9.4E-97
ENSG00000008513	ST3GAL1	ST3 beta-galactoside alpha-2,3-sialyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:10862]	6780	-0.64	0.0306	-21.0	3.1E-98	1.2E-96
ENSG00000196937	FAM3C	FAM3 metabolism regulating signaling molecule C [Source:HGNC Symbol;Acc:HGNC:18664]	3135	-0.88	0.0419	-21.0	3.5E-98	1.3E-96
ENSG00000011347	SYT7	synaptotagmin 7 [Source:HGNC Symbol;Acc:HGNC:11514]	510	-1.94	0.0926	-21.0	7.4E-98	2.8E-96
ENSG00000237289	CKMT1B	creatine kinase, mitochondrial 1B [Source:HGNC Symbol;Acc:HGNC:1995]	266	-3.56	0.1698	-21.0	1.1E-97	4.1E-96
ENSG00000164742	ADCY1	adenylate cyclase 1 [Source:HGNC Symbol;Acc:HGNC:232]	870	-1.52	0.0725	-20.9	3.8E-97	1.4E-95
ENSG00000189180	ZNF33A	zinc finger protein 33A [Source:HGNC Symbol;Acc:HGNC:13096]	795	-1.52	0.0725	-20.9	4.8E-97	1.8E-95
ENSG00000114541	FRMD4B	FERM domain containing 4B [Source:HGNC Symbol;Acc:HGNC:24886]	461	-2.08	0.0995	-20.9	6.0E-97	2.2E-95
ENSG00000011201	ANOS1	anosmin 1 [Source:HGNC Symbol;Acc:HGNC:6211]	591	-1.73	0.0830	-20.9	6.8E-97	2.5E-95
ENSG00000109255	NMU	neuromedin U [Source:HGNC Symbol;Acc:HGNC:7859]	266	-3.73	0.1789	-20.9	1.2E-96	4.4E-95
ENSG00000165322	ARHGAP12	Rho GTPase activating protein 12 [Source:HGNC Symbol;Acc:HGNC:16348]	1104	-1.25	0.0599	-20.8	1.8E-96	6.4E-95
ENSG00000112972	HMGCS1	3-hydroxy-3-methylglutaryl-CoA synthase 1 [Source:HGNC Symbol;Acc:HGNC:5007]	3770	-0.80	0.0386	-20.8	3.1E-96	1.1E-94
ENSG00000104549	SQLE	squalene epoxidase [Source:HGNC Symbol;Acc:HGNC:11279]	3764	-0.74	0.0358	-20.8	4.4E-96	1.6E-94
ENSG00000125848	FLRT3	fibronectin leucine rich transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:3762]	238	-3.53	0.1706	-20.7	2.8E-95	1.0E-93
ENSG00000130939	UBE4B	ubiquitination factor E4B [Source:HGNC Symbol;Acc:HGNC:12500]	2634	-0.95	0.0461	-20.7	5.5E-95	2.0E-93
ENSG00000073756	PTGS2	prostaglandin-endoperoxide synthase 2 [Source:HGNC Symbol;Acc:HGNC:9605]	248	-5.05	0.2451	-20.6	1.7E-94	6.0E-93
ENSG00000254635	WAC-AS1	WAC antisense RNA 1 (head to head) [Source:HGNC Symbol;Acc:HGNC:27347]	1163	-1.33	0.0644	-20.6	2.0E-94	7.1E-93
ENSG00000223573	TINCR	TINCR ubiquitin domain containing [Source:HGNC Symbol;Acc:HGNC:14607]	3325	-0.87	0.0425	-20.6	2.9E-94	1.0E-92
ENSG00000165323	FAT3	FAT atypical cadherin 3 [Source:HGNC Symbol;Acc:HGNC:23112]	677	-1.92	0.0932	-20.6	5.8E-94	2.1E-92
ENSG00000118777	ABCG2	ATP binding cassette subfamily G member 2 (Junior blood group) [Source:HGNC Symbol;Acc:HGNC:74]	1692	-1.01	0.0494	-20.5	1.8E-93	6.4E-92
ENSG00000148660	CAMK2G	calcium/calmodulin dependent protein kinase II gamma [Source:HGNC Symbol;Acc:HGNC:1463]	3477	-0.81	0.0398	-20.5	4.2E-93	1.5E-91
ENSG00000108100	CCNY	cyclin Y [Source:HGNC Symbol;Acc:HGNC:23354]	3334	-0.79	0.0388	-20.4	8.7E-93	3.0E-91
ENSG00000111110	PPM1H	protein phosphatase, Mg2+/Mn2+ dependent 1H [Source:HGNC Symbol;Acc:HGNC:18583]	1718	-1.03	0.0506	-20.4	9.0E-93	3.1E-91
ENSG00000088325	TPX2	TPX2 microtubule nucleation factor [Source:HGNC Symbol;Acc:HGNC:1249]	12322	-0.52	0.0257	-20.4	2.2E-92	7.8E-91
ENSG00000182481	KPNA2	karyopherin subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:6395]	9808	-0.67	0.0329	-20.3	6.9E-92	2.4E-90
ENSG00000136943	CTSV	cathepsin V [Source:HGNC Symbol;Acc:HGNC:2538]	9951	-0.60	0.0293	-20.3	9.0E-92	3.1E-90
ENSG00000173267	SNCG	synuclein gamma [Source:HGNC Symbol;Acc:HGNC:11141]	1447	-1.08	0.0534	-20.3	1.0E-91	3.4E-90
ENSG00000143412	ANXA9	annexin A9 [Source:HGNC Symbol;Acc:HGNC:547]	832	-1.42	0.0700	-20.3	1.7E-91	5.6E-90
ENSG00000167306	MYO5B	myosin VB [Source:HGNC Symbol;Acc:HGNC:7603]	1756	-1.05	0.0518	-20.3	2.7E-91	9.1E-90
ENSG00000140284	SLC27A2	solute carrier family 27 member 2 [Source:HGNC Symbol;Acc:HGNC:10996]	229	-3.79	0.1872	-20.3	3.3E-91	1.1E-89
ENSG00000078081	LAMP3	lysosomal associated membrane protein 3 [Source:HGNC Symbol;Acc:HGNC:14582]	966	-1.32	0.0650	-20.3	3.5E-91	1.2E-89
ENSG00000149639	SOGA1	suppressor of glucose, autophagy associated 1 [Source:HGNC Symbol;Acc:HGNC:16111]	2739	-0.92	0.0457	-20.2	4.4E-91	1.5E-89
ENSG00000127084	FGD3	FYVE, RhoGEF and PH domain containing 3 [Source:HGNC Symbol;Acc:HGNC:16027]	473	-1.92	0.0950	-20.2	5.6E-91	1.9E-89
ENSG00000101311	FERMT1	fermitin family member 1 [Source:HGNC Symbol;Acc:HGNC:15889]	974	-1.36	0.0672	-20.2	8.9E-91	3.0E-89

ENSG00000185262	UBALD2	UBA like domain containing 2 [Source:HGNC Symbol;Acc:HGNC:28438]	1060	-1.24	0.0612	-20.2	1.1E-90	3.6E-89
ENSG00000134046	MBD2	methyl-CpG binding domain protein 2 [Source:HGNC Symbol;Acc:HGNC:6917]	2462	-0.86	0.0427	-20.2	1.2E-90	4.1E-89
ENSG00000134779	TPGS2	tubulin polyglutamylase complex subunit 2 [Source:HGNC Symbol;Acc:HGNC:24561]	3002	-0.79	0.0390	-20.2	1.4E-90	4.8E-89
ENSG00000176485	PLAAT3	phospholipase A and acyltransferase 3 [Source:HGNC Symbol;Acc:HGNC:17825]	960	-1.32	0.0654	-20.2	2.1E-90	7.1E-89
ENSG00000137857	DUOX1	dual oxidase 1 [Source:HGNC Symbol;Acc:HGNC:3062]	225	-3.69	0.1833	-20.1	3.7E-90	1.2E-88
ENSG00000100842	EFS	embryonal Fyn-associated substrate [Source:HGNC Symbol;Acc:HGNC:16898]	247	-3.27	0.1626	-20.1	5.0E-90	1.7E-88
ENSG00000081052	COL4A4	collagen type IV alpha 4 chain [Source:HGNC Symbol;Acc:HGNC:2206]	236	-3.27	0.1631	-20.0	2.6E-89	8.7E-88
ENSG00000197622	CDC42SE1	CDC42 small effector 1 [Source:HGNC Symbol;Acc:HGNC:17719]	2516	-0.84	0.0418	-20.0	3.1E-89	1.0E-87
ENSG00000134760	DSG1	desmoglein 1 [Source:HGNC Symbol;Acc:HGNC:3048]	398	-7.00	0.3496	-20.0	3.3E-89	1.1E-87
ENSG00000120149	MSX2	msh homeobox 2 [Source:HGNC Symbol;Acc:HGNC:7392]	912	-1.57	0.0785	-20.0	3.4E-89	1.1E-87
ENSG00000138162	TACC2	transforming acidic coiled-coil containing protein 2 [Source:HGNC Symbol;Acc:HGNC:11523]	1342	-1.20	0.0599	-20.0	3.7E-89	1.2E-87
ENSG00000164932	CTHRC1	collagen triple helix repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:18831]	253	-3.21	0.1604	-20.0	4.4E-89	1.4E-87
ENSG00000181634	TNFSF15	TNF superfamily member 15 [Source:HGNC Symbol;Acc:HGNC:11931]	377	-2.21	0.1108	-19.9	1.9E-88	6.1E-87
ENSG00000157227	MMP14	matrix metalloproteinase 14 [Source:HGNC Symbol;Acc:HGNC:7160]	1583	-1.07	0.0538	-19.9	2.0E-88	6.5E-87
ENSG00000185052	SLC24A3	solute carrier family 24 member 3 [Source:HGNC Symbol;Acc:HGNC:10977]	236	-3.27	0.1642	-19.9	4.9E-88	1.6E-86
ENSG00000135931	ARMC9	armadillo repeat containing 9 [Source:HGNC Symbol;Acc:HGNC:20730]	763	-1.43	0.0722	-19.9	7.4E-88	2.4E-86
ENSG00000104177	MYEF2	myelin expression factor 2 [Source:HGNC Symbol;Acc:HGNC:17940]	267	-2.76	0.1390	-19.8	1.9E-87	6.0E-86
ENSG00000181467	RAP2B	RAP2B, member of RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9862]	1610	-1.00	0.0505	-19.8	3.7E-87	1.2E-85
ENSG00000168679	SLC16A4	solute carrier family 16 member 4 [Source:HGNC Symbol;Acc:HGNC:10925]	786	-1.52	0.0769	-19.8	5.4E-87	1.7E-85
ENSG00000245848	CEBPA	CCAAT enhancer binding protein alpha [Source:HGNC Symbol;Acc:HGNC:1833]	231	-4.14	0.2096	-19.7	8.5E-87	2.7E-85
ENSG00000145386	CCNA2	cyclin A2 [Source:HGNC Symbol;Acc:HGNC:1578]	2949	-0.77	0.0392	-19.7	9.8E-87	3.1E-85
ENSG00000148218	ALAD	aminolevulinatase dehydratase [Source:HGNC Symbol;Acc:HGNC:395]	957	-1.34	0.0678	-19.7	1.9E-86	5.9E-85
ENSG00000166833	NAV2	neuron navigator 2 [Source:HGNC Symbol;Acc:HGNC:15997]	566	-1.68	0.0853	-19.7	2.1E-86	6.5E-85
ENSG00000144369	FAM171B	family with sequence similarity 171 member B [Source:HGNC Symbol;Acc:HGNC:29412]	648	-1.59	0.0807	-19.6	6.5E-86	2.0E-84
ENSG00000144036	EXOC6B	exocyst complex component 6B [Source:HGNC Symbol;Acc:HGNC:17085]	1726	-0.99	0.0506	-19.6	9.9E-86	3.1E-84
ENSG00000172575	RASGRP1	RAS guanyl releasing protein 1 [Source:HGNC Symbol;Acc:HGNC:9878]	229	-5.26	0.2679	-19.6	1.0E-85	3.2E-84
ENSG00000088812	ATRN	attractin [Source:HGNC Symbol;Acc:HGNC:885]	3215	-0.81	0.0415	-19.6	1.1E-85	3.3E-84
ENSG00000166206	GABRB3	gamma-aminobutyric acid type A receptor subunit beta3 [Source:HGNC Symbol;Acc:HGNC:4083]	439	-2.08	0.1061	-19.6	1.4E-85	4.5E-84
ENSG00000171310	CHST11	carbohydrate sulfotransferase 11 [Source:HGNC Symbol;Acc:HGNC:17422]	1738	-0.98	0.0499	-19.6	3.5E-85	1.1E-83
ENSG00000122779	TRIM24	tripartite motif containing 24 [Source:HGNC Symbol;Acc:HGNC:11812]	1181	-1.19	0.0610	-19.5	4.2E-85	1.3E-83
ENSG00000147180	ZNF711	zinc finger protein 711 [Source:HGNC Symbol;Acc:HGNC:13128]	249	-2.93	0.1500	-19.5	7.4E-85	2.3E-83
ENSG00000179046	TRIML2	tripartite motif family like 2 [Source:HGNC Symbol;Acc:HGNC:26378]	732	-1.49	0.0766	-19.5	1.5E-84	4.7E-83
ENSG00000150051	MXK	mohawk homeobox [Source:HGNC Symbol;Acc:HGNC:23729]	218	-4.17	0.2140	-19.5	2.1E-84	6.4E-83
ENSG00000183741	CBX6	chromobox 6 [Source:HGNC Symbol;Acc:HGNC:1556]	3119	-0.94	0.0484	-19.5	2.3E-84	7.0E-83
ENSG00000196352	CD55	CD55 molecule (Cromer blood group) [Source:HGNC Symbol;Acc:HGNC:2665]	3983	-0.70	0.0359	-19.4	4.3E-84	1.3E-82
ENSG00000186193	SAPCD2	suppressor APC domain containing 2 [Source:HGNC Symbol;Acc:HGNC:28055]	1221	-1.21	0.0623	-19.4	6.6E-84	2.0E-82
ENSG00000170873	MTSS1	MTSS I-BAR domain containing 1 [Source:HGNC Symbol;Acc:HGNC:20443]	739	-1.41	0.0728	-19.4	1.4E-83	4.2E-82
ENSG00000164104	HMGB2	high mobility group box 2 [Source:HGNC Symbol;Acc:HGNC:5000]	3995	-0.72	0.0374	-19.4	1.7E-83	5.0E-82
ENSG00000185305	ARL15	ADP ribosylation factor like GTPase 15 [Source:HGNC Symbol;Acc:HGNC:25945]	255	-2.92	0.1513	-19.3	3.5E-83	1.0E-81
ENSG00000214530	STARD10	StAR related lipid transfer domain containing 10 [Source:HGNC Symbol;Acc:HGNC:10666]	1734	-0.94	0.0485	-19.3	9.8E-83	2.9E-81
ENSG00000167880	EVPL	envoplakin [Source:HGNC Symbol;Acc:HGNC:3503]	4959	-0.74	0.0387	-19.3	1.4E-82	4.2E-81
ENSG00000154473	BUB3	BUB3 mitotic checkpoint protein [Source:HGNC Symbol;Acc:HGNC:1151]	5247	-0.61	0.0317	-19.2	3.9E-82	1.2E-80

ENSG00000122378	PRXL2A	peroxiredoxin like 2A [Source:HGNC Symbol;Acc:HGNC:28651]	927	-1.29	0.0672	-19.2	6.0E-82	1.8E-80
ENSG00000144476	ACKR3	atypical chemokine receptor 3 [Source:HGNC Symbol;Acc:HGNC:23692]	201	-3.86	0.2013	-19.2	6.3E-82	1.9E-80
ENSG00000187605	TET3	tet methylcytosine dioxygenase 3 [Source:HGNC Symbol;Acc:HGNC:28313]	1894	-1.03	0.0537	-19.2	9.3E-82	2.8E-80
ENSG00000257923	CUX1	cut like homeobox 1 [Source:HGNC Symbol;Acc:HGNC:2557]	2037	-0.89	0.0467	-19.1	2.2E-81	6.4E-80
ENSG00000175906	ARL4D	ADP ribosylation factor like GTPase 4D [Source:HGNC Symbol;Acc:HGNC:656]	1047	-1.18	0.0616	-19.1	3.8E-81	1.1E-79
ENSG00000076864	RAP1GAP	RAP1 GTPase activating protein [Source:HGNC Symbol;Acc:HGNC:9858]	1287	-1.08	0.0564	-19.1	3.8E-81	1.1E-79
ENSG00000184459	BPIFC	BPI fold containing family C [Source:HGNC Symbol;Acc:HGNC:16503]	204	-3.55	0.1861	-19.1	4.3E-81	1.2E-79
ENSG00000198840	MT-ND3	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 3 [Source:HGNC Symbol;Acc:H	17042	-0.58	0.0305	-19.0	7.6E-81	2.2E-79
ENSG00000186635	ARAP1	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 [Source:HGNC Symbol;Acc:HGNC:16925]	661	-1.51	0.0793	-19.0	8.1E-81	2.4E-79
ENSG00000116574	RHOA	ras homolog family member U [Source:HGNC Symbol;Acc:HGNC:17794]	236	-2.96	0.1558	-19.0	1.0E-80	2.9E-79
ENSG00000180914	OXTN	oxytocin receptor [Source:HGNC Symbol;Acc:HGNC:8529]	794	-1.33	0.0698	-19.0	1.4E-80	4.2E-79
ENSG00000100364	KIAA0930	KIAA0930 [Source:HGNC Symbol;Acc:HGNC:1314]	1283	-1.06	0.0558	-19.0	1.6E-80	4.6E-79
ENSG00000092621	PHGDH	phosphoglycerate dehydrogenase [Source:HGNC Symbol;Acc:HGNC:8923]	3907	-0.72	0.0380	-19.0	2.2E-80	6.4E-79
ENSG00000161921	CXCL16	C-X-C motif chemokine ligand 16 [Source:HGNC Symbol;Acc:HGNC:16642]	1419	-1.05	0.0552	-19.0	2.3E-80	6.6E-79
ENSG00000107951	MTPAP	mitochondrial poly(A) polymerase [Source:HGNC Symbol;Acc:HGNC:25532]	1453	-1.05	0.0553	-19.0	2.8E-80	8.0E-79
ENSG00000170571	EMB	embigin [Source:HGNC Symbol;Acc:HGNC:30465]	1006	-1.40	0.0740	-19.0	3.6E-80	1.0E-78
ENSG00000091490	SEL1L3	SEL1L family member 3 [Source:HGNC Symbol;Acc:HGNC:29108]	646	-1.49	0.0785	-18.9	8.6E-80	2.5E-78
ENSG00000014216	CAPN1	calpain 1 [Source:HGNC Symbol;Acc:HGNC:1476]	9727	-0.53	0.0280	-18.9	2.7E-79	7.6E-78
ENSG00000169469	SPRR1B	small proline rich protein 1B [Source:HGNC Symbol;Acc:HGNC:11260]	479	-1.84	0.0978	-18.8	5.1E-79	1.4E-77
ENSG00000078018	MAP2	microtubule associated protein 2 [Source:HGNC Symbol;Acc:HGNC:6839]	545	-1.67	0.0887	-18.8	5.4E-79	1.5E-77
ENSG00000164211	STARD4	StAR related lipid transfer domain containing 4 [Source:HGNC Symbol;Acc:HGNC:18058]	582	-1.66	0.0886	-18.8	1.0E-78	2.8E-77
ENSG00000123159	GIPC1	GIPC PDZ domain containing family member 1 [Source:HGNC Symbol;Acc:HGNC:1226]	8648	-0.53	0.0282	-18.8	1.1E-78	3.0E-77
ENSG00000186297	GABRA5	gamma-aminobutyric acid type A receptor subunit alpha5 [Source:HGNC Symbol;Acc:HGNC:4079]	190	-3.70	0.1972	-18.8	1.4E-78	3.8E-77
ENSG00000142949	PTPRF	protein tyrosine phosphatase receptor type F [Source:HGNC Symbol;Acc:HGNC:9670]	13942	-0.58	0.0310	-18.7	3.0E-78	8.3E-77
ENSG00000100368	CSF2RB	colony stimulating factor 2 receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:2436]	211	-5.31	0.2842	-18.7	5.1E-78	1.4E-76
ENSG00000150593	PDCD4	programmed cell death 4 [Source:HGNC Symbol;Acc:HGNC:8763]	1647	-1.11	0.0592	-18.7	6.6E-78	1.8E-76
ENSG00000103067	ESRP2	epithelial splicing regulatory protein 2 [Source:HGNC Symbol;Acc:HGNC:26152]	2642	-0.79	0.0421	-18.7	6.6E-78	1.8E-76
ENSG00000170500	LONRF2	LON peptidase N-terminal domain and ring finger 2 [Source:HGNC Symbol;Acc:HGNC:24788]	272	-2.52	0.1348	-18.7	7.0E-78	1.9E-76
ENSG00000008256	CYTH3	cytohesin 3 [Source:HGNC Symbol;Acc:HGNC:9504]	3788	-0.69	0.0367	-18.7	1.2E-77	3.4E-76
ENSG00000137285	TUBB2B	tubulin beta 2B class IIb [Source:HGNC Symbol;Acc:HGNC:30829]	301	-2.56	0.1379	-18.5	9.9E-77	2.7E-75
ENSG00000120963	ZNF706	zinc finger protein 706 [Source:HGNC Symbol;Acc:HGNC:24992]	3647	-0.68	0.0367	-18.5	1.8E-76	4.8E-75
ENSG00000110002	VWA5A	von Willebrand factor A domain containing 5A [Source:HGNC Symbol;Acc:HGNC:6658]	323	-2.44	0.1323	-18.5	3.5E-76	9.3E-75
ENSG00000130706	ADRM1	adhesion regulating molecule 1 [Source:HGNC Symbol;Acc:HGNC:15759]	3662	-0.70	0.0379	-18.4	1.1E-75	3.0E-74
ENSG00000160216	AGPAT3	1-acylglycerol-3-phosphate O-acyltransferase 3 [Source:HGNC Symbol;Acc:HGNC:326]	1014	-1.19	0.0645	-18.4	1.1E-75	3.0E-74
ENSG00000128274	A4GALT	alpha 1,4-galactosyltransferase (P blood group) [Source:HGNC Symbol;Acc:HGNC:18149]	346	-2.06	0.1122	-18.4	1.4E-75	3.7E-74
ENSG00000176532	PRR15	proline rich 15 [Source:HGNC Symbol;Acc:HGNC:22310]	324	-2.24	0.1220	-18.4	2.1E-75	5.7E-74
ENSG00000135925	WNT10A	Wnt family member 10A [Source:HGNC Symbol;Acc:HGNC:13829]	184	-4.25	0.2316	-18.4	2.5E-75	6.8E-74
ENSG00000125534	PPDPF	pancreatic progenitor cell differentiation and proliferation factor [Source:HGNC Symbol;Acc:HGNC:1614	8847	-0.52	0.0281	-18.4	2.8E-75	7.3E-74
ENSG00000100376	FAM118A	family with sequence similarity 118 member A [Source:HGNC Symbol;Acc:HGNC:1313]	493	-1.76	0.0961	-18.4	2.9E-75	7.7E-74
ENSG00000188042	ARL4C	ADP ribosylation factor like GTPase 4C [Source:HGNC Symbol;Acc:HGNC:698]	2395	-0.81	0.0444	-18.3	5.2E-75	1.4E-73
ENSG00000159348	CYB5R1	cytochrome b5 reductase 1 [Source:HGNC Symbol;Acc:HGNC:13397]	983	-1.17	0.0637	-18.3	7.2E-75	1.9E-73
ENSG00000160094	ZNF362	zinc finger protein 362 [Source:HGNC Symbol;Acc:HGNC:18079]	960	-1.16	0.0635	-18.3	8.5E-75	2.2E-73

ENSG00000104413	ESRP1	epithelial splicing regulatory protein 1 [Source:HGNC Symbol;Acc:HGNC:25966]	3623	-0.67	0.0365	-18.3	1.5E-74	4.0E-73
ENSG00000196821	ILRUN	inflammation and lipid regulator with UBA-like and NBR1-like domains [Source:HGNC Symbol;Acc:HGNC:23571]	3185	-0.73	0.0400	-18.2	2.7E-74	7.2E-73
ENSG00000235217	TSPY26P	testis specific protein Y-linked 26, pseudogene [Source:HGNC Symbol;Acc:HGNC:16256]	347	-2.05	0.1126	-18.2	3.9E-74	1.0E-72
ENSG00000145604	SKP2	S-phase kinase associated protein 2 [Source:HGNC Symbol;Acc:HGNC:10901]	2118	-0.86	0.0474	-18.2	4.3E-74	1.1E-72
ENSG00000166145	SPINT1	serine peptidase inhibitor, Kunitz type 1 [Source:HGNC Symbol;Acc:HGNC:11246]	9152	-0.52	0.0284	-18.2	5.3E-74	1.4E-72
ENSG00000112294	ALDH5A1	aldehyde dehydrogenase 5 family member A1 [Source:HGNC Symbol;Acc:HGNC:408]	558	-1.60	0.0882	-18.2	6.3E-74	1.6E-72
ENSG00000088538	DOCK3	dedicator of cytokinesis 3 [Source:HGNC Symbol;Acc:HGNC:2989]	638	-1.54	0.0846	-18.2	7.7E-74	2.0E-72
ENSG00000275832	ARHGAP23	Rho GTPase activating protein 23 [Source:HGNC Symbol;Acc:HGNC:29293]	4163	-0.67	0.0370	-18.2	1.1E-73	2.9E-72
ENSG00000082438	COBLL1	cordon-bleu WH2 repeat protein like 1 [Source:HGNC Symbol;Acc:HGNC:23571]	1027	-1.14	0.0629	-18.1	2.5E-73	6.4E-72
ENSG00000035499	DEPDC1B	DEP domain containing 1B [Source:HGNC Symbol;Acc:HGNC:24902]	1085	-1.10	0.0609	-18.0	8.0E-73	2.1E-71
ENSG00000103657	HERC1	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1 [Source:HGNC Symbol;Acc:HGNC:11615]	2120	-0.84	0.0464	-18.0	1.7E-72	4.5E-71
ENSG00000204219	TCEA3	transcription elongation factor A3 [Source:HGNC Symbol;Acc:HGNC:11615]	194	-3.14	0.1745	-18.0	2.1E-72	5.4E-71
ENSG00000148341	SH3GLB2	SH3 domain containing GRB2 like, endophilin B2 [Source:HGNC Symbol;Acc:HGNC:10834]	2353	-0.79	0.0440	-18.0	3.8E-72	9.7E-71
ENSG00000119787	ATL2	atlastin GTPase 2 [Source:HGNC Symbol;Acc:HGNC:24047]	1532	-0.92	0.0515	-18.0	4.6E-72	1.2E-70
ENSG00000005187	ACSM3	acyl-CoA synthetase medium chain family member 3 [Source:HGNC Symbol;Acc:HGNC:10522]	178	-3.51	0.1958	-17.9	7.2E-72	1.8E-70
ENSG00000137648	TMPRSS4	transmembrane serine protease 4 [Source:HGNC Symbol;Acc:HGNC:11878]	170	-4.14	0.2314	-17.9	9.5E-72	2.4E-70
ENSG00000265107	GJA5	gap junction protein alpha 5 [Source:HGNC Symbol;Acc:HGNC:4279]	244	-2.50	0.1397	-17.9	1.1E-71	2.8E-70
ENSG00000182795	C1orf116	chromosome 1 open reading frame 116 [Source:HGNC Symbol;Acc:HGNC:28667]	1025	-1.19	0.0662	-17.9	1.2E-71	2.9E-70
ENSG00000223572	CKMT1A	creatine kinase, mitochondrial 1A [Source:HGNC Symbol;Acc:HGNC:31736]	181	-3.41	0.1917	-17.8	6.5E-71	1.6E-69
ENSG00000115616	SLC9A2	solute carrier family 9 member A2 [Source:HGNC Symbol;Acc:HGNC:11072]	553	-1.54	0.0866	-17.8	9.1E-71	2.3E-69
ENSG00000154274	C4orf19	chromosome 4 open reading frame 19 [Source:HGNC Symbol;Acc:HGNC:25618]	171	-3.75	0.2112	-17.8	1.1E-70	2.8E-69
ENSG00000136156	ITM2B	integral membrane protein 2B [Source:HGNC Symbol;Acc:HGNC:6174]	3416	-0.68	0.0381	-17.8	1.3E-70	3.3E-69
ENSG00000085831	TTC39A	tetratricopeptide repeat domain 39A [Source:HGNC Symbol;Acc:HGNC:18657]	392	-1.88	0.1062	-17.7	6.0E-70	1.5E-68
ENSG00000060982	BCAT1	branched chain amino acid transaminase 1 [Source:HGNC Symbol;Acc:HGNC:976]	736	-1.34	0.0758	-17.7	9.4E-70	2.3E-68
ENSG00000071073	MGAT4A	alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A [Source:HGNC Symbol;Acc:HGNC:2680]	685	-1.33	0.0754	-17.6	1.9E-69	4.8E-68
ENSG00000101191	DIDO1	death inducer-obliterator 1 [Source:HGNC Symbol;Acc:HGNC:2680]	4883	-0.62	0.0355	-17.6	2.5E-69	6.2E-68
ENSG00000080189	SLC35C2	solute carrier family 35 member C2 [Source:HGNC Symbol;Acc:HGNC:17117]	3711	-0.66	0.0377	-17.6	2.6E-69	6.2E-68
ENSG00000123983	ACSL3	acyl-CoA synthetase long chain family member 3 [Source:HGNC Symbol;Acc:HGNC:3570]	5144	-0.58	0.0331	-17.6	5.9E-69	1.4E-67
ENSG00000138606	SHF	Src homology 2 domain containing F [Source:HGNC Symbol;Acc:HGNC:25116]	199	-3.02	0.1722	-17.5	6.2E-69	1.5E-67
ENSG00000274602	PI4KAP1	phosphatidylinositol 4-kinase alpha pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:33576]	582	-1.50	0.0857	-17.5	7.3E-69	1.8E-67
ENSG00000121552	CSTA	cystatin A [Source:HGNC Symbol;Acc:HGNC:2481]	514	-1.95	0.1110	-17.5	7.8E-69	1.9E-67
ENSG00000138764	CCNG2	cyclin G2 [Source:HGNC Symbol;Acc:HGNC:1593]	794	-1.33	0.0762	-17.5	2.4E-68	5.7E-67
ENSG00000173212	MAB21L3	mab-21 like 3 [Source:HGNC Symbol;Acc:HGNC:26787]	176	-5.06	0.2899	-17.4	3.8E-68	9.1E-67
ENSG00000101181	MTG2	mitochondrial ribosome associated GTPase 2 [Source:HGNC Symbol;Acc:HGNC:16239]	3857	-0.63	0.0364	-17.4	4.6E-68	1.1E-66
ENSG00000131067	GGT7	gamma-glutamyltransferase 7 [Source:HGNC Symbol;Acc:HGNC:4259]	1264	-0.98	0.0563	-17.4	8.1E-68	1.9E-66
ENSG00000165685	TMEM52B	transmembrane protein 52B [Source:HGNC Symbol;Acc:HGNC:26438]	177	-5.11	0.2940	-17.4	9.4E-68	2.2E-66
ENSG00000196187	TMEM63A	transmembrane protein 63A [Source:HGNC Symbol;Acc:HGNC:29118]	1155	-1.03	0.0590	-17.4	1.0E-67	2.5E-66
ENSG00000138835	RGS3	regulator of G protein signaling 3 [Source:HGNC Symbol;Acc:HGNC:9999]	786	-1.27	0.0729	-17.4	1.6E-67	3.8E-66
ENSG00000148180	GSN	gelsolin [Source:HGNC Symbol;Acc:HGNC:4620]	4811	-0.62	0.0356	-17.3	3.2E-67	7.5E-66
ENSG00000164070	HSPA4L	heat shock protein family A (Hsp70) member 4 like [Source:HGNC Symbol;Acc:HGNC:17041]	433	-1.72	0.0993	-17.3	5.3E-67	1.3E-65
ENSG00000136603	SKIL	SKI like proto-oncogene [Source:HGNC Symbol;Acc:HGNC:10897]	1830	-0.89	0.0518	-17.3	1.1E-66	2.6E-65
ENSG00000186567	CEACAM19	CEA cell adhesion molecule 19 [Source:HGNC Symbol;Acc:HGNC:31951]	442	-1.70	0.0986	-17.2	1.2E-66	2.8E-65

ENSG00000176928	GCNT4	glucosaminyl (N-acetyl) transferase 4 [Source:HGNC Symbol;Acc:HGNC:17973]	267	-2.26	0.1312	-17.2	2.1E-66	5.0E-65
ENSG00000143401	ANP32E	acidic nuclear phosphoprotein 32 family member E [Source:HGNC Symbol;Acc:HGNC:16673]	4734	-0.59	0.0345	-17.2	2.2E-66	5.1E-65
ENSG00000120899	PTK2B	protein tyrosine kinase 2 beta [Source:HGNC Symbol;Acc:HGNC:9612]	1372	-0.97	0.0567	-17.2	4.0E-66	9.4E-65
ENSG00000152284	TCF7L1	transcription factor 7 like 1 [Source:HGNC Symbol;Acc:HGNC:11640]	1510	-1.01	0.0587	-17.2	5.5E-66	1.3E-64
ENSG00000112379	ARFGEF3	ARFGEF family member 3 [Source:HGNC Symbol;Acc:HGNC:21213]	169	-3.46	0.2020	-17.2	6.0E-66	1.4E-64
ENSG00000184261	KCNK12	potassium two pore domain channel subfamily K member 12 [Source:HGNC Symbol;Acc:HGNC:6274]	179	-3.67	0.2140	-17.1	7.7E-66	1.8E-64
ENSG00000145362	ANK2	ankyrin 2 [Source:HGNC Symbol;Acc:HGNC:493]	158	-4.31	0.2515	-17.1	8.3E-66	1.9E-64
ENSG00000126432	PRDX5	peroxiredoxin 5 [Source:HGNC Symbol;Acc:HGNC:9355]	10259	-0.52	0.0306	-17.1	1.4E-65	3.2E-64
ENSG00000237441	RGL2	ral guanine nucleotide dissociation stimulator like 2 [Source:HGNC Symbol;Acc:HGNC:9769]	1269	-1.01	0.0590	-17.1	1.5E-65	3.4E-64
ENSG00000166135	HIF1AN	hypoxia inducible factor 1 subunit alpha inhibitor [Source:HGNC Symbol;Acc:HGNC:17113]	3015	-0.68	0.0401	-17.1	2.6E-65	6.0E-64
ENSG00000136235	GNPMB	glycoprotein nmb [Source:HGNC Symbol;Acc:HGNC:4462]	722	-1.30	0.0760	-17.1	3.2E-65	7.5E-64
ENSG00000173156	RHOD	ras homolog family member D [Source:HGNC Symbol;Acc:HGNC:670]	6118	-0.55	0.0323	-17.0	3.8E-65	8.7E-64
ENSG00000177169	ULK1	unc-51 like autophagy activating kinase 1 [Source:HGNC Symbol;Acc:HGNC:12558]	1507	-0.94	0.0554	-17.0	5.5E-65	1.3E-63
ENSG00000155066	PROM2	prominin 2 [Source:HGNC Symbol;Acc:HGNC:20685]	1496	-0.91	0.0535	-17.0	1.1E-64	2.5E-63
ENSG0000010292	NCAPD2	non-SMC condensin I complex subunit D2 [Source:HGNC Symbol;Acc:HGNC:24305]	5448	-0.54	0.0316	-17.0	1.2E-64	2.7E-63
ENSG00000139112	GABARAPL1	GABA type A receptor associated protein like 1 [Source:HGNC Symbol;Acc:HGNC:4068]	1445	-0.89	0.0526	-16.9	3.2E-64	7.2E-63
ENSG00000186480	INSIG1	insulin induced gene 1 [Source:HGNC Symbol;Acc:HGNC:6083]	877	-1.19	0.0704	-16.9	3.6E-64	8.0E-63
ENSG00000172893	DHCR7	7-dehydrocholesterol reductase [Source:HGNC Symbol;Acc:HGNC:2860]	2513	-0.75	0.0444	-16.9	5.9E-64	1.3E-62
ENSG00000151883	PARP8	poly(ADP-ribose) polymerase family member 8 [Source:HGNC Symbol;Acc:HGNC:26124]	163	-5.10	0.3030	-16.8	1.7E-63	3.8E-62
ENSG00000160111	CPAMD8	C3 and PZP like alpha-2-macroglobulin domain containing 8 [Source:HGNC Symbol;Acc:HGNC:23228]	717	-1.24	0.0736	-16.8	1.8E-63	4.0E-62
ENSG00000136167	LCP1	lymphocyte cytosolic protein 1 [Source:HGNC Symbol;Acc:HGNC:6528]	329	-1.94	0.1151	-16.8	1.8E-63	4.1E-62
ENSG00000166387	PPFIBP2	PPFIA binding protein 2 [Source:HGNC Symbol;Acc:HGNC:9250]	155	-4.29	0.2555	-16.8	2.4E-63	5.4E-62
ENSG00000157625	TAB3	TGF-beta activated kinase 1 (MAP3K7) binding protein 3 [Source:HGNC Symbol;Acc:HGNC:30681]	1797	-0.83	0.0497	-16.7	6.1E-63	1.4E-61
ENSG00000204128	C2orf72	chromosome 2 open reading frame 72 [Source:HGNC Symbol;Acc:HGNC:27418]	389	-1.70	0.1016	-16.7	7.5E-63	1.7E-61
ENSG00000149115	TNKS1BP1	tankyrase 1 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:19081]	5204	-0.60	0.0362	-16.7	1.1E-62	2.4E-61
ENSG00000240849	PEDS1	plasmalyethanolamine desaturase 1 [Source:HGNC Symbol;Acc:HGNC:16735]	1283	-0.96	0.0577	-16.7	2.6E-62	5.8E-61
ENSG00000140968	IRF8	interferon regulatory factor 8 [Source:HGNC Symbol;Acc:HGNC:5358]	150	-3.95	0.2370	-16.7	3.0E-62	6.5E-61
ENSG00000136928	GABBR2	gamma-aminobutyric acid type B receptor subunit 2 [Source:HGNC Symbol;Acc:HGNC:4507]	260	-2.21	0.1327	-16.6	3.2E-62	7.0E-61
ENSG00000204305	AGER	advanced glycosylation end-product specific receptor [Source:HGNC Symbol;Acc:HGNC:320]	325	-1.94	0.1165	-16.6	3.9E-62	8.6E-61
ENSG00000165300	SLITRK5	SLIT and NTRK like family member 5 [Source:HGNC Symbol;Acc:HGNC:20295]	150	-3.96	0.2382	-16.6	6.3E-62	1.4E-60
ENSG00000077097	TOP2B	DNA topoisomerase II beta [Source:HGNC Symbol;Acc:HGNC:11990]	3109	-0.65	0.0392	-16.6	1.4E-61	3.1E-60
ENSG00000277443	MARCKS	myristoylated alanine rich protein kinase C substrate [Source:HGNC Symbol;Acc:HGNC:6759]	1796	-0.85	0.0515	-16.6	1.4E-61	3.1E-60
ENSG00000183018	SPNS2	sphingolipid transporter 2 [Source:HGNC Symbol;Acc:HGNC:26992]	1446	-0.86	0.0523	-16.5	3.1E-61	6.8E-60
ENSG00000278730	ENSG00000278730	novel transcript	264	-2.13	0.1289	-16.5	4.2E-61	9.1E-60
ENSG00000175183	CSRP2	cysteine and glycine rich protein 2 [Source:HGNC Symbol;Acc:HGNC:2470]	403	-1.74	0.1056	-16.5	5.4E-61	1.2E-59
ENSG00000130701	RBBP8NL	RBBP8 N-terminal like [Source:HGNC Symbol;Acc:HGNC:16144]	284	-2.04	0.1239	-16.4	8.4E-61	1.8E-59
ENSG00000116017	ARID3A	AT-rich interaction domain 3A [Source:HGNC Symbol;Acc:HGNC:3031]	1023	-1.08	0.0660	-16.4	1.2E-60	2.5E-59
ENSG00000100106	TRIOBP	TRIO and F-actin binding protein [Source:HGNC Symbol;Acc:HGNC:17009]	2537	-0.68	0.0412	-16.4	1.7E-60	3.7E-59
ENSG00000090339	ICAM1	intercellular adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:5344]	298	-1.97	0.1202	-16.4	1.9E-60	4.2E-59
ENSG00000175063	UBE2C	ubiquitin conjugating enzyme E2 C [Source:HGNC Symbol;Acc:HGNC:15937]	3987	-0.74	0.0451	-16.4	2.0E-60	4.3E-59
ENSG00000107679	PLEKHA1	pleckstrin homology domain containing A1 [Source:HGNC Symbol;Acc:HGNC:14335]	1288	-0.91	0.0557	-16.4	2.4E-60	5.0E-59
ENSG00000119541	VPS4B	vacuolar protein sorting 4 homolog B [Source:HGNC Symbol;Acc:HGNC:10895]	1952	-0.80	0.0492	-16.4	3.3E-60	7.1E-59

ENSG00000085552	IGSF9	immunoglobulin superfamily member 9 [Source:HGNC Symbol;Acc:HGNC:18132]	1024	-1.09	0.0665	-16.3	6.5E-60	1.4E-58
ENSG00000132164	SLC6A11	solute carrier family 6 member 11 [Source:HGNC Symbol;Acc:HGNC:11044]	668	-1.31	0.0804	-16.3	8.2E-60	1.7E-58
ENSG00000137843	PAK6	p21 (RAC1) activated kinase 6 [Source:HGNC Symbol;Acc:HGNC:16061]	415	-1.60	0.0984	-16.3	1.3E-59	2.7E-58
ENSG00000196227	FAM217B	family with sequence similarity 217 member B [Source:HGNC Symbol;Acc:HGNC:16170]	1450	-0.91	0.0560	-16.2	2.4E-59	5.2E-58
ENSG00000196975	ANXA4	annexin A4 [Source:HGNC Symbol;Acc:HGNC:542]	3231	-0.62	0.0385	-16.2	3.8E-59	8.0E-58
ENSG00000166670	MMP10	matrix metalloproteinase 10 [Source:HGNC Symbol;Acc:HGNC:7156]	139	-4.47	0.2760	-16.2	6.4E-59	1.3E-57
ENSG0000010278	CD9	CD9 molecule [Source:HGNC Symbol;Acc:HGNC:1709]	9003	-0.51	0.0317	-16.2	7.2E-59	1.5E-57
ENSG00000166888	STAT6	signal transducer and activator of transcription 6 [Source:HGNC Symbol;Acc:HGNC:11368]	1529	-0.84	0.0518	-16.2	7.4E-59	1.6E-57
ENSG00000114948	ADAM23	ADAM metalloproteinase domain 23 [Source:HGNC Symbol;Acc:HGNC:202]	141	-3.91	0.2416	-16.2	8.1E-59	1.7E-57
ENSG00000198911	SREBF2	sterol regulatory element binding transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:11290]	3629	-0.58	0.0362	-16.1	2.4E-58	5.0E-57
ENSG00000086544	ITPKC	inositol-trisphosphate 3-kinase C [Source:HGNC Symbol;Acc:HGNC:14897]	867	-1.20	0.0748	-16.1	2.7E-58	5.6E-57
ENSG00000124155	PIGT	phosphatidylinositol glycan anchor biosynthesis class T [Source:HGNC Symbol;Acc:HGNC:14938]	6222	-0.56	0.0346	-16.1	3.2E-58	6.6E-57
ENSG00000148773	MKI67	marker of proliferation Ki-67 [Source:HGNC Symbol;Acc:HGNC:7107]	10843	-0.61	0.0380	-16.1	3.8E-58	7.9E-57
ENSG00000078114	NEBL	nebulette [Source:HGNC Symbol;Acc:HGNC:16932]	581	-1.40	0.0868	-16.1	4.1E-58	8.5E-57
ENSG00000169126	ODAD2	outer dynein arm docking complex subunit 2 [Source:HGNC Symbol;Acc:HGNC:25583]	179	-2.74	0.1705	-16.1	5.5E-58	1.1E-56
ENSG00000104332	SFRP1	secreted frizzled related protein 1 [Source:HGNC Symbol;Acc:HGNC:10776]	155	-3.11	0.1938	-16.0	5.7E-58	1.2E-56
ENSG00000198833	UBE2J1	ubiquitin conjugating enzyme E2 J1 [Source:HGNC Symbol;Acc:HGNC:17598]	2309	-0.72	0.0448	-16.0	7.6E-58	1.6E-56
ENSG00000124143	ARHGAP40	Rho GTPase activating protein 40 [Source:HGNC Symbol;Acc:HGNC:16226]	877	-1.09	0.0679	-16.0	1.7E-57	3.6E-56
ENSG00000197324	LRP10	LDL receptor related protein 10 [Source:HGNC Symbol;Acc:HGNC:14553]	2652	-0.80	0.0502	-16.0	1.7E-57	3.6E-56
ENSG00000136720	HS6ST1	heparan sulfate 6-O-sulfotransferase 1 [Source:HGNC Symbol;Acc:HGNC:5201]	1074	-1.04	0.0656	-15.9	5.3E-57	1.1E-55
ENSG00000101871	MID1	midline 1 [Source:HGNC Symbol;Acc:HGNC:7095]	2165	-0.75	0.0471	-15.9	6.6E-57	1.3E-55
ENSG00000167741	GBT6	gamma-glutamyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:26891]	202	-6.37	0.4010	-15.9	6.7E-57	1.4E-55
ENSG00000075407	ZNF37A	zinc finger protein 37A [Source:HGNC Symbol;Acc:HGNC:13102]	461	-1.49	0.0940	-15.9	6.9E-57	1.4E-55
ENSG00000167861	HID1	HID1 domain containing [Source:HGNC Symbol;Acc:HGNC:15736]	163	-3.01	0.1894	-15.9	9.2E-57	1.9E-55
ENSG00000134824	FADS2	fatty acid desaturase 2 [Source:HGNC Symbol;Acc:HGNC:3575]	1558	-0.85	0.0533	-15.9	1.3E-56	2.7E-55
ENSG00000169116	PARM1	prostate androgen-regulated mucin-like protein 1 [Source:HGNC Symbol;Acc:HGNC:24536]	132	-4.27	0.2698	-15.8	1.6E-56	3.2E-55
ENSG00000101460	MAP1LC3A	microtubule associated protein 1 light chain 3 alpha [Source:HGNC Symbol;Acc:HGNC:6838]	1565	-0.96	0.0608	-15.8	2.7E-56	5.4E-55
ENSG00000073350	LLGL2	LLGL scribble cell polarity complex component 2 [Source:HGNC Symbol;Acc:HGNC:6629]	2696	-0.67	0.0427	-15.8	2.9E-56	5.7E-55
ENSG00000177106	EPS8L2	EPS8 like 2 [Source:HGNC Symbol;Acc:HGNC:21296]	3987	-0.60	0.0380	-15.8	3.2E-56	6.4E-55
ENSG00000108821	COL1A1	collagen type I alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2197]	331	-1.92	0.1215	-15.8	3.7E-56	7.3E-55
ENSG00000211445	GPX3	glutathione peroxidase 3 [Source:HGNC Symbol;Acc:HGNC:4555]	229	-2.20	0.1394	-15.8	3.9E-56	7.7E-55
ENSG00000162444	RBP7	retinol binding protein 7 [Source:HGNC Symbol;Acc:HGNC:30316]	531	-1.40	0.0891	-15.8	4.7E-56	9.4E-55
ENSG00000112655	PTK7	protein tyrosine kinase 7 (inactive) [Source:HGNC Symbol;Acc:HGNC:9618]	3405	-0.63	0.0399	-15.8	4.8E-56	9.5E-55
ENSG00000168477	TNXB	tenascin XB [Source:HGNC Symbol;Acc:HGNC:11976]	168	-2.79	0.1770	-15.8	5.0E-56	9.8E-55
ENSG00000138074	SLC5A6	solute carrier family 5 member 6 [Source:HGNC Symbol;Acc:HGNC:11041]	2033	-0.73	0.0465	-15.8	5.0E-56	9.9E-55
ENSG00000049860	HEXB	hexosaminidase subunit beta [Source:HGNC Symbol;Acc:HGNC:4879]	3083	-0.78	0.0497	-15.6	3.6E-55	7.1E-54
ENSG00000111912	NCOA7	nuclear receptor coactivator 7 [Source:HGNC Symbol;Acc:HGNC:21081]	1148	-0.93	0.0596	-15.6	3.8E-55	7.4E-54
ENSG00000135916	ITM2C	integral membrane protein 2C [Source:HGNC Symbol;Acc:HGNC:6175]	3672	-0.59	0.0375	-15.6	4.2E-55	8.2E-54
ENSG00000179178	TMEM125	transmembrane protein 125 [Source:HGNC Symbol;Acc:HGNC:28275]	135	-3.47	0.2220	-15.6	4.3E-55	8.4E-54
ENSG00000065613	SLK	STE20 like kinase [Source:HGNC Symbol;Acc:HGNC:11088]	3180	-0.59	0.0378	-15.6	4.6E-55	9.0E-54
ENSG00000076604	TRAF4	TNF receptor associated factor 4 [Source:HGNC Symbol;Acc:HGNC:12034]	3322	-0.60	0.0385	-15.6	6.2E-55	1.2E-53
ENSG00000168671	UGT3A2	UDP glycosyltransferase family 3 member A2 [Source:HGNC Symbol;Acc:HGNC:27266]	530	-1.31	0.0839	-15.6	6.9E-55	1.4E-53

ENSG00000008323	PLEKHG6	pleckstrin homology and RhoGEF domain containing G6 [Source:HGNC Symbol;Acc:HGNC:25562]	905	-1.04	0.0666	-15.6	8.1E-55	1.6E-53
ENSG00000106537	TSPAN13	tetraspanin 13 [Source:HGNC Symbol;Acc:HGNC:21643]	4422	-0.54	0.0349	-15.6	1.1E-54	2.1E-53
ENSG00000189266	PNRC2	proline rich nuclear receptor coactivator 2 [Source:HGNC Symbol;Acc:HGNC:23158]	2263	-0.68	0.0436	-15.5	2.2E-54	4.2E-53
ENSG00000182010	RTKN2	rhotekin 2 [Source:HGNC Symbol;Acc:HGNC:19364]	441	-1.52	0.0977	-15.5	2.5E-54	4.9E-53
ENSG00000139173	TMEM117	transmembrane protein 117 [Source:HGNC Symbol;Acc:HGNC:25308]	233	-2.09	0.1350	-15.5	2.6E-54	5.1E-53
ENSG00000026559	KCNQ1	potassium voltage-gated channel modifier subfamily G member 1 [Source:HGNC Symbol;Acc:HGNC:624]	949	-2.10	0.1356	-15.5	3.6E-54	6.9E-53
ENSG00000070159	PTPN3	protein tyrosine phosphatase non-receptor type 3 [Source:HGNC Symbol;Acc:HGNC:9655]	1569	-0.80	0.0514	-15.5	4.8E-54	9.2E-53
ENSG00000151726	ACSL1	acyl-CoA synthetase long chain family member 1 [Source:HGNC Symbol;Acc:HGNC:3569]	2280	-0.67	0.0430	-15.5	5.2E-54	9.9E-53
ENSG00000143013	LMO4	LIM domain only 4 [Source:HGNC Symbol;Acc:HGNC:6644]	2244	-0.67	0.0433	-15.5	6.1E-54	1.2E-52
ENSG00000116157	GPX7	glutathione peroxidase 7 [Source:HGNC Symbol;Acc:HGNC:4559]	533	-1.38	0.0891	-15.5	7.1E-54	1.3E-52
ENSG00000163472	TMEM79	transmembrane protein 79 [Source:HGNC Symbol;Acc:HGNC:28196]	579	-1.29	0.0836	-15.4	7.8E-54	1.5E-52
ENSG00000158769	F11R	F11 receptor [Source:HGNC Symbol;Acc:HGNC:14685]	2800	-0.69	0.0448	-15.4	9.8E-54	1.9E-52
ENSG00000142945	KIF2C	kinesin family member 2C [Source:HGNC Symbol;Acc:HGNC:6393]	2767	-0.66	0.0427	-15.4	2.3E-53	4.4E-52
ENSG00000109189	USP46	ubiquitin specific peptidase 46 [Source:HGNC Symbol;Acc:HGNC:20075]	1052	-0.95	0.0621	-15.3	3.9E-53	7.3E-52
ENSG00000162817	C1orf115	chromosome 1 open reading frame 115 [Source:HGNC Symbol;Acc:HGNC:25873]	430	-1.43	0.0935	-15.3	4.5E-53	8.6E-52
ENSG00000072133	RPS6KA6	ribosomal protein S6 kinase A6 [Source:HGNC Symbol;Acc:HGNC:10435]	191	-2.39	0.1557	-15.3	5.0E-53	9.5E-52
ENSG00000141738	GRB7	growth factor receptor bound protein 7 [Source:HGNC Symbol;Acc:HGNC:4567]	527	-1.36	0.0892	-15.3	1.3E-52	2.5E-51
ENSG00000027075	PRKCH	protein kinase C eta [Source:HGNC Symbol;Acc:HGNC:9403]	581	-1.23	0.0804	-15.3	1.4E-52	2.5E-51
ENSG00000142765	SYTL1	synaptotagmin like 1 [Source:HGNC Symbol;Acc:HGNC:15584]	626	-1.19	0.0778	-15.3	1.4E-52	2.6E-51
ENSG00000134440	NARS1	asparaginyl-tRNA synthetase 1 [Source:HGNC Symbol;Acc:HGNC:7643]	5207	-0.54	0.0352	-15.3	1.5E-52	2.9E-51
ENSG00000006576	PTHF2	putative homeodomain transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:13411]	1942	-0.80	0.0525	-15.2	3.7E-52	7.0E-51
ENSG00000112561	TFEB	transcription factor EB [Source:HGNC Symbol;Acc:HGNC:11753]	674	-1.17	0.0774	-15.1	8.5E-52	1.6E-50
ENSG00000082212	ME2	malic enzyme 2 [Source:HGNC Symbol;Acc:HGNC:6984]	1045	-0.99	0.0651	-15.1	8.8E-52	1.6E-50
ENSG00000146072	TNFRSF21	TNF receptor superfamily member 21 [Source:HGNC Symbol;Acc:HGNC:13469]	3765	-0.59	0.0387	-15.1	9.4E-52	1.7E-50
ENSG00000107099	DOCK8	dedicator of cytokinesis 8 [Source:HGNC Symbol;Acc:HGNC:19191]	163	-2.72	0.1802	-15.1	1.1E-51	2.1E-50
ENSG00000100439	ABHD4	abhydrolase domain containing 4, N-acyl phospholipase B [Source:HGNC Symbol;Acc:HGNC:20154]	912	-0.99	0.0658	-15.1	1.3E-51	2.4E-50
ENSG00000174951	FUT1	fucosyltransferase 1 (H blood group) [Source:HGNC Symbol;Acc:HGNC:4012]	411	-1.51	0.1001	-15.1	1.3E-51	2.5E-50
ENSG00000054598	FOXC1	forkhead box C1 [Source:HGNC Symbol;Acc:HGNC:3800]	394	-1.61	0.1068	-15.1	2.3E-51	4.3E-50
ENSG00000151376	ME3	malic enzyme 3 [Source:HGNC Symbol;Acc:HGNC:6985]	530	-1.34	0.0887	-15.1	2.4E-51	4.4E-50
ENSG00000170542	SERPINB9	serpin family B member 9 [Source:HGNC Symbol;Acc:HGNC:8955]	199	-2.27	0.1508	-15.0	3.7E-51	6.8E-50
ENSG00000107104	KANK1	KN motif and ankyrin repeat domains 1 [Source:HGNC Symbol;Acc:HGNC:19309]	1661	-0.74	0.0491	-15.0	4.5E-51	8.3E-50
ENSG00000165795	NDRG2	NDRG family member 2 [Source:HGNC Symbol;Acc:HGNC:14460]	157	-2.69	0.1788	-15.0	5.2E-51	9.5E-50
ENSG00000105825	TFPI2	tissue factor pathway inhibitor 2 [Source:HGNC Symbol;Acc:HGNC:11761]	1896	-0.72	0.0480	-15.0	5.7E-51	1.0E-49
ENSG00000106078	COBL	cordón-bleu WH2 repeat protein [Source:HGNC Symbol;Acc:HGNC:22199]	168	-2.59	0.1738	-14.9	2.2E-50	3.9E-49
ENSG00000163812	ZDHHC3	zinc finger DHHC-type palmitoyltransferase 3 [Source:HGNC Symbol;Acc:HGNC:18470]	3308	-0.56	0.0376	-14.9	2.2E-50	4.0E-49
ENSG00000110076	NRXN2	neurexin 2 [Source:HGNC Symbol;Acc:HGNC:8009]	123	-4.48	0.3005	-14.9	2.5E-50	4.6E-49
ENSG00000186529	CYP4F3	cytochrome P450 family 4 subfamily F member 3 [Source:HGNC Symbol;Acc:HGNC:2646]	472	-1.36	0.0913	-14.9	4.1E-50	7.3E-49
ENSG00000156711	MAPK13	mitogen-activated protein kinase 13 [Source:HGNC Symbol;Acc:HGNC:6875]	2266	-0.64	0.0427	-14.9	4.4E-50	7.8E-49
ENSG00000176641	RNF152	ring finger protein 152 [Source:HGNC Symbol;Acc:HGNC:26811]	143	-2.83	0.1910	-14.8	1.3E-49	2.4E-48
ENSG00000168743	NPNT	nephronectin [Source:HGNC Symbol;Acc:HGNC:27405]	607	-1.16	0.0783	-14.8	1.9E-49	3.4E-48
ENSG00000105852	PON3	paraoxonase 3 [Source:HGNC Symbol;Acc:HGNC:9206]	237	-1.99	0.1352	-14.7	4.2E-49	7.4E-48
ENSG00000021645	NRXN3	neurexin 3 [Source:HGNC Symbol;Acc:HGNC:8010]	173	-6.37	0.4337	-14.7	6.6E-49	1.2E-47

ENSG00000170381	SEMA3E	semaphorin 3E [Source:HGNC Symbol;Acc:HGNC:10727]	840	-1.07	0.0731	-14.7	1.3E-48	2.2E-47
ENSG00000110911	SLC11A2	solute carrier family 11 member 2 [Source:HGNC Symbol;Acc:HGNC:10908]	1625	-0.76	0.0519	-14.6	2.2E-48	3.8E-47
ENSG00000168907	PLA2G4F	phospholipase A2 group IVF [Source:HGNC Symbol;Acc:HGNC:27396]	127	-3.14	0.2151	-14.6	3.1E-48	5.4E-47
ENSG00000112782	CLIC5	chloride intracellular channel 5 [Source:HGNC Symbol;Acc:HGNC:13517]	341	-1.66	0.1137	-14.6	3.7E-48	6.4E-47
ENSG00000077942	FBLN1	fibulin 1 [Source:HGNC Symbol;Acc:HGNC:3600]	3673	-0.58	0.0400	-14.6	5.0E-48	8.7E-47
ENSG00000169758	TMEM266	transmembrane protein 266 [Source:HGNC Symbol;Acc:HGNC:26763]	136	-2.99	0.2051	-14.6	5.3E-48	9.2E-47
ENSG00000115758	ODC1	ornithine decarboxylase 1 [Source:HGNC Symbol;Acc:HGNC:8109]	2767	-0.59	0.0409	-14.5	6.9E-48	1.2E-46
ENSG00000180900	SCRIB	scribble planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:30377]	4739	-0.58	0.0401	-14.5	7.9E-48	1.4E-46
ENSG00000120162	MOB3B	MOB kinase activator 3B [Source:HGNC Symbol;Acc:HGNC:23825]	1696	-0.76	0.0525	-14.5	9.2E-48	1.6E-46
ENSG00000116141	MARK1	microtubule affinity regulating kinase 1 [Source:HGNC Symbol;Acc:HGNC:6896]	213	-2.22	0.1532	-14.5	1.6E-47	2.8E-46
ENSG00000214491	SEC14L6	SEC14 like lipid binding 6 [Source:HGNC Symbol;Acc:HGNC:40047]	112	-4.49	0.3109	-14.4	3.0E-47	5.1E-46
ENSG00000179051	RCC2	regulator of chromosome condensation 2 [Source:HGNC Symbol;Acc:HGNC:30297]	2303	-0.63	0.0436	-14.4	3.3E-47	5.6E-46
ENSG00000163141	BNIP1	BCL2 interacting protein like [Source:HGNC Symbol;Acc:HGNC:16976]	111	-4.00	0.2775	-14.4	3.7E-47	6.3E-46
ENSG00000259820	ENSG00000259820	novel transcript	624	-1.15	0.0797	-14.4	4.2E-47	7.2E-46
ENSG00000152990	ADGRA3	adhesion G protein-coupled receptor A3 [Source:HGNC Symbol;Acc:HGNC:13839]	1998	-0.65	0.0454	-14.4	4.4E-47	7.5E-46
ENSG00000149218	ENDOD1	endonuclease domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29129]	4101	-0.51	0.0357	-14.4	4.8E-47	8.2E-46
ENSG00000102452	NALCN	sodium leak channel, non-selective [Source:HGNC Symbol;Acc:HGNC:19082]	202	-2.11	0.1464	-14.4	5.1E-47	8.7E-46
ENSG00000180875	GREM2	gremlin 2, DAN family BMP antagonist [Source:HGNC Symbol;Acc:HGNC:17655]	110	-3.95	0.2747	-14.4	5.9E-47	1.0E-45
ENSG00000164684	ZNF704	zinc finger protein 704 [Source:HGNC Symbol;Acc:HGNC:32291]	1614	-0.73	0.0507	-14.4	9.2E-47	1.6E-45
ENSG00000137460	FHDC1	FH2 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29363]	694	-1.06	0.0740	-14.3	1.1E-46	1.9E-45
ENSG00000143924	EML4	EMAP like 4 [Source:HGNC Symbol;Acc:HGNC:1316]	1757	-0.71	0.0496	-14.3	1.2E-46	2.0E-45
ENSG00000158715	SLC45A3	solute carrier family 45 member 3 [Source:HGNC Symbol;Acc:HGNC:8642]	333	-1.61	0.1121	-14.3	1.6E-46	2.7E-45
ENSG00000119431	HDHD3	haloacid dehalogenase like hydrolase domain containing 3 [Source:HGNC Symbol;Acc:HGNC:28171]	804	-1.01	0.0706	-14.3	1.8E-46	3.0E-45
ENSG00000161800	RACGAP1	Rac GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:9804]	3428	-0.55	0.0385	-14.3	2.1E-46	3.5E-45
ENSG00000189051	RNF222	ring finger protein 222 [Source:HGNC Symbol;Acc:HGNC:34517]	424	-1.37	0.0958	-14.3	2.2E-46	3.7E-45
ENSG00000153294	ADGRF4	adhesion G protein-coupled receptor F4 [Source:HGNC Symbol;Acc:HGNC:19011]	2360	-0.63	0.0440	-14.3	2.6E-46	4.4E-45
ENSG00000116991	SIPA1L2	signal induced proliferation associated 1 like 2 [Source:HGNC Symbol;Acc:HGNC:23800]	886	-1.02	0.0711	-14.3	2.9E-46	4.8E-45
ENSG00000077585	GPR137B	G protein-coupled receptor 137B [Source:HGNC Symbol;Acc:HGNC:11862]	304	-1.65	0.1156	-14.3	4.0E-46	6.7E-45
ENSG00000164056	SPRY1	sprouty RTK signaling antagonist 1 [Source:HGNC Symbol;Acc:HGNC:11269]	149	-2.78	0.1951	-14.2	4.9E-46	8.2E-45
ENSG00000112984	KIF20A	kinesin family member 20A [Source:HGNC Symbol;Acc:HGNC:9787]	2505	-0.58	0.0410	-14.2	7.3E-46	1.2E-44
ENSG00000134198	TSPAN2	tetraspanin 2 [Source:HGNC Symbol;Acc:HGNC:20659]	180	-2.27	0.1604	-14.2	1.2E-45	2.0E-44
ENSG00000171346	KRT15	keratin 15 [Source:HGNC Symbol;Acc:HGNC:6421]	904	-0.95	0.0672	-14.1	3.1E-45	5.1E-44
ENSG00000153208	MERTK	MER proto-oncogene, tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:7027]	446	-1.30	0.0924	-14.1	3.4E-45	5.6E-44
ENSG00000139044	B4GALNT3	beta-1,4-N-acetyl-galactosaminyltransferase 3 [Source:HGNC Symbol;Acc:HGNC:24137]	808	-1.06	0.0756	-14.1	4.7E-45	7.8E-44
ENSG00000109193	SULT1E1	sulfotransferase family 1E member 1 [Source:HGNC Symbol;Acc:HGNC:11377]	107	-4.64	0.3298	-14.1	5.3E-45	8.8E-44
ENSG00000168887	C2orf68	chromosome 2 open reading frame 68 [Source:HGNC Symbol;Acc:HGNC:34353]	1942	-0.67	0.0478	-14.1	5.6E-45	9.2E-44
ENSG00000169607	CKAP2L	cytoskeleton associated protein 2 like [Source:HGNC Symbol;Acc:HGNC:26877]	1019	-0.86	0.0613	-14.1	5.9E-45	9.6E-44
ENSG00000113946	CLDN16	claudin 16 [Source:HGNC Symbol;Acc:HGNC:2037]	103	-4.21	0.2993	-14.1	7.4E-45	1.2E-43
ENSG00000181652	ATG9B	autophagy related 9B [Source:HGNC Symbol;Acc:HGNC:21899]	247	-1.87	0.1331	-14.0	7.8E-45	1.3E-43
ENSG00000019485	PRDM11	PR/SET domain 11 [Source:HGNC Symbol;Acc:HGNC:13996]	553	-1.18	0.0837	-14.0	9.8E-45	1.6E-43
ENSG00000112182	BACH2	BTB domain and CNC homolog 2 [Source:HGNC Symbol;Acc:HGNC:14078]	142	-2.66	0.1898	-14.0	1.2E-44	1.9E-43
ENSG00000171813	PWWP2B	PWWP domain containing 2B [Source:HGNC Symbol;Acc:HGNC:25150]	2183	-0.68	0.0488	-14.0	1.2E-44	2.0E-43

ENSG0000047597	XK	X-linked Kx blood group [Source:HGNC Symbol;Acc:HGNC:12811]	353	-1.59	0.1135	-14.0	1.5E-44	2.4E-43
ENSG00000143850	PLEKHA6	pleckstrin homology domain containing A6 [Source:HGNC Symbol;Acc:HGNC:17053]	448	-1.36	0.0969	-14.0	1.5E-44	2.5E-43
ENSG00000135679	MDM2	MDM2 proto-oncogene [Source:HGNC Symbol;Acc:HGNC:6973]	1127	-0.92	0.0660	-14.0	1.6E-44	2.6E-43
ENSG00000133112	TPT1	tumor protein, translationally-controlled 1 [Source:HGNC Symbol;Acc:HGNC:12022]	4035	-0.64	0.0461	-14.0	1.8E-44	2.9E-43
ENSG00000140443	IGF1R	insulin like growth factor 1 receptor [Source:HGNC Symbol;Acc:HGNC:5465]	796	-0.98	0.0704	-14.0	1.9E-44	3.1E-43
ENSG00000165474	GJB2	gap junction protein beta 2 [Source:HGNC Symbol;Acc:HGNC:4284]	103	-4.14	0.2963	-14.0	2.0E-44	3.2E-43
ENSG00000138623	SEMA7A	semaphorin 7A (John Milton Hagen blood group) [Source:HGNC Symbol;Acc:HGNC:10741]	1288	-0.81	0.0581	-14.0	2.1E-44	3.4E-43
ENSG00000163694	RBM47	RNA binding motif protein 47 [Source:HGNC Symbol;Acc:HGNC:30358]	1833	-0.68	0.0490	-14.0	2.3E-44	3.7E-43
ENSG00000205978	NYNRIN	NYN domain and retroviral integrase containing [Source:HGNC Symbol;Acc:HGNC:20165]	138	-2.70	0.1937	-13.9	3.9E-44	6.3E-43
ENSG00000064655	EYA2	EYA transcriptional coactivator and phosphatase 2 [Source:HGNC Symbol;Acc:HGNC:3520]	105	-4.20	0.3017	-13.9	4.0E-44	6.4E-43
ENSG00000274173	ENSG00000274173	novel transcript	875	-0.94	0.0679	-13.9	5.0E-44	7.9E-43
ENSG00000134258	VTCN1	V-set domain containing T cell activation inhibitor 1 [Source:HGNC Symbol;Acc:HGNC:28873]	704	-1.18	0.0848	-13.9	5.3E-44	8.4E-43
ENSG00000161671	EMC10	ER membrane protein complex subunit 10 [Source:HGNC Symbol;Acc:HGNC:27609]	3564	-0.53	0.0381	-13.9	6.6E-44	1.0E-42
ENSG00000119411	BSPRY	B-box and SPRY domain containing [Source:HGNC Symbol;Acc:HGNC:18232]	423	-1.41	0.1016	-13.9	7.0E-44	1.1E-42
ENSG00000106624	AEBP1	AE binding protein 1 [Source:HGNC Symbol;Acc:HGNC:303]	149	-2.54	0.1826	-13.9	7.3E-44	1.2E-42
ENSG00000111665	CDC43	cell division cycle associated 3 [Source:HGNC Symbol;Acc:HGNC:14624]	1237	-0.82	0.0588	-13.9	7.5E-44	1.2E-42
ENSG00000143126	CELSR2	cadherin EGF LAG seven-pass G-type receptor 2 [Source:HGNC Symbol;Acc:HGNC:3231]	1176	-0.86	0.0619	-13.9	8.0E-44	1.3E-42
ENSG00000158014	SLC30A2	solute carrier family 30 member 2 [Source:HGNC Symbol;Acc:HGNC:11013]	471	-5.76	0.4149	-13.9	8.4E-44	1.3E-42
ENSG00000049283	EPN3	epsin 3 [Source:HGNC Symbol;Acc:HGNC:18235]	844	-1.05	0.0758	-13.9	9.6E-44	1.5E-42
ENSG00000124507	PACSN1	protein kinase C and casein kinase substrate in neurons 1 [Source:HGNC Symbol;Acc:HGNC:8570]	102	-4.29	0.3097	-13.8	1.3E-43	2.1E-42
ENSG00000112902	SEMA5A	semaphorin 5A [Source:HGNC Symbol;Acc:HGNC:10736]	1908	-0.72	0.0521	-13.8	1.5E-43	2.3E-42
ENSG00000198535	C2CD4A	C2 calcium dependent domain containing 4A [Source:HGNC Symbol;Acc:HGNC:33627]	128	-2.82	0.2037	-13.8	1.7E-43	2.7E-42
ENSG00000101255	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:HGNC:16228]	1429	-0.82	0.0594	-13.8	1.9E-43	3.0E-42
ENSG00000198624	CCDC69	coiled-coil domain containing 69 [Source:HGNC Symbol;Acc:HGNC:24487]	359	-1.49	0.1080	-13.8	2.2E-43	3.5E-42
ENSG00000172057	ORMDL3	ORMDL sphingolipid biosynthesis regulator 3 [Source:HGNC Symbol;Acc:HGNC:16038]	1507	-0.71	0.0511	-13.8	2.4E-43	3.7E-42
ENSG00000137714	FDX1	ferredoxin 1 [Source:HGNC Symbol;Acc:HGNC:3638]	1050	-0.86	0.0620	-13.8	2.5E-43	4.0E-42
ENSG00000182898	TCHHL1	trichohyalin like 1 [Source:HGNC Symbol;Acc:HGNC:31796]	136	-6.03	0.4371	-13.8	2.9E-43	4.5E-42
ENSG00000090661	CERS4	ceramide synthase 4 [Source:HGNC Symbol;Acc:HGNC:23747]	346	-1.50	0.1088	-13.8	3.6E-43	5.7E-42
ENSG00000099875	MKNK2	MAPK interacting serine/threonine kinase 2 [Source:HGNC Symbol;Acc:HGNC:7111]	1468	-0.72	0.0525	-13.8	4.8E-43	7.4E-42
ENSG00000230937	MIR205HG	MIR205 host gene [Source:HGNC Symbol;Acc:HGNC:43562]	121	-5.52	0.4016	-13.8	4.8E-43	7.5E-42
ENSG00000187714	SLC18A3	solute carrier family 18 member A3 [Source:HGNC Symbol;Acc:HGNC:10936]	148	-2.50	0.1818	-13.7	5.1E-43	7.9E-42
ENSG00000003147	ICA1	islet cell autoantigen 1 [Source:HGNC Symbol;Acc:HGNC:5343]	231	-1.83	0.1334	-13.7	6.4E-43	9.9E-42
ENSG00000134291	TMEM106C	transmembrane protein 106C [Source:HGNC Symbol;Acc:HGNC:28775]	3824	-0.54	0.0391	-13.7	6.9E-43	1.1E-41
ENSG00000126003	PLAGL2	PLAG1 like zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:9047]	1050	-0.85	0.0619	-13.7	8.3E-43	1.3E-41
ENSG00000176092	CRYBG2	crystallin beta-gamma domain containing 2 [Source:HGNC Symbol;Acc:HGNC:17295]	906	-0.94	0.0687	-13.7	8.8E-43	1.4E-41
ENSG00000168014	C2CD3	C2 domain containing 3 centriole elongation regulator [Source:HGNC Symbol;Acc:HGNC:24564]	1583	-0.70	0.0510	-13.7	1.1E-42	1.7E-41
ENSG00000164176	EDIL3	EGF like repeats and discoidin domains 3 [Source:HGNC Symbol;Acc:HGNC:3173]	234	-7.60	0.5550	-13.7	1.1E-42	1.7E-41
ENSG00000133110	POSTN	periostin [Source:HGNC Symbol;Acc:HGNC:16953]	101	-3.92	0.2863	-13.7	1.4E-42	2.1E-41
ENSG00000182379	NXP4	neurexophilin 4 [Source:HGNC Symbol;Acc:HGNC:8078]	369	-1.48	0.1085	-13.7	1.4E-42	2.1E-41
ENSG00000125967	NECAB3	N-terminal EF-hand calcium binding protein 3 [Source:HGNC Symbol;Acc:HGNC:15851]	1620	-0.69	0.0508	-13.7	1.5E-42	2.3E-41
ENSG00000100505	TRIM9	tripartite motif containing 9 [Source:HGNC Symbol;Acc:HGNC:16288]	297	-1.71	0.1251	-13.7	1.9E-42	2.9E-41
ENSG00000156675	RAB11FIP1	RAB11 family interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:30265]	1199	-0.83	0.0605	-13.6	2.1E-42	3.2E-41

ENSG00000140479	PCSK6	proprotein convertase subtilisin/kexin type 6 [Source:HGNC Symbol;Acc:HGNC:8569]	148	-2.44	0.1789	-13.6	3.0E-42	4.6E-41
ENSG00000115919	KYNU	kynureninase [Source:HGNC Symbol;Acc:HGNC:6469]	143	-6.22	0.4571	-13.6	3.7E-42	5.6E-41
ENSG00000110841	PPF1BP1	PPF1A binding protein 1 [Source:HGNC Symbol;Acc:HGNC:9249]	1930	-0.63	0.0463	-13.6	3.7E-42	5.6E-41
ENSG00000124343	XG	Xg glycoprotein (Xg blood group) [Source:HGNC Symbol;Acc:HGNC:12806]	99	-3.83	0.2819	-13.6	4.5E-42	6.9E-41
ENSG00000156970	BUB1B	BUB1 mitotic checkpoint serine/threonine kinase B [Source:HGNC Symbol;Acc:HGNC:1149]	1559	-0.72	0.0528	-13.6	6.3E-42	9.5E-41
ENSG00000285820	ENSG000002	Novel transcript, antisense to ASTN2	126	-2.78	0.2052	-13.6	6.3E-42	9.5E-41
ENSG00000146950	SHROOM2	shroom family member 2 [Source:HGNC Symbol;Acc:HGNC:630]	127	-2.81	0.2070	-13.6	7.2E-42	1.1E-40
ENSG00000117399	CDC20	cell division cycle 20 [Source:HGNC Symbol;Acc:HGNC:1723]	5073	-0.55	0.0407	-13.6	7.8E-42	1.2E-40
ENSG00000169247	SH3TC2	SH3 domain and tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:29427]	786	-0.95	0.0704	-13.5	1.5E-41	2.3E-40
ENSG00000117650	NEK2	NIMA related kinase 2 [Source:HGNC Symbol;Acc:HGNC:7745]	1497	-0.71	0.0524	-13.5	1.8E-41	2.7E-40
ENSG00000196547	MAN2A2	mannosidase alpha class 2A member 2 [Source:HGNC Symbol;Acc:HGNC:6825]	1060	-0.90	0.0664	-13.5	1.8E-41	2.7E-40
ENSG00000205268	PDE7A	phosphodiesterase 7A [Source:HGNC Symbol;Acc:HGNC:8791]	472	-1.20	0.0890	-13.5	2.4E-41	3.6E-40
ENSG00000120616	EPC1	enhancer of polycomb homolog 1 [Source:HGNC Symbol;Acc:HGNC:19876]	597	-1.06	0.0790	-13.4	3.4E-41	5.1E-40
ENSG00000174080	CTSF	cathepsin F [Source:HGNC Symbol;Acc:HGNC:2531]	632	-1.08	0.0804	-13.4	3.4E-41	5.1E-40
ENSG00000170677	SOCS6	suppressor of cytokine signaling 6 [Source:HGNC Symbol;Acc:HGNC:16833]	1301	-0.74	0.0554	-13.4	3.5E-41	5.2E-40
ENSG00000171401	KRT13	keratin 13 [Source:HGNC Symbol;Acc:HGNC:6415]	97	-3.79	0.2820	-13.4	3.5E-41	5.3E-40
ENSG00000184402	SS18L1	SS18L1 subunit of BAF chromatin remodeling complex [Source:HGNC Symbol;Acc:HGNC:15592]	2060	-0.61	0.0455	-13.4	3.6E-41	5.3E-40
ENSG00000182013	PNMA8A	PNMA family member 8A [Source:HGNC Symbol;Acc:HGNC:25578]	1045	-0.89	0.0660	-13.4	3.6E-41	5.4E-40
ENSG00000111540	RAB5B	RAB5B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9784]	2172	-0.62	0.0463	-13.4	3.8E-41	5.7E-40
ENSG00000148498	PAR3	par-3 family cell polarity regulator [Source:HGNC Symbol;Acc:HGNC:16051]	3133	-0.53	0.0394	-13.4	3.9E-41	5.8E-40
ENSG00000146802	TMEM168	transmembrane protein 168 [Source:HGNC Symbol;Acc:HGNC:25826]	816	-0.91	0.0680	-13.4	5.9E-41	8.8E-40
ENSG00000100784	RPS6KA5	ribosomal protein S6 kinase A5 [Source:HGNC Symbol;Acc:HGNC:10434]	201	-1.97	0.1468	-13.4	7.4E-41	1.1E-39
ENSG00000132819	RBM38	RNA binding motif protein 38 [Source:HGNC Symbol;Acc:HGNC:15818]	1125	-0.82	0.0612	-13.4	8.1E-41	1.2E-39
ENSG00000058668	ATP2B4	ATPase plasma membrane Ca2+ transporting 4 [Source:HGNC Symbol;Acc:HGNC:817]	2029	-0.64	0.0481	-13.4	8.9E-41	1.3E-39
ENSG00000154556	SORBS2	sorbin and SH3 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24098]	111	-5.49	0.4120	-13.3	1.5E-40	2.2E-39
ENSG00000166398	GARRE1	granule associated Rac and RHOG effector 1 [Source:HGNC Symbol;Acc:HGNC:29016]	1100	-0.82	0.0617	-13.3	1.5E-40	2.2E-39
ENSG00000151414	NEK7	NIMA related kinase 7 [Source:HGNC Symbol;Acc:HGNC:13386]	3216	-0.54	0.0409	-13.3	1.8E-40	2.6E-39
ENSG00000182985	CADM1	cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:5951]	1042	-0.82	0.0616	-13.3	2.6E-40	3.8E-39
ENSG00000074855	ANO8	anoctamin 8 [Source:HGNC Symbol;Acc:HGNC:29329]	695	-0.98	0.0739	-13.3	4.3E-40	6.3E-39
ENSG00000135476	ESPL1	extra spindle pole bodies like 1, separase [Source:HGNC Symbol;Acc:HGNC:16856]	1425	-0.68	0.0518	-13.2	5.8E-40	8.5E-39
ENSG00000141449	GREB1L	GREB1 like retinoic acid receptor coactivator [Source:HGNC Symbol;Acc:HGNC:31042]	836	-0.92	0.0698	-13.2	8.3E-40	1.2E-38
ENSG00000109654	TRIM2	tripartite motif containing 2 [Source:HGNC Symbol;Acc:HGNC:15974]	1647	-0.72	0.0542	-13.2	8.7E-40	1.3E-38
ENSG00000182580	EPHB3	EPH receptor B3 [Source:HGNC Symbol;Acc:HGNC:3394]	811	-0.92	0.0698	-13.2	1.1E-39	1.6E-38
ENSG00000205325	ENSG000002	novel transcript	108	-5.46	0.4146	-13.2	1.2E-39	1.8E-38
ENSG00000111911	HINT3	histidine triad nucleotide binding protein 3 [Source:HGNC Symbol;Acc:HGNC:18468]	402	-1.34	0.1014	-13.2	1.3E-39	1.8E-38
ENSG00000092445	TYRO3	TYRO3 protein tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:12446]	825	-0.94	0.0713	-13.2	1.4E-39	2.1E-38
ENSG00000148730	EIF4EBP2	eukaryotic translation initiation factor 4E binding protein 2 [Source:HGNC Symbol;Acc:HGNC:3289]	3243	-0.58	0.0437	-13.2	1.6E-39	2.3E-38
ENSG00000156052	GNAQ	G protein subunit alpha q [Source:HGNC Symbol;Acc:HGNC:4390]	2873	-0.51	0.0387	-13.1	1.8E-39	2.6E-38
ENSG00000120053	GOT1	glutamic-oxaloacetic transaminase 1 [Source:HGNC Symbol;Acc:HGNC:4432]	2532	-0.57	0.0433	-13.1	1.8E-39	2.6E-38
ENSG00000112293	GPLD1	glycosylphosphatidylinositol specific phospholipase D1 [Source:HGNC Symbol;Acc:HGNC:4459]	159	-2.30	0.1753	-13.1	1.9E-39	2.7E-38
NA	22	NA	188	-1.97	0.1504	-13.1	2.4E-39	3.5E-38
ENSG00000244509	APOBEC3C	apolipoprotein B mRNA editing enzyme catalytic subunit 3C [Source:HGNC Symbol;Acc:HGNC:17353]	346	-1.35	0.1032	-13.1	3.0E-39	4.2E-38

ENSG00000137948	BRDT	bromodomain testis associated [Source:HGNC Symbol;Acc:HGNC:1105]	100	-3.31	0.2526	-13.1	3.5E-39	5.0E-38
ENSG00000105514	RAB3D	RAB3D, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9779]	418	-1.27	0.0971	-13.1	4.0E-39	5.8E-38
ENSG00000015133	CCDC88C	coiled-coil domain containing 88C [Source:HGNC Symbol;Acc:HGNC:19967]	138	-2.44	0.1864	-13.1	4.4E-39	6.2E-38
ENSG00000124181	PLCG1	phospholipase C gamma 1 [Source:HGNC Symbol;Acc:HGNC:9065]	2550	-0.54	0.0411	-13.1	5.5E-39	7.8E-38
ENSG00000158352	SHROOM4	shroom family member 4 [Source:HGNC Symbol;Acc:HGNC:29215]	99	-5.13	0.3932	-13.1	6.0E-39	8.5E-38
ENSG00000180739	S1PR5	sphingosine-1-phosphate receptor 5 [Source:HGNC Symbol;Acc:HGNC:14299]	436	-1.41	0.1081	-13.0	8.0E-39	1.1E-37
ENSG00000153714	LURAP1L	leucine rich adaptor protein 1 like [Source:HGNC Symbol;Acc:HGNC:31452]	619	-1.00	0.0769	-13.0	8.5E-39	1.2E-37
ENSG00000083290	ULK2	unc-51 like autophagy activating kinase 2 [Source:HGNC Symbol;Acc:HGNC:13480]	811	-0.91	0.0702	-13.0	9.7E-39	1.4E-37
ENSG00000171462	DLK2	delta like non-canonical Notch ligand 2 [Source:HGNC Symbol;Acc:HGNC:21113]	285	-1.51	0.1159	-13.0	1.1E-38	1.5E-37
ENSG00000029534	ANK1	ankyrin 1 [Source:HGNC Symbol;Acc:HGNC:492]	236	-1.75	0.1348	-13.0	1.6E-38	2.3E-37
ENSG00000160685	ZBTB7B	zinc finger and BTB domain containing 7B [Source:HGNC Symbol;Acc:HGNC:18668]	1673	-0.64	0.0495	-13.0	2.0E-38	2.7E-37
ENSG00000197070	ARRDC1	arrestin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28633]	1466	-0.67	0.0517	-13.0	2.1E-38	2.9E-37
ENSG00000184226	PCDH9	protocadherin 9 [Source:HGNC Symbol;Acc:HGNC:8661]	108	-2.94	0.2271	-13.0	2.1E-38	3.0E-37
ENSG00000138735	PDE5A	phosphodiesterase 5A [Source:HGNC Symbol;Acc:HGNC:8784]	355	-1.32	0.1022	-13.0	2.2E-38	3.0E-37
ENSG00000149591	TAGLN	transgelin [Source:HGNC Symbol;Acc:HGNC:11553]	200	-1.87	0.1448	-12.9	3.9E-38	5.4E-37
ENSG000000237499	WAKMAR2	wound and keratinocyte migration associated lncRNA 2 [Source:HGNC Symbol;Acc:HGNC:53754]	151	-2.18	0.1688	-12.9	4.2E-38	5.8E-37
ENSG00000154930	ACSS1	acyl-CoA synthetase short chain family member 1 [Source:HGNC Symbol;Acc:HGNC:16091]	701	-0.95	0.0737	-12.9	4.2E-38	5.9E-37
ENSG00000119899	SLC17A5	solute carrier family 17 member 5 [Source:HGNC Symbol;Acc:HGNC:10933]	450	-1.21	0.0937	-12.9	4.9E-38	6.8E-37
ENSG00000168300	PCMTD1	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10933]	507	-1.14	0.0886	-12.9	5.7E-38	7.9E-37
ENSG00000145675	PIK3R1	phosphoinositide-3-kinase regulatory subunit 1 [Source:HGNC Symbol;Acc:HGNC:8979]	626	-1.04	0.0812	-12.8	9.6E-38	1.3E-36
ENSG00000187091	PLCD1	phospholipase C delta 1 [Source:HGNC Symbol;Acc:HGNC:9060]	1128	-0.80	0.0624	-12.8	1.6E-37	2.2E-36
ENSG00000140396	NCOA2	nuclear receptor coactivator 2 [Source:HGNC Symbol;Acc:HGNC:7669]	1464	-0.67	0.0528	-12.8	2.1E-37	2.9E-36
ENSG00000175215	CTDSP2	CTD small phosphatase 2 [Source:HGNC Symbol;Acc:HGNC:17077]	2597	-0.54	0.0423	-12.8	2.2E-37	3.0E-36
ENSG00000166562	SEC11C	SEC11 homolog C, signal peptidase complex subunit [Source:HGNC Symbol;Acc:HGNC:23400]	744	-1.00	0.0783	-12.8	2.7E-37	3.7E-36
ENSG00000276600	RAB7B	RAB7B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:30513]	1372	-0.69	0.0545	-12.8	2.8E-37	3.8E-36
ENSG00000136944	LMX1B	LIM homeobox transcription factor 1 beta [Source:HGNC Symbol;Acc:HGNC:6654]	168	-2.08	0.1634	-12.8	3.0E-37	4.1E-36
ENSG00000006659	LGALS14	galectin 14 [Source:HGNC Symbol;Acc:HGNC:30054]	129	-6.36	0.4993	-12.7	3.5E-37	4.8E-36
ENSG00000113532	ST8SIA4	ST8 alpha-N-acetylneuraminide alpha-2,8-sialyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:10871]	102	-3.10	0.2433	-12.7	4.0E-37	5.4E-36
ENSG00000000971	CFH	complement factor H [Source:HGNC Symbol;Acc:HGNC:4883]	86	-4.37	0.3433	-12.7	4.1E-37	5.6E-36
ENSG00000182103	FAM181B	family with sequence similarity 181 member B [Source:HGNC Symbol;Acc:HGNC:28512]	132	-2.55	0.2003	-12.7	4.8E-37	6.6E-36
ENSG00000164830	OXR1	oxidation resistance 1 [Source:HGNC Symbol;Acc:HGNC:15822]	1198	-0.75	0.0591	-12.7	5.5E-37	7.4E-36
ENSG00000165029	ABCA1	ATP binding cassette subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:29]	629	-1.00	0.0788	-12.7	7.0E-37	9.5E-36
ENSG00000116191	RALGPS2	Ral GEF with PH domain and SH3 binding motif 2 [Source:HGNC Symbol;Acc:HGNC:30279]	1418	-0.74	0.0585	-12.7	8.2E-37	1.1E-35
ENSG00000101146	RAE1	ribonucleic acid export 1 [Source:HGNC Symbol;Acc:HGNC:9828]	2279	-0.59	0.0462	-12.7	8.3E-37	1.1E-35
ENSG00000101198	NKAIN4	sodium/potassium transporting ATPase interacting 4 [Source:HGNC Symbol;Acc:HGNC:16191]	89	-4.89	0.3860	-12.7	9.7E-37	1.3E-35
ENSG00000134202	GSTM3	glutathione S-transferase mu 3 [Source:HGNC Symbol;Acc:HGNC:4635]	167	-2.09	0.1652	-12.7	1.1E-36	1.5E-35
ENSG00000127954	STEAP4	STEAP4 metalloredutase [Source:HGNC Symbol;Acc:HGNC:21923]	221	-1.81	0.1434	-12.6	2.0E-36	2.7E-35
ENSG00000155324	GRAMD2B	GRAM domain containing 2B [Source:HGNC Symbol;Acc:HGNC:24911]	575	-1.03	0.0817	-12.6	2.1E-36	2.8E-35
ENSG00000128710	HOXD10	homeobox D10 [Source:HGNC Symbol;Acc:HGNC:5133]	158	-2.20	0.1748	-12.6	2.1E-36	2.8E-35
ENSG00000173218	VANGL1	VANGL planar cell polarity protein 1 [Source:HGNC Symbol;Acc:HGNC:15512]	1829	-0.59	0.0471	-12.6	2.5E-36	3.3E-35
ENSG00000278540	ACACA	acetyl-CoA carboxylase alpha [Source:HGNC Symbol;Acc:HGNC:84]	2222	-0.58	0.0457	-12.6	2.7E-36	3.6E-35
ENSG00000121742	GJB6	gap junction protein beta 6 [Source:HGNC Symbol;Acc:HGNC:4288]	138	-6.64	0.5287	-12.6	3.5E-36	4.6E-35

ENSG00000100242	SUN2	Sad1 and UNC84 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:14210]	2291	-0.55	0.0436	-12.5	4.2E-36	5.6E-35
ENSG00000173334	TRIB1	tribbles pseudokinase 1 [Source:HGNC Symbol;Acc:HGNC:16891]	1301	-0.75	0.0597	-12.5	6.5E-36	8.7E-35
ENSG00000197312	DDI2	DNA damage inducible 1 homolog 2 [Source:HGNC Symbol;Acc:HGNC:24578]	1102	-0.84	0.0673	-12.5	6.8E-36	9.0E-35
ENSG00000178996	SNX18	sorting nexin 18 [Source:HGNC Symbol;Acc:HGNC:19245]	886	-0.87	0.0694	-12.5	1.0E-35	1.4E-34
ENSG00000147144	CCDC120	coiled-coil domain containing 120 [Source:HGNC Symbol;Acc:HGNC:28910]	591	-1.09	0.0873	-12.5	1.3E-35	1.7E-34
ENSG00000114268	PFKFB4	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 [Source:HGNC Symbol;Acc:HGNC:8875]	363	-1.29	0.1039	-12.4	1.4E-35	1.9E-34
ENSG00000170561	IRX2	iroquois homeobox 2 [Source:HGNC Symbol;Acc:HGNC:14359]	1215	-0.75	0.0600	-12.4	1.6E-35	2.1E-34
ENSG00000117984	CTSD	cathepsin D [Source:HGNC Symbol;Acc:HGNC:2529]	1262	-0.75	0.0606	-12.4	1.9E-35	2.5E-34
ENSG00000107362	ABHD17B	abhydrolase domain containing 17B, depalmitoylase [Source:HGNC Symbol;Acc:HGNC:24278]	445	-1.15	0.0928	-12.4	1.9E-35	2.5E-34
ENSG00000109670	FBXW7	F-box and WD repeat domain containing 7 [Source:HGNC Symbol;Acc:HGNC:16712]	1048	-0.75	0.0606	-12.4	2.0E-35	2.7E-34
ENSG00000102471	NDFIP2	Nedd4 family interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:18537]	2146	-0.61	0.0491	-12.4	2.6E-35	3.4E-34
ENSG00000095203	EPB41L4B	erythrocyte membrane protein band 4.1 like 4B [Source:HGNC Symbol;Acc:HGNC:19818]	849	-0.87	0.0698	-12.4	2.8E-35	3.6E-34
ENSG00000141627	DYM	dymeclin [Source:HGNC Symbol;Acc:HGNC:21317]	598	-0.98	0.0791	-12.4	2.9E-35	3.8E-34
ENSG00000136856	SLC2A8	solute carrier family 2 member 8 [Source:HGNC Symbol;Acc:HGNC:13812]	325	-1.33	0.1073	-12.4	3.0E-35	3.9E-34
ENSG00000147202	DIAPH2	diaphanous related formin 2 [Source:HGNC Symbol;Acc:HGNC:2877]	111	-2.64	0.2133	-12.4	3.4E-35	4.4E-34
ENSG00000140022	STON2	stonin 2 [Source:HGNC Symbol;Acc:HGNC:30652]	1000	-0.82	0.0664	-12.4	3.6E-35	4.8E-34
ENSG00000174669	SLC29A2	solute carrier family 29 member 2 [Source:HGNC Symbol;Acc:HGNC:11004]	285	-1.46	0.1184	-12.4	4.3E-35	5.6E-34
ENSG00000134323	MYCN	MYCN proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7559]	101	-5.71	0.4622	-12.4	4.5E-35	5.8E-34
ENSG00000105854	PON2	paraoxonase 2 [Source:HGNC Symbol;Acc:HGNC:9205]	1286	-0.69	0.0561	-12.3	4.9E-35	6.4E-34
ENSG00000167202	TBC1D2B	TBC1 domain family member 2B [Source:HGNC Symbol;Acc:HGNC:29183]	935	-0.86	0.0696	-12.3	5.5E-35	7.1E-34
ENSG00000185585	OLFML2A	olfactomedin like 2A [Source:HGNC Symbol;Acc:HGNC:27270]	860	-0.84	0.0680	-12.3	5.8E-35	7.5E-34
ENSG00000101098	RIMS4	regulating synaptic membrane exocytosis 4 [Source:HGNC Symbol;Acc:HGNC:16183]	999	-0.76	0.0616	-12.3	5.8E-35	7.5E-34
ENSG00000139182	CLSTN3	calsyntenin 3 [Source:HGNC Symbol;Acc:HGNC:18371]	273	-1.48	0.1200	-12.3	6.5E-35	8.4E-34
ENSG00000175318	GRAMD2A	GRAM domain containing 2A [Source:HGNC Symbol;Acc:HGNC:27287]	330	-1.30	0.1052	-12.3	6.9E-35	8.9E-34
ENSG00000149600	COMMD7	COMM domain containing 7 [Source:HGNC Symbol;Acc:HGNC:16223]	700	-1.07	0.0868	-12.3	7.0E-35	9.0E-34
ENSG00000126787	DLGAP5	DLG associated protein 5 [Source:HGNC Symbol;Acc:HGNC:16864]	1708	-0.60	0.0484	-12.3	9.3E-35	1.2E-33
ENSG00000075945	KIFAP3	kinesin associated protein 3 [Source:HGNC Symbol;Acc:HGNC:17060]	726	-0.88	0.0717	-12.3	9.7E-35	1.3E-33
ENSG00000153395	LPCAT1	lysophosphatidylcholine acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:25718]	1881	-0.63	0.0514	-12.3	1.1E-34	1.4E-33
ENSG00000134780	DAGLA	diacylglycerol lipase alpha [Source:HGNC Symbol;Acc:HGNC:1165]	226	-1.69	0.1378	-12.3	1.1E-34	1.5E-33
ENSG00000159023	EPB41	erythrocyte membrane protein band 4.1 [Source:HGNC Symbol;Acc:HGNC:3377]	212	-1.71	0.1390	-12.3	1.2E-34	1.6E-33
ENSG00000167191	GPRC5B	G protein-coupled receptor class C group 5 member B [Source:HGNC Symbol;Acc:HGNC:13308]	388	-1.27	0.1038	-12.3	1.4E-34	1.8E-33
ENSG00000234456	MAGI2-AS3	MAGI2 antisense RNA 3 [Source:HGNC Symbol;Acc:HGNC:40862]	81	-4.58	0.3735	-12.3	1.5E-34	1.9E-33
ENSG00000106799	TGFBR1	transforming growth factor beta receptor 1 [Source:HGNC Symbol;Acc:HGNC:11772]	908	-0.84	0.0683	-12.2	1.7E-34	2.1E-33
ENSG00000261150	EPPK1	epiplakin 1 [Source:HGNC Symbol;Acc:HGNC:15577]	159	-2.01	0.1643	-12.2	1.8E-34	2.3E-33
ENSG00000118402	ELOVL4	ELOVL fatty acid elongase 4 [Source:HGNC Symbol;Acc:HGNC:14415]	394	-1.17	0.0956	-12.2	1.8E-34	2.3E-33
ENSG00000159921	GNE	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase [Source:HGNC Symbol;Acc:HGNC:14415]	1579	-0.62	0.0506	-12.2	2.5E-34	3.1E-33
ENSG00000109046	WSB1	WD repeat and SOCS box containing 1 [Source:HGNC Symbol;Acc:HGNC:19221]	2092	-0.54	0.0442	-12.2	2.6E-34	3.3E-33
ENSG00000122778	KIAA1549	KIAA1549 [Source:HGNC Symbol;Acc:HGNC:22219]	448	-1.14	0.0935	-12.2	2.7E-34	3.4E-33
ENSG00000180964	TCEAL8	transcription elongation factor A like 8 [Source:HGNC Symbol;Acc:HGNC:28683]	528	-1.02	0.0835	-12.2	2.8E-34	3.6E-33
ENSG00000124171	PAR6B	par-6 family cell polarity regulator beta [Source:HGNC Symbol;Acc:HGNC:16245]	322	-1.35	0.1109	-12.2	4.9E-34	6.1E-33
ENSG00000224597	SVIL-AS1	SVIL antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:51219]	560	-1.01	0.0834	-12.2	5.4E-34	6.8E-33
ENSG00000134690	CDCA8	cell division cycle associated 8 [Source:HGNC Symbol;Acc:HGNC:14629]	2012	-0.55	0.0453	-12.1	6.1E-34	7.7E-33

ENSG00000196628	TCF4	transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:11634]	264	-1.56	0.1287	-12.1	7.8E-34	9.8E-33
ENSG00000183621	ZNF438	zinc finger protein 438 [Source:HGNC Symbol;Acc:HGNC:21029]	122	-2.40	0.1978	-12.1	9.0E-34	1.1E-32
ENSG00000139433	GLTP	glycolipid transfer protein [Source:HGNC Symbol;Acc:HGNC:24867]	1235	-0.70	0.0581	-12.1	9.7E-34	1.2E-32
ENSG00000180891	CUEDC1	CUE domain containing 1 [Source:HGNC Symbol;Acc:HGNC:31350]	1352	-0.72	0.0595	-12.1	9.7E-34	1.2E-32
ENSG00000151893	CACUL1	CDK2 associated cullin domain 1 [Source:HGNC Symbol;Acc:HGNC:23727]	1472	-0.72	0.0592	-12.1	1.0E-33	1.3E-32
ENSG00000075218	GTSE1	G2 and S-phase expressed 1 [Source:HGNC Symbol;Acc:HGNC:13698]	2109	-0.56	0.0464	-12.1	1.2E-33	1.5E-32
ENSG00000165025	SYK	spleen associated tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:11491]	77	-3.77	0.3127	-12.1	1.7E-33	2.2E-32
ENSG00000107672	NSMCE4A	NSE4 homolog A, SMC5-SMC6 complex component [Source:HGNC Symbol;Acc:HGNC:25935]	543	-0.99	0.0822	-12.1	1.9E-33	2.3E-32
ENSG00000179348	GATA2	GATA binding protein 2 [Source:HGNC Symbol;Acc:HGNC:4171]	1533	-0.64	0.0534	-12.0	2.2E-33	2.8E-32
ENSG00000148842	CNNM2	cyclin and CBS domain divalent metal cation transport mediator 2 [Source:HGNC Symbol;Acc:HGNC:103	596	-0.95	0.0787	-12.0	2.4E-33	2.9E-32
ENSG00000154227	CERS3	ceramide synthase 3 [Source:HGNC Symbol;Acc:HGNC:23752]	87	-3.13	0.2603	-12.0	2.9E-33	3.5E-32
ENSG00000064763	FAR2	fatty acyl-CoA reductase 2 [Source:HGNC Symbol;Acc:HGNC:25531]	110	-2.50	0.2084	-12.0	3.1E-33	3.9E-32
ENSG00000105880	DLX5	distal-less homeobox 5 [Source:HGNC Symbol;Acc:HGNC:2918]	175	-1.95	0.1621	-12.0	3.5E-33	4.4E-32
ENSG00000154265	ABCA5	ATP binding cassette subfamily A member 5 [Source:HGNC Symbol;Acc:HGNC:35]	525	-0.99	0.0828	-12.0	3.8E-33	4.7E-32
ENSG00000182218	HHIPL1	HHIP like 1 [Source:HGNC Symbol;Acc:HGNC:19710]	173	-1.83	0.1529	-12.0	3.8E-33	4.7E-32
ENSG00000168214	RBPJ	recombination signal binding protein for immunoglobulin kappa J region [Source:HGNC Symbol;Acc:HG	1236	-0.67	0.0562	-12.0	3.9E-33	4.8E-32
ENSG00000239697	TNFSF12	TNF superfamily member 12 [Source:HGNC Symbol;Acc:HGNC:11927]	96	-2.83	0.2364	-12.0	4.2E-33	5.2E-32
ENSG00000101109	STK4	serine/threonine kinase 4 [Source:HGNC Symbol;Acc:HGNC:11408]	2070	-0.54	0.0453	-12.0	4.5E-33	5.5E-32
ENSG00000189280	GJB5	gap junction protein beta 5 [Source:HGNC Symbol;Acc:HGNC:4287]	203	-1.72	0.1436	-12.0	4.7E-33	5.8E-32
ENSG00000267023	LRR37A16P	leucine rich repeat containing 37 member A16, pseudogene [Source:HGNC Symbol;Acc:HGNC:43820]	195	-1.69	0.1409	-12.0	4.8E-33	5.9E-32
ENSG00000157837	SPPL3	signal peptide peptidase like 3 [Source:HGNC Symbol;Acc:HGNC:30424]	1138	-0.70	0.0586	-12.0	5.1E-33	6.3E-32
ENSG00000102349	KLF8	Kruppel like factor 8 [Source:HGNC Symbol;Acc:HGNC:6351]	741	-0.85	0.0712	-12.0	5.8E-33	7.1E-32
ENSG00000166483	WEE1	WEE1 G2 checkpoint kinase [Source:HGNC Symbol;Acc:HGNC:12761]	559	-0.96	0.0805	-12.0	6.1E-33	7.4E-32
ENSG00000144857	BOC	BOC cell adhesion associated, oncogene regulated [Source:HGNC Symbol;Acc:HGNC:17173]	217	-1.63	0.1362	-12.0	6.1E-33	7.5E-32
ENSG00000124249	KCNK15	potassium two pore domain channel subfamily K member 15 [Source:HGNC Symbol;Acc:HGNC:13814]	220	-1.65	0.1380	-12.0	6.2E-33	7.6E-32
ENSG00000140931	CMTM3	CKLF like MARVEL transmembrane domain containing 3 [Source:HGNC Symbol;Acc:HGNC:19174]	866	-0.80	0.0671	-11.9	7.0E-33	8.6E-32
ENSG00000153944	MSI2	musashi RNA binding protein 2 [Source:HGNC Symbol;Acc:HGNC:18585]	1194	-0.73	0.0608	-11.9	8.2E-33	1.0E-31
ENSG00000159388	BTG2	BTG anti-proliferation factor 2 [Source:HGNC Symbol;Acc:HGNC:1131]	218	-1.58	0.1322	-11.9	8.4E-33	1.0E-31
ENSG00000132182	NUP210	nucleoporin 210 [Source:HGNC Symbol;Acc:HGNC:30052]	2766	-0.52	0.0433	-11.9	9.8E-33	1.2E-31
ENSG00000113430	IRX4	iroquois homeobox 4 [Source:HGNC Symbol;Acc:HGNC:6129]	87	-3.29	0.2760	-11.9	1.0E-32	1.3E-31
ENSG00000130517	PGPEP1	pyroglutamyl-peptidase I [Source:HGNC Symbol;Acc:HGNC:13568]	275	-1.37	0.1153	-11.9	1.1E-32	1.3E-31
ENSG00000172020	GAP43	growth associated protein 43 [Source:HGNC Symbol;Acc:HGNC:4140]	191	-2.10	0.1762	-11.9	1.1E-32	1.3E-31
ENSG00000133789	SWAP70	switching B cell complex subunit SWAP70 [Source:HGNC Symbol;Acc:HGNC:17070]	913	-0.77	0.0647	-11.9	1.1E-32	1.4E-31
ENSG00000130699	TAF4	TATA-box binding protein associated factor 4 [Source:HGNC Symbol;Acc:HGNC:11537]	914	-0.81	0.0683	-11.9	1.5E-32	1.8E-31
ENSG00000154122	ANKH	ANKH inorganic pyrophosphate transport regulator [Source:HGNC Symbol;Acc:HGNC:15492]	1537	-0.61	0.0510	-11.9	1.8E-32	2.2E-31
ENSG00000188613	NANOS1	nanos C2HC-type zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:23044]	224	-1.67	0.1410	-11.9	1.9E-32	2.2E-31
ENSG00000126882	FAM78A	family with sequence similarity 78 member A [Source:HGNC Symbol;Acc:HGNC:25465]	260	-1.49	0.1257	-11.9	2.0E-32	2.4E-31
ENSG00000149970	CNKS2	connector enhancer of kinase suppressor of Ras 2 [Source:HGNC Symbol;Acc:HGNC:19701]	152	-1.95	0.1645	-11.9	2.0E-32	2.5E-31
ENSG00000198478	SH3BGR2	SH3 domain binding glutamate rich protein like 2 [Source:HGNC Symbol;Acc:HGNC:15567]	121	-2.35	0.1988	-11.8	2.8E-32	3.3E-31
ENSG00000156218	ADAMTSL3	ADAMTS like 3 [Source:HGNC Symbol;Acc:HGNC:14633]	256	-1.45	0.1228	-11.8	3.3E-32	4.0E-31
ENSG00000197641	SERPINB13	serpin family B member 13 [Source:HGNC Symbol;Acc:HGNC:8944]	262	-8.57	0.7280	-11.8	5.3E-32	6.4E-31
ENSG00000164920	OSR2	odd-skipped related transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:15830]	1298	-0.66	0.0562	-11.8	6.9E-32	8.2E-31

ENSG00000095585	BLNK	B cell linker [Source:HGNC Symbol;Acc:HGNC:14211]	84	-3.22	0.2740	-11.7	7.1E-32	8.4E-31
ENSG00000156463	SH3RF2	SH3 domain containing ring finger 2 [Source:HGNC Symbol;Acc:HGNC:26299]	1279	-0.69	0.0592	-11.7	9.6E-32	1.1E-30
ENSG00000166396	SERPINB7	serpin family B member 7 [Source:HGNC Symbol;Acc:HGNC:13902]	2057	-0.54	0.0463	-11.7	1.0E-31	1.2E-30
ENSG00000102554	KLF5	Kruppel like factor 5 [Source:HGNC Symbol;Acc:HGNC:6349]	2168	-0.56	0.0479	-11.7	1.1E-31	1.3E-30
ENSG00000158106	RHPN1	rhophilin Rho GTPase binding protein 1 [Source:HGNC Symbol;Acc:HGNC:19973]	414	-1.13	0.0963	-11.7	1.2E-31	1.4E-30
ENSG00000052795	FNIP2	folliculin interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:29280]	554	-0.97	0.0835	-11.7	1.6E-31	1.9E-30
ENSG00000147526	TACC1	transforming acidic coiled-coil containing protein 1 [Source:HGNC Symbol;Acc:HGNC:11522]	1037	-0.76	0.0648	-11.7	2.0E-31	2.4E-30
ENSG00000118418	HMGN3	high mobility group nucleosomal binding domain 3 [Source:HGNC Symbol;Acc:HGNC:12312]	964	-0.74	0.0634	-11.6	2.8E-31	3.3E-30
ENSG00000172716	SLFN11	schlafen family member 11 [Source:HGNC Symbol;Acc:HGNC:26633]	211	-4.47	0.3847	-11.6	3.0E-31	3.5E-30
ENSG00000116117	PAR3B	par-3 family cell polarity regulator beta [Source:HGNC Symbol;Acc:HGNC:14446]	186	-1.77	0.1520	-11.6	3.2E-31	3.7E-30
ENSG00000236972	FABP5P1	fatty acid binding protein 5 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:31059]	147	-2.13	0.1833	-11.6	3.7E-31	4.3E-30
ENSG00000129195	PIMREG	PICALM interacting mitotic regulator [Source:HGNC Symbol;Acc:HGNC:25483]	1830	-0.63	0.0547	-11.6	4.2E-31	4.9E-30
ENSG00000116977	LGALS8	galectin 8 [Source:HGNC Symbol;Acc:HGNC:6569]	762	-0.84	0.0728	-11.6	4.5E-31	5.2E-30
ENSG00000170396	ZNF804A	zinc finger protein 804A [Source:HGNC Symbol;Acc:HGNC:21711]	101	-6.18	0.5337	-11.6	4.8E-31	5.6E-30
ENSG00000114529	C3orf52	chromosome 3 open reading frame 52 [Source:HGNC Symbol;Acc:HGNC:26255]	151	-1.95	0.1687	-11.6	4.9E-31	5.7E-30
ENSG00000188620	HMX3	H6 family homeobox 3 [Source:HGNC Symbol;Acc:HGNC:5019]	106	-2.53	0.2181	-11.6	5.2E-31	6.0E-30
ENSG00000263465	SRSF8	serine and arginine rich splicing factor 8 [Source:HGNC Symbol;Acc:HGNC:16988]	1013	-0.70	0.0606	-11.6	6.7E-31	7.8E-30
ENSG00000143499	SMYD2	SET and MYND domain containing 2 [Source:HGNC Symbol;Acc:HGNC:20982]	2451	-0.52	0.0446	-11.6	6.9E-31	8.0E-30
ENSG00000182568	SATB1	SATB homeobox 1 [Source:HGNC Symbol;Acc:HGNC:10541]	71	-4.02	0.3475	-11.6	7.0E-31	8.1E-30
ENSG00000136160	EDNRB	endothelin receptor type B [Source:HGNC Symbol;Acc:HGNC:3180]	94	-2.63	0.2277	-11.6	7.2E-31	8.3E-30
ENSG00000154277	UCHL1	ubiquitin C-terminal hydrolase L1 [Source:HGNC Symbol;Acc:HGNC:12513]	228	-1.69	0.1462	-11.5	7.6E-31	8.8E-30
ENSG00000155755	TMEM237	transmembrane protein 237 [Source:HGNC Symbol;Acc:HGNC:14432]	1260	-0.65	0.0559	-11.5	7.7E-31	8.9E-30
ENSG00000272894	MIOS-DT	MIOS divergent transcript [Source:HGNC Symbol;Acc:HGNC:55187]	263	-1.43	0.1239	-11.5	8.1E-31	9.4E-30
ENSG00000089094	KDM2B	lysine demethylase 2B [Source:HGNC Symbol;Acc:HGNC:13610]	804	-0.80	0.0690	-11.5	8.3E-31	9.6E-30
ENSG00000177822	TENM3-AS1	TENM3 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:28076]	166	-1.82	0.1577	-11.5	8.4E-31	9.7E-30
ENSG00000244462	RBM12	RNA binding motif protein 12 [Source:HGNC Symbol;Acc:HGNC:9898]	2490	-0.50	0.0434	-11.5	9.3E-31	1.1E-29
ENSG00000133106	EPST11	epithelial stromal interaction 1 [Source:HGNC Symbol;Acc:HGNC:16465]	685	-0.86	0.0746	-11.5	1.1E-30	1.2E-29
ENSG00000203499	IQANK1	IQ motif and ankyrin repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:49576]	275	-1.39	0.1207	-11.5	1.2E-30	1.4E-29
ENSG00000145916	RMND5B	required for meiotic nuclear division 5 homolog B [Source:HGNC Symbol;Acc:HGNC:26181]	1386	-0.62	0.0537	-11.5	1.2E-30	1.4E-29
ENSG00000033327	GAB2	GRB2 associated binding protein 2 [Source:HGNC Symbol;Acc:HGNC:14458]	175	-1.87	0.1626	-11.5	1.3E-30	1.5E-29
ENSG00000169169	CPT1C	carnitine palmitoyltransferase 1C [Source:HGNC Symbol;Acc:HGNC:18540]	153	-1.89	0.1644	-11.5	1.5E-30	1.7E-29
ENSG00000149131	SERPING1	serpin family G member 1 [Source:HGNC Symbol;Acc:HGNC:1228]	82	-3.03	0.2639	-11.5	1.6E-30	1.9E-29
ENSG00000167552	TUBA1A	tubulin alpha 1a [Source:HGNC Symbol;Acc:HGNC:20766]	1170	-0.69	0.0599	-11.5	1.7E-30	1.9E-29
ENSG00000144843	ADPRH	ADP-ribosylarginine hydrolase [Source:HGNC Symbol;Acc:HGNC:269]	352	-1.21	0.1054	-11.5	1.8E-30	2.1E-29
ENSG00000171206	TRIM8	tripartite motif containing 8 [Source:HGNC Symbol;Acc:HGNC:15579]	1381	-0.66	0.0573	-11.5	1.8E-30	2.1E-29
ENSG00000029725	RABEP1	rabaptin, RAB GTPase binding effector protein 1 [Source:HGNC Symbol;Acc:HGNC:17677]	1394	-0.66	0.0578	-11.5	1.9E-30	2.1E-29
ENSG00000228526	MIR34AHG	MIR34A host gene [Source:HGNC Symbol;Acc:HGNC:51913]	189	-1.71	0.1489	-11.5	1.9E-30	2.1E-29
ENSG00000075651	PLD1	phospholipase D1 [Source:HGNC Symbol;Acc:HGNC:9067]	686	-0.88	0.0764	-11.5	1.9E-30	2.1E-29
ENSG00000079432	CIC	capicua transcriptional repressor [Source:HGNC Symbol;Acc:HGNC:14214]	2733	-0.50	0.0438	-11.5	1.9E-30	2.2E-29
ENSG00000029993	HMGB3	high mobility group box 3 [Source:HGNC Symbol;Acc:HGNC:5004]	2114	-0.54	0.0472	-11.5	2.0E-30	2.2E-29
ENSG00000171766	GATM	glycine amidinotransferase [Source:HGNC Symbol;Acc:HGNC:4175]	203	-1.59	0.1389	-11.4	2.7E-30	3.1E-29
ENSG00000065989	PDE4A	phosphodiesterase 4A [Source:HGNC Symbol;Acc:HGNC:8780]	172	-1.74	0.1520	-11.4	3.1E-30	3.5E-29

ENSG00000170006	TMEM154	transmembrane protein 154 [Source:HGNC Symbol;Acc:HGNC:26489]	242	-1.44	0.1264	-11.4	3.8E-30	4.3E-29
ENSG00000175920	DOK7	docking protein 7 [Source:HGNC Symbol;Acc:HGNC:26594]	222	-1.66	0.1457	-11.4	4.2E-30	4.8E-29
ENSG00000130762	ARHGEF16	Rho guanine nucleotide exchange factor 16 [Source:HGNC Symbol;Acc:HGNC:15515]	953	-0.74	0.0647	-11.4	4.3E-30	4.9E-29
ENSG00000145911	N4BP3	NEDD4 binding protein 3 [Source:HGNC Symbol;Acc:HGNC:29852]	660	-0.84	0.0735	-11.4	4.4E-30	5.0E-29
ENSG00000134709	HOOK1	hook microtubule tethering protein 1 [Source:HGNC Symbol;Acc:HGNC:19884]	550	-0.93	0.0821	-11.4	4.8E-30	5.4E-29
ENSG00000043039	BARX2	BARX homeobox 2 [Source:HGNC Symbol;Acc:HGNC:956]	348	-1.21	0.1067	-11.4	5.7E-30	6.4E-29
ENSG00000138670	RASGEF1B	RasGEF domain family member 1B [Source:HGNC Symbol;Acc:HGNC:24881]	69	-4.41	0.3884	-11.4	6.9E-30	7.8E-29
ENSG00000117280	RAB29	RAB29, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9789]	316	-1.39	0.1224	-11.4	7.4E-30	8.3E-29
ENSG00000166272	WBP1L	VW domain binding protein 1 like [Source:HGNC Symbol;Acc:HGNC:23510]	1446	-0.60	0.0528	-11.3	9.0E-30	1.0E-28
ENSG00000140044	JDP2	Jun dimerization protein 2 [Source:HGNC Symbol;Acc:HGNC:17546]	987	-0.76	0.0669	-11.3	1.0E-29	1.1E-28
ENSG00000127328	RAB3IP	RAB3A interacting protein [Source:HGNC Symbol;Acc:HGNC:16508]	480	-1.00	0.0886	-11.3	1.1E-29	1.2E-28
ENSG00000172005	MAL	mal, T cell differentiation protein [Source:HGNC Symbol;Acc:HGNC:6817]	77	-3.21	0.2838	-11.3	1.2E-29	1.3E-28
ENSG00000073910	FRY	FRY microtubule binding protein [Source:HGNC Symbol;Acc:HGNC:20367]	71	-3.76	0.3332	-11.3	1.8E-29	2.0E-28
ENSG00000165168	CYBB	cytochrome b-245 beta chain [Source:HGNC Symbol;Acc:HGNC:2578]	120	-2.24	0.1988	-11.3	2.0E-29	2.2E-28
ENSG00000062282	DGAT2	diacylglycerol O-acyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:16940]	141	-2.01	0.1785	-11.3	2.2E-29	2.5E-28
ENSG00000141429	GALNT1	polypeptide N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4123]	1643	-0.59	0.0523	-11.3	2.3E-29	2.5E-28
ENSG00000124104	SNX21	sorting nexin family member 21 [Source:HGNC Symbol;Acc:HGNC:16154]	657	-0.97	0.0862	-11.2	2.7E-29	3.0E-28
ENSG00000183049	CAMK1D	calcium/calmodulin dependent protein kinase ID [Source:HGNC Symbol;Acc:HGNC:19341]	402	-1.12	0.1000	-11.2	3.0E-29	3.3E-28
ENSG00000186665	C17orf58	chromosome 17 open reading frame 58 [Source:HGNC Symbol;Acc:HGNC:27568]	311	-1.29	0.1150	-11.2	3.4E-29	3.8E-28
ENSG00000253719	ATXN7L3B	ataxin 7 like 3B [Source:HGNC Symbol;Acc:HGNC:37931]	1636	-0.58	0.0513	-11.2	3.5E-29	3.9E-28
ENSG00000109846	CRYAB	crystallin alpha B [Source:HGNC Symbol;Acc:HGNC:2389]	173	-1.83	0.1632	-11.2	3.5E-29	3.9E-28
ENSG00000104892	KLC3	kinesin light chain 3 [Source:HGNC Symbol;Acc:HGNC:20717]	563	-0.99	0.0880	-11.2	3.8E-29	4.2E-28
ENSG00000100028	SNRPD3	small nuclear ribonucleoprotein D3 polypeptide [Source:HGNC Symbol;Acc:HGNC:11160]	781	-0.78	0.0694	-11.2	4.0E-29	4.5E-28
ENSG00000179151	EDC3	enhancer of mRNA decapping 3 [Source:HGNC Symbol;Acc:HGNC:26114]	1254	-0.64	0.0569	-11.2	4.3E-29	4.8E-28
ENSG00000157456	CCNB2	cyclin B2 [Source:HGNC Symbol;Acc:HGNC:1580]	1639	-0.55	0.0496	-11.2	4.4E-29	4.8E-28
ENSG00000155465	SLC7A7	solute carrier family 7 member 7 [Source:HGNC Symbol;Acc:HGNC:11065]	113	-2.27	0.2031	-11.2	4.7E-29	5.2E-28
ENSG00000162458	FBLIM1	filamin binding LIM protein 1 [Source:HGNC Symbol;Acc:HGNC:24686]	1864	-0.55	0.0496	-11.2	4.8E-29	5.3E-28
ENSG00000170214	ADRA1B	adrenoceptor alpha 1B [Source:HGNC Symbol;Acc:HGNC:278]	387	-1.08	0.0966	-11.2	6.1E-29	6.7E-28
ENSG00000263711	LINC02864	long intergenic non-protein coding RNA 2864 [Source:HGNC Symbol;Acc:HGNC:54480]	180	-5.06	0.4538	-11.1	7.9E-29	8.6E-28
ENSG00000134627	PIWIL4	piwi like RNA-mediated gene silencing 4 [Source:HGNC Symbol;Acc:HGNC:18444]	67	-3.75	0.3369	-11.1	9.4E-29	1.0E-27
ENSG00000157064	NMNAT2	nicotinamide nucleotide adenyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:16789]	146	-1.87	0.1681	-11.1	9.5E-29	1.0E-27
ENSG00000131069	ACSS2	acyl-CoA synthetase short chain family member 2 [Source:HGNC Symbol;Acc:HGNC:15814]	1788	-0.56	0.0503	-11.1	9.7E-29	1.1E-27
ENSG00000110811	P3H3	prolyl 3-hydroxylase 3 [Source:HGNC Symbol;Acc:HGNC:19318]	151	-1.85	0.1666	-11.1	1.0E-28	1.1E-27
ENSG00000164603	BMT2	base methyltransferase of 25S rRNA 2 homolog [Source:HGNC Symbol;Acc:HGNC:26475]	336	-1.16	0.1040	-11.1	1.1E-28	1.2E-27
ENSG00000204308	RNF5	ring finger protein 5 [Source:HGNC Symbol;Acc:HGNC:10068]	1502	-0.67	0.0604	-11.1	1.1E-28	1.2E-27
ENSG00000175893	ZDHHC21	zinc finger DHHC-type palmitoyltransferase 21 [Source:HGNC Symbol;Acc:HGNC:20750]	593	-0.86	0.0779	-11.1	1.1E-28	1.2E-27
ENSG00000092295	TGM1	transglutaminase 1 [Source:HGNC Symbol;Acc:HGNC:11777]	300	-1.25	0.1128	-11.1	1.5E-28	1.6E-27
ENSG00000143355	LHX9	LIM homeobox 9 [Source:HGNC Symbol;Acc:HGNC:14222]	76	-2.98	0.2694	-11.1	1.6E-28	1.8E-27
ENSG00000198646	NCOA6	nuclear receptor coactivator 6 [Source:HGNC Symbol;Acc:HGNC:15936]	1896	-0.54	0.0486	-11.1	1.7E-28	1.8E-27
ENSG00000185290	NUPR2	nuclear protein 2, transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:44164]	64	-4.21	0.3811	-11.1	2.0E-28	2.1E-27
ENSG00000128805	ARHGAP22	Rho GTPase activating protein 22 [Source:HGNC Symbol;Acc:HGNC:30320]	66	-4.12	0.3724	-11.1	2.1E-28	2.3E-27
ENSG00000068078	FGFR3	fibroblast growth factor receptor 3 [Source:HGNC Symbol;Acc:HGNC:3690]	377	-1.19	0.1079	-11.0	2.3E-28	2.4E-27

ENSG00000163820	FYCO1	FYVE and coiled-coil domain autophagy adaptor 1 [Source:HGNC Symbol;Acc:HGNC:14673]	503	-1.01	0.0919	-11.0	2.3E-28	2.4E-27
ENSG00000120008	WDR11	WD repeat domain 11 [Source:HGNC Symbol;Acc:HGNC:13831]	1915	-0.51	0.0466	-11.0	2.3E-28	2.5E-27
ENSG00000141425	RPRD1A	regulation of nuclear pre-mRNA domain containing 1A [Source:HGNC Symbol;Acc:HGNC:25560]	1117	-0.66	0.0596	-11.0	2.3E-28	2.5E-27
ENSG00000163517	HDAC11	histone deacetylase 11 [Source:HGNC Symbol;Acc:HGNC:19086]	451	-1.01	0.0914	-11.0	2.3E-28	2.5E-27
ENSG00000198105	ZNF248	zinc finger protein 248 [Source:HGNC Symbol;Acc:HGNC:13041]	375	-1.13	0.1023	-11.0	2.5E-28	2.7E-27
ENSG00000226742	HSBP1L1	heat shock factor binding protein 1 like 1 [Source:HGNC Symbol;Acc:HGNC:37243]	487	-1.00	0.0906	-11.0	3.3E-28	3.6E-27
ENSG00000188690	UROS	uroporphyrinogen III synthase [Source:HGNC Symbol;Acc:HGNC:12592]	1822	-0.53	0.0481	-11.0	3.4E-28	3.6E-27
ENSG00000196072	BLOC1S2	biogenesis of lysosomal organelles complex 1 subunit 2 [Source:HGNC Symbol;Acc:HGNC:20984]	1036	-0.68	0.0622	-11.0	3.7E-28	4.0E-27
ENSG00000183020	AP2A2	adaptor related protein complex 2 subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:562]	796	-0.75	0.0686	-11.0	4.6E-28	4.9E-27
ENSG00000118193	KIF14	kinesin family member 14 [Source:HGNC Symbol;Acc:HGNC:19181]	951	-0.71	0.0644	-11.0	4.9E-28	5.2E-27
ENSG00000033800	PIAS1	protein inhibitor of activated STAT 1 [Source:HGNC Symbol;Acc:HGNC:2752]	930	-0.72	0.0653	-11.0	5.7E-28	6.0E-27
ENSG00000136828	RALGSP1	Ral GEF with PH domain and SH3 binding motif 1 [Source:HGNC Symbol;Acc:HGNC:16851]	135	-2.06	0.1877	-11.0	6.1E-28	6.5E-27
ENSG00000163083	INHBB	inhibin subunit beta B [Source:HGNC Symbol;Acc:HGNC:6067]	117	-2.20	0.2006	-10.9	6.7E-28	7.1E-27
ENSG00000184564	SLITRK6	SLIT and NTRK like family member 6 [Source:HGNC Symbol;Acc:HGNC:23503]	249	-1.40	0.1280	-10.9	6.7E-28	7.1E-27
ENSG00000196371	FUT4	fucosyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:4015]	208	-1.53	0.1397	-10.9	7.6E-28	8.0E-27
ENSG00000095015	MAP3K1	mitogen-activated protein kinase kinase kinase 1 [Source:HGNC Symbol;Acc:HGNC:6848]	557	-0.88	0.0809	-10.9	7.7E-28	8.1E-27
ENSG00000078804	TP53INP2	tumor protein p53 inducible nuclear protein 2 [Source:HGNC Symbol;Acc:HGNC:16104]	689	-0.82	0.0748	-10.9	7.8E-28	8.3E-27
ENSG00000136108	CKAP2	cytoskeleton associated protein 2 [Source:HGNC Symbol;Acc:HGNC:1990]	1287	-0.61	0.0554	-10.9	8.0E-28	8.5E-27
ENSG00000141068	KSR1	kinase suppressor of ras 1 [Source:HGNC Symbol;Acc:HGNC:6465]	500	-0.97	0.0884	-10.9	8.6E-28	9.1E-27
ENSG00000172331	BPGM	bisphosphoglycerate mutase [Source:HGNC Symbol;Acc:HGNC:1093]	367	-1.11	0.1023	-10.9	1.3E-27	1.4E-26
ENSG00000088854	C20orf194	chromosome 20 open reading frame 194 [Source:HGNC Symbol;Acc:HGNC:17721]	589	-0.85	0.0780	-10.8	2.3E-27	2.4E-26
ENSG00000169836	TACR3	tachykinin receptor 3 [Source:HGNC Symbol;Acc:HGNC:11528]	100	-6.59	0.6089	-10.8	2.9E-27	3.0E-26
ENSG00000180730	SHISA2	shisa family member 2 [Source:HGNC Symbol;Acc:HGNC:20366]	91	-2.55	0.2364	-10.8	3.1E-27	3.2E-26
ENSG00000146373	RNF217	ring finger protein 217 [Source:HGNC Symbol;Acc:HGNC:21487]	891	-0.75	0.0699	-10.8	4.2E-27	4.4E-26
ENSG00000070190	DAPP1	dual adaptor of phosphotyrosine and 3-phosphoinositides 1 [Source:HGNC Symbol;Acc:HGNC:16500]	896	-0.69	0.0644	-10.8	4.9E-27	5.1E-26
ENSG00000189319	FAM53B	family with sequence similarity 53 member B [Source:HGNC Symbol;Acc:HGNC:28968]	878	-0.73	0.0678	-10.8	5.1E-27	5.3E-26
ENSG00000175895	PLEKHF2	pleckstrin homology and FYVE domain containing 2 [Source:HGNC Symbol;Acc:HGNC:20757]	784	-0.76	0.0703	-10.8	5.4E-27	5.6E-26
ENSG00000056291	NPFFR2	neuropeptide FF receptor 2 [Source:HGNC Symbol;Acc:HGNC:4525]	78	-5.79	0.5389	-10.8	5.8E-27	6.0E-26
ENSG00000167183	PRR15L	proline rich 15 like [Source:HGNC Symbol;Acc:HGNC:28149]	64	-3.43	0.3193	-10.7	6.0E-27	6.2E-26
ENSG00000104140	RHOV	ras homolog family member V [Source:HGNC Symbol;Acc:HGNC:18313]	1755	-0.55	0.0515	-10.7	6.4E-27	6.6E-26
ENSG00000163171	CDC42EP3	CDC42 effector protein 3 [Source:HGNC Symbol;Acc:HGNC:16943]	1968	-0.50	0.0469	-10.7	8.3E-27	8.5E-26
ENSG00000213341	CHUK	component of inhibitor of nuclear factor kappa B kinase complex [Source:HGNC Symbol;Acc:HGNC:1974]	1262	-0.59	0.0551	-10.7	9.4E-27	9.6E-26
ENSG00000149582	TMEM25	transmembrane protein 25 [Source:HGNC Symbol;Acc:HGNC:25890]	383	-1.06	0.0987	-10.7	1.0E-26	1.0E-25
ENSG00000120675	DNAJC15	DnaJ heat shock protein family (Hsp40) member C15 [Source:HGNC Symbol;Acc:HGNC:20325]	841	-0.73	0.0682	-10.7	1.6E-26	1.6E-25
ENSG00000198924	DCLRE1A	DNA cross-link repair 1A [Source:HGNC Symbol;Acc:HGNC:17660]	760	-0.81	0.0757	-10.6	1.8E-26	1.8E-25
ENSG00000116251	RPL22	ribosomal protein L22 [Source:HGNC Symbol;Acc:HGNC:10315]	1814	-0.53	0.0494	-10.6	1.8E-26	1.8E-25
ENSG00000100647	SUSD6	sushi domain containing 6 [Source:HGNC Symbol;Acc:HGNC:19956]	723	-0.80	0.0749	-10.6	2.1E-26	2.1E-25
ENSG00000143341	HMCN1	hemicentin 1 [Source:HGNC Symbol;Acc:HGNC:19194]	60	-4.37	0.4115	-10.6	2.6E-26	2.6E-25
ENSG00000152192	POU4F1	POU class 4 homeobox 1 [Source:HGNC Symbol;Acc:HGNC:9218]	65	-3.28	0.3096	-10.6	2.9E-26	2.9E-25
ENSG00000088356	PDRG1	p53 and DNA damage regulated 1 [Source:HGNC Symbol;Acc:HGNC:16119]	1597	-0.56	0.0531	-10.6	2.9E-26	2.9E-25
ENSG00000241839	PLEKHO2	pleckstrin homology domain containing O2 [Source:HGNC Symbol;Acc:HGNC:30026]	188	-1.60	0.1506	-10.6	3.0E-26	3.1E-25
ENSG00000111052	LIN7A	lin-7 homolog A, crumbs cell polarity complex component [Source:HGNC Symbol;Acc:HGNC:17787]	60	-4.19	0.3960	-10.6	3.4E-26	3.4E-25

ENSG00000196872	CRACDL	CRACD like [Source:HGNC Symbol;Acc:HGNC:33454]	188	-1.52	0.1434	-10.6	3.5E-26	3.5E-25
ENSG00000172382	PRSS27	serine protease 27 [Source:HGNC Symbol;Acc:HGNC:15475]	258	-1.25	0.1183	-10.6	3.5E-26	3.5E-25
ENSG00000132561	MATN2	matrilin 2 [Source:HGNC Symbol;Acc:HGNC:6908]	1975	-0.50	0.0474	-10.6	3.9E-26	3.9E-25
ENSG00000154153	RETREG1	reticulophagy regulator 1 [Source:HGNC Symbol;Acc:HGNC:25964]	665	-0.77	0.0731	-10.6	4.3E-26	4.3E-25
ENSG00000087128	TMPRSS11E	transmembrane serine protease 11E [Source:HGNC Symbol;Acc:HGNC:24465]	309	-1.21	0.1144	-10.6	4.5E-26	4.6E-25
ENSG00000185909	KLHDC8B	kelch domain containing 8B [Source:HGNC Symbol;Acc:HGNC:28557]	406	-0.99	0.0937	-10.6	4.9E-26	5.0E-25
ENSG00000197296	FITM2	fat storage inducing transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:16135]	1527	-0.54	0.0511	-10.6	5.0E-26	5.1E-25
ENSG00000149679	CABLES2	Cdk5 and Abl enzyme substrate 2 [Source:HGNC Symbol;Acc:HGNC:16143]	698	-0.80	0.0763	-10.5	5.7E-26	5.7E-25
ENSG00000174282	ZBTB4	zinc finger and BTB domain containing 4 [Source:HGNC Symbol;Acc:HGNC:23847]	403	-1.11	0.1050	-10.5	6.2E-26	6.2E-25
ENSG00000140563	MCTP2	multiple C2 and transmembrane domain containing 2 [Source:HGNC Symbol;Acc:HGNC:25636]	182	-1.55	0.1472	-10.5	6.4E-26	6.4E-25
ENSG00000134313	KIDINS220	kinase D interacting substrate 220 [Source:HGNC Symbol;Acc:HGNC:29508]	1646	-0.54	0.0509	-10.5	6.6E-26	6.6E-25
ENSG00000114631	PODXL2	podocalyxin like 2 [Source:HGNC Symbol;Acc:HGNC:17936]	312	-1.16	0.1106	-10.5	7.2E-26	7.1E-25
ENSG00000174775	HRAS	HRas proto-oncogene, GTPase [Source:HGNC Symbol;Acc:HGNC:5173]	1205	-0.60	0.0571	-10.5	7.2E-26	7.2E-25
ENSG00000169554	ZEB2	zinc finger E-box binding homeobox 2 [Source:HGNC Symbol;Acc:HGNC:14881]	72	-3.04	0.2889	-10.5	7.8E-26	7.8E-25
ENSG00000170801	HTRA3	HtrA serine peptidase 3 [Source:HGNC Symbol;Acc:HGNC:30406]	70	-2.91	0.2774	-10.5	8.0E-26	8.0E-25
ENSG00000104870	FCGRT	Fc fragment of IgG receptor and transporter [Source:HGNC Symbol;Acc:HGNC:3621]	528	-0.94	0.0892	-10.5	8.1E-26	8.1E-25
ENSG00000151320	AKAP6	A-kinase anchoring protein 6 [Source:HGNC Symbol;Acc:HGNC:376]	112	-2.06	0.1960	-10.5	9.4E-26	9.4E-25
ENSG00000163638	ADAMTS9	ADAM metallopeptidase with thrombospondin type 1 motif 9 [Source:HGNC Symbol;Acc:HGNC:13202]	1191	-0.64	0.0613	-10.5	1.0E-25	1.0E-24
ENSG00000165152	PGAP4	post-GPI attachment to proteins GalNAc transferase 4 [Source:HGNC Symbol;Acc:HGNC:28180]	823	-0.72	0.0686	-10.5	1.3E-25	1.3E-24
ENSG00000169905	TOR1AIP2	torsin 1A interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:24055]	1324	-0.56	0.0532	-10.5	1.5E-25	1.4E-24
ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	568	-0.92	0.0879	-10.4	1.5E-25	1.5E-24
ENSG00000110723	EXPH5	exophilin 5 [Source:HGNC Symbol;Acc:HGNC:30578]	250	-1.30	0.1245	-10.4	1.8E-25	1.8E-24
ENSG00000173269	MMRN2	multimerin 2 [Source:HGNC Symbol;Acc:HGNC:19888]	142	-1.75	0.1682	-10.4	1.9E-25	1.8E-24
ENSG00000073282	TP63	tumor protein p63 [Source:HGNC Symbol;Acc:HGNC:15979]	64	-3.38	0.3253	-10.4	2.6E-25	2.5E-24
ENSG00000157388	CACNA1D	calcium voltage-gated channel subunit alpha1 D [Source:HGNC Symbol;Acc:HGNC:1391]	321	-1.12	0.1073	-10.4	2.8E-25	2.8E-24
ENSG00000214022	REPIN1	replication initiator 1 [Source:HGNC Symbol;Acc:HGNC:17922]	1928	-0.53	0.0514	-10.4	3.2E-25	3.2E-24
ENSG00000116741	RGS2	regulator of G protein signaling 2 [Source:HGNC Symbol;Acc:HGNC:9998]	190	-1.50	0.1450	-10.4	3.5E-25	3.4E-24
ENSG00000117593	DARS2	aspartyl-tRNA synthetase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:25538]	1004	-0.65	0.0623	-10.4	3.8E-25	3.7E-24
ENSG00000100290	BIK	BCL2 interacting killer [Source:HGNC Symbol;Acc:HGNC:1051]	130	-1.88	0.1817	-10.4	3.9E-25	3.8E-24
ENSG00000165178	NCF1C	neutrophil cytosolic factor 1C pseudogene [Source:HGNC Symbol;Acc:HGNC:32523]	99	-2.60	0.2506	-10.4	4.0E-25	3.9E-24
ENSG00000074370	ATP2A3	ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 3 [Source:HGNC Symbol;Acc:HGNC:813]	103	-2.14	0.2063	-10.4	4.2E-25	4.1E-24
ENSG00000115604	IL18R1	interleukin 18 receptor 1 [Source:HGNC Symbol;Acc:HGNC:5988]	60	-3.49	0.3374	-10.3	4.3E-25	4.2E-24
ENSG00000130158	DOCK6	dedicator of cytokinesis 6 [Source:HGNC Symbol;Acc:HGNC:19189]	655	-0.77	0.0744	-10.3	5.0E-25	4.8E-24
ENSG00000159450	TCHH	trichohyalin [Source:HGNC Symbol;Acc:HGNC:11791]	298	-1.18	0.1139	-10.3	5.0E-25	4.9E-24
ENSG00000234964	FABP5P7	fatty acid binding protein 5 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:31070]	111	-2.07	0.2011	-10.3	6.2E-25	6.1E-24
ENSG00000136379	ABHD17C	abhydrolase domain containing 17C, depalmitoylase [Source:HGNC Symbol;Acc:HGNC:26925]	406	-0.97	0.0943	-10.3	6.8E-25	6.6E-24
ENSG00000133131	MORC4	MORC family CW-type zinc finger 4 [Source:HGNC Symbol;Acc:HGNC:23485]	486	-0.89	0.0868	-10.3	7.2E-25	6.9E-24
ENSG00000183779	ZNF703	zinc finger protein 703 [Source:HGNC Symbol;Acc:HGNC:25883]	195	-1.47	0.1424	-10.3	7.2E-25	7.0E-24
ENSG00000150540	HNMT	histamine N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:5028]	57	-4.52	0.4394	-10.3	7.3E-25	7.1E-24
ENSG00000177694	NAALADL2	N-acetylated alpha-linked acidic dipeptidase like 2 [Source:HGNC Symbol;Acc:HGNC:23219]	84	-2.41	0.2337	-10.3	7.5E-25	7.2E-24
ENSG00000177335	C8orf31	chromosome 8 open reading frame 31 [Source:HGNC Symbol;Acc:HGNC:26731]	94	-2.31	0.2249	-10.3	8.4E-25	8.1E-24
ENSG00000109436	TBC1D9	TBC1 domain family member 9 [Source:HGNC Symbol;Acc:HGNC:21710]	1028	-0.62	0.0607	-10.3	8.9E-25	8.6E-24

ENSG00000050165	DKK3	dickkopf WNT signaling pathway inhibitor 3 [Source:HGNC Symbol;Acc:HGNC:2893]	234	-1.35	0.1314	-10.3	9.4E-25	9.1E-24
ENSG00000066926	FECH	ferrochelatase [Source:HGNC Symbol;Acc:HGNC:3647]	1026	-0.63	0.0611	-10.3	1.1E-24	1.0E-23
ENSG00000140474	ULK3	unc-51 like kinase 3 [Source:HGNC Symbol;Acc:HGNC:19703]	1091	-0.60	0.0581	-10.2	1.3E-24	1.2E-23
ENSG00000134765	DSC1	desmocollin 1 [Source:HGNC Symbol;Acc:HGNC:3035]	57	-3.56	0.3479	-10.2	1.4E-24	1.4E-23
ENSG00000159403	C1R	complement C1r [Source:HGNC Symbol;Acc:HGNC:1246]	86	-2.35	0.2295	-10.2	1.6E-24	1.5E-23
ENSG00000117036	ETV3	ETS variant transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:3492]	1255	-0.62	0.0610	-10.2	1.8E-24	1.7E-23
ENSG00000079459	FDFT1	farnesyl-diphosphate farnesyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:3629]	1827	-0.53	0.0521	-10.2	1.9E-24	1.8E-23
ENSG00000065833	ME1	malic enzyme 1 [Source:HGNC Symbol;Acc:HGNC:6983]	624	-0.79	0.0772	-10.2	1.9E-24	1.8E-23
ENSG00000077274	CAPN6	calpain 6 [Source:HGNC Symbol;Acc:HGNC:1483]	66	-5.55	0.5445	-10.2	2.0E-24	1.9E-23
ENSG00000123094	RASSF8	Ras association domain family member 8 [Source:HGNC Symbol;Acc:HGNC:13232]	1213	-0.62	0.0607	-10.2	2.1E-24	2.0E-23
ENSG00000184481	FOXO4	forkhead box O4 [Source:HGNC Symbol;Acc:HGNC:7139]	115	-1.95	0.1916	-10.2	2.1E-24	2.0E-23
ENSG00000175395	ZNF25	zinc finger protein 25 [Source:HGNC Symbol;Acc:HGNC:13043]	133	-1.79	0.1752	-10.2	2.1E-24	2.0E-23
ENSG00000235098	ANKRD65	ankyrin repeat domain 65 [Source:HGNC Symbol;Acc:HGNC:42950]	56	-4.72	0.4646	-10.2	2.8E-24	2.6E-23
ENSG00000162552	WNT4	Wnt family member 4 [Source:HGNC Symbol;Acc:HGNC:12783]	81	-2.59	0.2550	-10.2	3.0E-24	2.8E-23
ENSG00000128165	ADM2	adrenomedullin 2 [Source:HGNC Symbol;Acc:HGNC:28898]	181	-1.49	0.1469	-10.2	3.2E-24	3.0E-23
ENSG00000171365	CLCN5	chloride voltage-gated channel 5 [Source:HGNC Symbol;Acc:HGNC:2023]	526	-0.96	0.0948	-10.2	3.3E-24	3.1E-23
ENSG00000163131	CTSS	cathepsin S [Source:HGNC Symbol;Acc:HGNC:2545]	89	-2.34	0.2309	-10.1	4.2E-24	4.0E-23
ENSG00000143845	ETNK2	ethanolamine kinase 2 [Source:HGNC Symbol;Acc:HGNC:25575]	507	-0.89	0.0875	-10.1	4.3E-24	4.0E-23
ENSG00000236975	LINC02814	long intergenic non-protein coding RNA 2814 [Source:HGNC Symbol;Acc:HGNC:54346]	93	-2.33	0.2303	-10.1	4.4E-24	4.1E-23
ENSG00000121741	ZMYM2	zinc finger MYM-type containing 2 [Source:HGNC Symbol;Acc:HGNC:12989]	887	-0.66	0.0650	-10.1	5.0E-24	4.7E-23
ENSG00000133134	BEX2	brain expressed X-linked 2 [Source:HGNC Symbol;Acc:HGNC:30933]	215	-1.40	0.1383	-10.1	5.4E-24	5.0E-23
ENSG00000128833	MYO5C	myosin VC [Source:HGNC Symbol;Acc:HGNC:7604]	214	-1.50	0.1485	-10.1	5.8E-24	5.5E-23
ENSG00000131061	ZNF341	zinc finger protein 341 [Source:HGNC Symbol;Acc:HGNC:15992]	484	-0.88	0.0873	-10.1	7.5E-24	7.0E-23
ENSG00000183762	KREMEN1	kringle containing transmembrane protein 1 [Source:HGNC Symbol;Acc:HGNC:17550]	429	-0.93	0.0922	-10.1	7.9E-24	7.4E-23
ENSG00000160307	S100B	S100 calcium binding protein B [Source:HGNC Symbol;Acc:HGNC:10500]	69	-2.76	0.2746	-10.1	8.3E-24	7.8E-23
ENSG00000153930	ANKFN1	ankyrin repeat and fibronectin type III domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26766]	182	-8.46	0.8408	-10.1	8.4E-24	7.8E-23
ENSG00000168769	TET2	tet methylcytosine dioxygenase 2 [Source:HGNC Symbol;Acc:HGNC:25941]	882	-0.65	0.0644	-10.1	8.6E-24	8.0E-23
ENSG00000055118	KCNH2	potassium voltage-gated channel subfamily H member 2 [Source:HGNC Symbol;Acc:HGNC:6251]	92	-2.16	0.2152	-10.1	8.9E-24	8.3E-23
ENSG00000130714	POMT1	protein O-mannosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:9202]	854	-0.67	0.0670	-10.0	1.0E-23	9.5E-23
ENSG00000204160	ZDHHC18	zinc finger DHHC-type palmitoyltransferase 18 [Source:HGNC Symbol;Acc:HGNC:20712]	1157	-0.59	0.0586	-10.0	1.1E-23	9.8E-23
ENSG00000142599	RERE	arginine-glutamic acid dipeptide repeats [Source:HGNC Symbol;Acc:HGNC:9965]	1654	-0.57	0.0573	-10.0	1.1E-23	1.0E-22
ENSG00000152217	SETBP1	SET binding protein 1 [Source:HGNC Symbol;Acc:HGNC:15573]	415	-0.98	0.0981	-10.0	1.3E-23	1.2E-22
ENSG00000214194	SMIM30	small integral membrane protein 30 [Source:HGNC Symbol;Acc:HGNC:48953]	731	-0.76	0.0757	-10.0	1.4E-23	1.3E-22
ENSG00000041353	RAB27B	RAB27B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9767]	487	-0.88	0.0876	-10.0	1.5E-23	1.3E-22
ENSG00000107821	KAZALD1	Kazal type serine peptidase inhibitor domain 1 [Source:HGNC Symbol;Acc:HGNC:25460]	194	-1.45	0.1446	-10.0	1.5E-23	1.4E-22
ENSG00000016082	ISL1	ISL LIM homeobox 1 [Source:HGNC Symbol;Acc:HGNC:6132]	55	-3.71	0.3716	-10.0	1.8E-23	1.7E-22
ENSG00000040933	INPP4A	inositol polyphosphate-4-phosphatase type I A [Source:HGNC Symbol;Acc:HGNC:6074]	1270	-0.57	0.0570	-10.0	1.8E-23	1.7E-22
ENSG00000014257	ACP3	acid phosphatase 3 [Source:HGNC Symbol;Acc:HGNC:125]	65	-2.90	0.2903	-10.0	1.9E-23	1.7E-22
ENSG00000163346	PBXIP1	PBX homeobox interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:21199]	699	-0.76	0.0764	-10.0	1.9E-23	1.7E-22
ENSG00000111269	CREBL2	cAMP responsive element binding protein like 2 [Source:HGNC Symbol;Acc:HGNC:2350]	856	-0.66	0.0659	-10.0	2.1E-23	1.9E-22
ENSG00000106327	TFR2	transferrin receptor 2 [Source:HGNC Symbol;Acc:HGNC:11762]	365	-1.02	0.1027	-9.9	2.5E-23	2.3E-22
ENSG00000173369	C1QB	complement C1q B chain [Source:HGNC Symbol;Acc:HGNC:1242]	80	-2.44	0.2455	-9.9	2.7E-23	2.5E-22

ENSG00000175155	YPEL2	yippee like 2 [Source:HGNC Symbol;Acc:HGNC:18326]	123	-1.81	0.1828	-9.9	4.2E-23	3.9E-22
ENSG00000240694	PNMA2	PNMA family member 2 [Source:HGNC Symbol;Acc:HGNC:9159]	71	-2.57	0.2597	-9.9	4.5E-23	4.1E-22
ENSG00000106025	TSPAN12	tetraspanin 12 [Source:HGNC Symbol;Acc:HGNC:21641]	205	-1.46	0.1481	-9.9	4.8E-23	4.4E-22
ENSG00000185361	TNFAIP8L1	TNF alpha induced protein 8 like 1 [Source:HGNC Symbol;Acc:HGNC:28279]	163	-1.54	0.1557	-9.9	4.9E-23	4.4E-22
ENSG00000101265	RASSF2	Ras association domain family member 2 [Source:HGNC Symbol;Acc:HGNC:9883]	88	-2.26	0.2291	-9.9	5.1E-23	4.7E-22
ENSG00000144868	TMEM108	transmembrane protein 108 [Source:HGNC Symbol;Acc:HGNC:28451]	83	-6.58	0.6666	-9.9	5.3E-23	4.8E-22
ENSG00000101544	ADNP2	ADNP homeobox 2 [Source:HGNC Symbol;Acc:HGNC:23803]	674	-0.74	0.0749	-9.9	5.9E-23	5.4E-22
ENSG00000182158	CREB3L2	cAMP responsive element binding protein 3 like 2 [Source:HGNC Symbol;Acc:HGNC:23720]	1164	-0.61	0.0614	-9.9	6.1E-23	5.5E-22
ENSG00000180251	SLC9A4	solute carrier family 9 member A4 [Source:HGNC Symbol;Acc:HGNC:11077]	53	-4.39	0.4455	-9.9	6.2E-23	5.6E-22
ENSG00000135299	ANKRD6	ankyrin repeat domain 6 [Source:HGNC Symbol;Acc:HGNC:17280]	165	-1.48	0.1499	-9.9	6.4E-23	5.8E-22
ENSG00000101751	POLI	DNA polymerase iota [Source:HGNC Symbol;Acc:HGNC:9182]	373	-0.99	0.1002	-9.9	6.8E-23	6.2E-22
ENSG00000240280	TCAM1P	testicular cell adhesion molecule 1, pseudogene [Source:HGNC Symbol;Acc:HGNC:30707]	101	-2.02	0.2061	-9.8	9.1E-23	8.2E-22
ENSG00000154856	APCDD1	APC down-regulated 1 [Source:HGNC Symbol;Acc:HGNC:15718]	56	-5.13	0.5220	-9.8	9.3E-23	8.4E-22
ENSG00000072832	CRMP1	collapsin response mediator protein 1 [Source:HGNC Symbol;Acc:HGNC:2365]	232	-1.28	0.1304	-9.8	9.4E-23	8.5E-22
ENSG00000227825	SLC9A7P1	solute carrier family 9 member 7 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:32679]	253	-1.16	0.1182	-9.8	1.0E-22	9.1E-22
ENSG00000178726	THBD	thrombomodulin [Source:HGNC Symbol;Acc:HGNC:11784]	258	-3.14	0.3203	-9.8	1.2E-22	1.1E-21
ENSG00000164080	RAD54L2	RAD54 like 2 [Source:HGNC Symbol;Acc:HGNC:29123]	1047	-0.60	0.0617	-9.8	1.3E-22	1.2E-21
ENSG00000077684	JADE1	jade family PHD finger 1 [Source:HGNC Symbol;Acc:HGNC:30027]	881	-0.68	0.0697	-9.8	1.4E-22	1.3E-21
ENSG00000123095	BHLHE41	basic helix-loop-helix family member e41 [Source:HGNC Symbol;Acc:HGNC:16617]	149	-1.60	0.1638	-9.8	1.4E-22	1.3E-21
ENSG00000060140	STYK1	serine/threonine/tyrosine kinase 1 [Source:HGNC Symbol;Acc:HGNC:18889]	764	-0.75	0.0769	-9.8	1.7E-22	1.6E-21
ENSG00000134716	CYP2J2	cytochrome P450 family 2 subfamily J member 2 [Source:HGNC Symbol;Acc:HGNC:2634]	80	-2.30	0.2362	-9.8	1.8E-22	1.6E-21
ENSG00000197217	ENTPD4	ectonucleoside triphosphate diphosphohydrolase 4 [Source:HGNC Symbol;Acc:HGNC:14573]	997	-0.59	0.0607	-9.7	1.9E-22	1.7E-21
ENSG00000116711	PLA2G4A	phospholipase A2 group IVA [Source:HGNC Symbol;Acc:HGNC:9035]	58	-5.37	0.5512	-9.7	1.9E-22	1.7E-21
ENSG00000109458	GAB1	GRB2 associated binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4066]	1050	-0.63	0.0644	-9.7	2.0E-22	1.8E-21
ENSG00000170545	SMAGP	small cell adhesion glycoprotein [Source:HGNC Symbol;Acc:HGNC:26918]	524	-0.87	0.0889	-9.7	2.1E-22	1.8E-21
ENSG00000119537	KDSR	3-ketodihydrosphingosine reductase [Source:HGNC Symbol;Acc:HGNC:4021]	782	-0.66	0.0683	-9.7	2.1E-22	1.9E-21
ENSG00000073067	CYP2W1	cytochrome P450 family 2 subfamily W member 1 [Source:HGNC Symbol;Acc:HGNC:20243]	100	-7.18	0.7371	-9.7	2.1E-22	1.9E-21
ENSG00000173890	GPR160	G protein-coupled receptor 160 [Source:HGNC Symbol;Acc:HGNC:23693]	85	-2.32	0.2385	-9.7	2.2E-22	2.0E-21
ENSG00000107902	LHPP	phospholysine phosphohistidine inorganic pyrophosphate phosphatase [Source:HGNC Symbol;Acc:HGNC:10790]	518	-0.84	0.0862	-9.7	2.4E-22	2.1E-21
ENSG00000007237	GAS7	growth arrest specific 7 [Source:HGNC Symbol;Acc:HGNC:4169]	161	-1.56	0.1604	-9.7	2.4E-22	2.2E-21
ENSG00000163900	TMEM41A	transmembrane protein 41A [Source:HGNC Symbol;Acc:HGNC:30544]	1006	-0.61	0.0630	-9.7	2.6E-22	2.3E-21
ENSG00000174307	PHLDA3	pleckstrin homology like domain family A member 3 [Source:HGNC Symbol;Acc:HGNC:8934]	1766	-0.53	0.0546	-9.7	3.1E-22	2.7E-21
ENSG00000153246	PLA2R1	phospholipase A2 receptor 1 [Source:HGNC Symbol;Acc:HGNC:9042]	352	-1.05	0.1083	-9.7	3.1E-22	2.8E-21
ENSG00000177570	SAMD12	sterile alpha motif domain containing 12 [Source:HGNC Symbol;Acc:HGNC:31750]	64	-2.77	0.2855	-9.7	3.2E-22	2.9E-21
ENSG00000175782	SLC35E3	solute carrier family 35 member E3 [Source:HGNC Symbol;Acc:HGNC:20864]	661	-0.78	0.0812	-9.6	5.7E-22	5.0E-21
ENSG00000135218	CD36	CD36 molecule [Source:HGNC Symbol;Acc:HGNC:1663]	55	-3.23	0.3356	-9.6	5.8E-22	5.1E-21
ENSG00000151623	NR3C2	nuclear receptor subfamily 3 group C member 2 [Source:HGNC Symbol;Acc:HGNC:7979]	49	-4.52	0.4700	-9.6	6.5E-22	5.8E-21
ENSG00000134086	VHL	von Hippel-Lindau tumor suppressor [Source:HGNC Symbol;Acc:HGNC:12687]	799	-0.65	0.0671	-9.6	6.6E-22	5.8E-21
ENSG00000214357	NEURL1B	neuralized E3 ubiquitin protein ligase 1B [Source:HGNC Symbol;Acc:HGNC:35422]	323	-1.06	0.1104	-9.6	7.7E-22	6.8E-21
ENSG00000122490	SLC66A2	solute carrier family 66 member 2 [Source:HGNC Symbol;Acc:HGNC:26188]	1454	-0.56	0.0583	-9.6	8.3E-22	7.3E-21
ENSG00000137841	PLCB2	phospholipase C beta 2 [Source:HGNC Symbol;Acc:HGNC:9055]	79	-2.36	0.2457	-9.6	8.5E-22	7.4E-21
ENSG00000139428	MMAB	metabolism of cobalamin associated B [Source:HGNC Symbol;Acc:HGNC:19331]	390	-0.96	0.1004	-9.6	8.7E-22	7.6E-21

ENSG00000142973	CYP4B1	cytochrome P450 family 4 subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:2644]	58	-2.98	0.3108	-9.6	9.1E-22	8.0E-21
ENSG00000094975	SUCO	SUN domain containing ossification factor [Source:HGNC Symbol;Acc:HGNC:1240]	1662	-0.53	0.0551	-9.6	9.5E-22	8.3E-21
ENSG00000143119	CD53	CD53 molecule [Source:HGNC Symbol;Acc:HGNC:1686]	70	-2.50	0.2607	-9.6	9.6E-22	8.4E-21
ENSG00000167771	RCOR2	REST corepressor 2 [Source:HGNC Symbol;Acc:HGNC:27455]	73	-2.46	0.2573	-9.6	1.0E-21	8.7E-21
ENSG00000166033	HTRA1	HtrA serine peptidase 1 [Source:HGNC Symbol;Acc:HGNC:9476]	149	-1.54	0.1606	-9.6	1.0E-21	8.8E-21
ENSG00000143631	FLG	filaggrin [Source:HGNC Symbol;Acc:HGNC:3748]	55	-3.11	0.3250	-9.6	1.0E-21	8.9E-21
ENSG00000181396	OGFOD3	2-oxoglutarate and iron dependent oxygenase domain containing 3 [Source:HGNC Symbol;Acc:HGNC:2660]	1113	-0.55	0.0577	-9.6	1.0E-21	9.0E-21
ENSG00000030419	IKZF2	IKAROS family zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:13177]	319	-1.02	0.1071	-9.5	1.5E-21	1.3E-20
ENSG00000157851	DPYSL5	dihydropyrimidinase like 5 [Source:HGNC Symbol;Acc:HGNC:20637]	117	-1.79	0.1874	-9.5	1.6E-21	1.4E-20
ENSG00000106948	AKNA	AT-hook transcription factor [Source:HGNC Symbol;Acc:HGNC:24108]	153	-1.52	0.1594	-9.5	1.7E-21	1.5E-20
ENSG00000144648	ACKR2	atypical chemokine receptor 2 [Source:HGNC Symbol;Acc:HGNC:1565]	48	-4.48	0.4706	-9.5	1.8E-21	1.5E-20
ENSG00000003400	CASP10	caspase 10 [Source:HGNC Symbol;Acc:HGNC:1500]	162	-1.47	0.1544	-9.5	1.9E-21	1.6E-20
ENSG00000181449	SOX2	SRY-box transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:11195]	152	-3.42	0.3596	-9.5	2.1E-21	1.8E-20
ENSG00000113448	PDE4D	phosphodiesterase 4D [Source:HGNC Symbol;Acc:HGNC:8783]	259	-1.15	0.1212	-9.5	2.1E-21	1.9E-20
ENSG00000171858	RPS21	ribosomal protein S21 [Source:HGNC Symbol;Acc:HGNC:10409]	25763	-0.55	0.0585	-9.5	2.6E-21	2.3E-20
ENSG00000163823	CCR1	C-C motif chemokine receptor 1 [Source:HGNC Symbol;Acc:HGNC:1602]	90	-2.10	0.2211	-9.5	2.6E-21	2.3E-20
ENSG00000169750	RAC3	Rac family small GTPase 3 [Source:HGNC Symbol;Acc:HGNC:9803]	255	-1.15	0.1215	-9.5	2.7E-21	2.3E-20
ENSG00000187244	BCAM	basal cell adhesion molecule (Lutheran blood group) [Source:HGNC Symbol;Acc:HGNC:6722]	1250	-0.53	0.0559	-9.5	2.7E-21	2.4E-20
ENSG00000122966	CIT	citron rho-interacting serine/threonine kinase [Source:HGNC Symbol;Acc:HGNC:1985]	1344	-0.55	0.0577	-9.5	2.9E-21	2.5E-20
ENSG00000139055	ERP27	endoplasmic reticulum protein 27 [Source:HGNC Symbol;Acc:HGNC:26495]	465	-0.86	0.0909	-9.5	3.0E-21	2.6E-20
ENSG00000204866	IGFL2	IGF like family member 2 [Source:HGNC Symbol;Acc:HGNC:32929]	72	-6.36	0.6725	-9.5	3.1E-21	2.7E-20
ENSG00000119927	GPAM	glycerol-3-phosphate acyltransferase, mitochondrial [Source:HGNC Symbol;Acc:HGNC:24865]	795	-0.72	0.0763	-9.4	3.4E-21	2.9E-20
ENSG00000189337	KAZN	kazrin, periplakin interacting protein [Source:HGNC Symbol;Acc:HGNC:29173]	715	-0.67	0.0709	-9.4	3.4E-21	3.0E-20
ENSG00000130224	LRCH2	leucine rich repeats and calponin homology domain containing 2 [Source:HGNC Symbol;Acc:HGNC:29295]	88	-6.98	0.7390	-9.4	3.5E-21	3.0E-20
ENSG00000215808	LINC01139	long intergenic non-protein coding RNA 1139 [Source:HGNC Symbol;Acc:HGNC:27924]	201	-1.33	0.1413	-9.4	3.7E-21	3.2E-20
ENSG00000177485	ZBTB33	zinc finger and BTB domain containing 33 [Source:HGNC Symbol;Acc:HGNC:16682]	472	-0.84	0.0888	-9.4	4.8E-21	4.1E-20
ENSG00000120063	GNA13	G protein subunit alpha 13 [Source:HGNC Symbol;Acc:HGNC:4381]	1351	-0.52	0.0555	-9.4	5.1E-21	4.4E-20
ENSG00000197892	KIF13B	kinesin family member 13B [Source:HGNC Symbol;Acc:HGNC:14405]	128	-1.67	0.1772	-9.4	5.4E-21	4.6E-20
ENSG00000129197	RPAIN	RPA interacting protein [Source:HGNC Symbol;Acc:HGNC:28641]	348	-0.98	0.1047	-9.4	5.8E-21	5.0E-20
ENSG00000043514	TRIT1	tRNA isopentenyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:20286]	564	-0.76	0.0813	-9.4	6.0E-21	5.1E-20
ENSG00000102981	PAR6A	par-6 family cell polarity regulator alpha [Source:HGNC Symbol;Acc:HGNC:15943]	137	-1.72	0.1835	-9.4	6.2E-21	5.3E-20
ENSG00000132196	HSD17B7	hydroxysteroid 17-beta dehydrogenase 7 [Source:HGNC Symbol;Acc:HGNC:5215]	262	-1.10	0.1172	-9.4	6.2E-21	5.3E-20
ENSG00000172818	OVOL1	ovo like transcriptional repressor 1 [Source:HGNC Symbol;Acc:HGNC:8525]	719	-0.69	0.0733	-9.4	6.8E-21	5.8E-20
ENSG00000198807	PAX9	paired box 9 [Source:HGNC Symbol;Acc:HGNC:8623]	328	-0.99	0.1059	-9.4	7.9E-21	6.7E-20
ENSG00000081237	PTPRC	protein tyrosine phosphatase receptor type C [Source:HGNC Symbol;Acc:HGNC:9666]	80	-2.23	0.2388	-9.4	8.6E-21	7.3E-20
ENSG00000153574	RPIA	ribose 5-phosphate isomerase A [Source:HGNC Symbol;Acc:HGNC:10297]	662	-0.72	0.0770	-9.4	8.6E-21	7.3E-20
ENSG00000167363	FN3K	fructosamine 3 kinase [Source:HGNC Symbol;Acc:HGNC:24822]	205	-1.31	0.1403	-9.3	9.1E-21	7.8E-20
ENSG00000204291	COL15A1	collagen type XV alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2192]	75	-2.29	0.2455	-9.3	1.1E-20	9.7E-20
ENSG00000035115	SH3YL1	SH3 and SYLF domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29546]	946	-0.59	0.0633	-9.3	1.2E-20	1.0E-19
ENSG00000162782	TDRD5	tudor domain containing 5 [Source:HGNC Symbol;Acc:HGNC:20614]	55	-5.49	0.5889	-9.3	1.2E-20	1.0E-19
ENSG00000105767	CADM4	cell adhesion molecule 4 [Source:HGNC Symbol;Acc:HGNC:30825]	340	-0.99	0.1065	-9.3	1.3E-20	1.1E-19
ENSG00000168264	IRF2BP2	interferon regulatory factor 2 binding protein 2 [Source:HGNC Symbol;Acc:HGNC:21729]	535	-0.79	0.0848	-9.3	1.3E-20	1.1E-19

ENSG00000228340	MIR646HG	MIR646 host gene [Source:HGNC Symbol;Acc:HGNC:27659]	153	-1.66	0.1786	-9.3	1.4E-20	1.2E-19
ENSG00000123358	NR4A1	nuclear receptor subfamily 4 group A member 1 [Source:HGNC Symbol;Acc:HGNC:7980]	298	-1.05	0.1134	-9.3	1.4E-20	1.2E-19
ENSG00000134444	RELCH	RAB11 binding and LisH domain, coiled-coil and HEAT repeat containing [Source:HGNC Symbol;Acc:HGNC:111674]	916	-0.59	0.0637	-9.3	1.4E-20	1.2E-19
ENSG00000111674	ENO2	enolase 2 [Source:HGNC Symbol;Acc:HGNC:3353]	383	-0.95	0.1027	-9.3	1.5E-20	1.2E-19
ENSG00000087250	MT3	metallothionein 3 [Source:HGNC Symbol;Acc:HGNC:7408]	82	-2.21	0.2383	-9.3	1.6E-20	1.3E-19
ENSG00000146083	RNF44	ring finger protein 44 [Source:HGNC Symbol;Acc:HGNC:19180]	896	-0.59	0.0633	-9.3	1.6E-20	1.3E-19
ENSG00000162511	LAPTM5	lysosomal protein transmembrane 5 [Source:HGNC Symbol;Acc:HGNC:29612]	118	-1.71	0.1844	-9.3	1.9E-20	1.6E-19
ENSG00000123472	ATPAF1	ATP synthase mitochondrial F1 complex assembly factor 1 [Source:HGNC Symbol;Acc:HGNC:18803]	609	-0.71	0.0761	-9.3	1.9E-20	1.6E-19
ENSG00000189129	PLAC9	placenta associated 9 [Source:HGNC Symbol;Acc:HGNC:19255]	56	-2.96	0.3196	-9.3	2.0E-20	1.6E-19
ENSG00000089057	SLC23A2	solute carrier family 23 member 2 [Source:HGNC Symbol;Acc:HGNC:10973]	740	-0.68	0.0732	-9.2	2.4E-20	2.0E-19
ENSG00000259479	SORD2P	sorbitol dehydrogenase 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:49919]	68	-2.41	0.2605	-9.2	2.7E-20	2.2E-19
ENSG00000162676	GFI1	growth factor independent 1 transcriptional repressor [Source:HGNC Symbol;Acc:HGNC:4237]	61	-2.60	0.2815	-9.2	2.8E-20	2.3E-19
ENSG00000183378	OVCH2	ovochymase 2 [Source:HGNC Symbol;Acc:HGNC:29970]	50	-3.30	0.3579	-9.2	3.1E-20	2.6E-19
ENSG00000164023	SGMS2	sphingomyelin synthase 2 [Source:HGNC Symbol;Acc:HGNC:28395]	1128	-0.57	0.0623	-9.2	3.2E-20	2.6E-19
ENSG00000166275	BORCS7	BLOC-1 related complex subunit 7 [Source:HGNC Symbol;Acc:HGNC:23516]	210	-1.21	0.1316	-9.2	3.2E-20	2.7E-19
ENSG00000134759	ELP2	elongator acetyltransferase complex subunit 2 [Source:HGNC Symbol;Acc:HGNC:18248]	949	-0.58	0.0628	-9.2	3.3E-20	2.7E-19
ENSG00000162980	ARL5A	ADP ribosylation factor like GTPase 5A [Source:HGNC Symbol;Acc:HGNC:696]	389	-0.92	0.0998	-9.2	3.4E-20	2.8E-19
ENSG00000198026	ZNF335	zinc finger protein 335 [Source:HGNC Symbol;Acc:HGNC:15807]	1333	-0.50	0.0545	-9.2	4.1E-20	3.4E-19
ENSG00000172466	ZNF24	zinc finger protein 24 [Source:HGNC Symbol;Acc:HGNC:13032]	1444	-0.51	0.0551	-9.2	4.1E-20	3.4E-19
ENSG00000143228	NUF2	NUF2 component of NDC80 kinetochore complex [Source:HGNC Symbol;Acc:HGNC:14621]	791	-0.62	0.0673	-9.2	4.3E-20	3.6E-19
ENSG00000164342	TLR3	toll like receptor 3 [Source:HGNC Symbol;Acc:HGNC:11849]	262	-1.15	0.1250	-9.2	4.7E-20	3.9E-19
ENSG00000198715	GLMP	glycosylated lysosomal membrane protein [Source:HGNC Symbol;Acc:HGNC:29436]	291	-1.04	0.1134	-9.2	4.7E-20	3.9E-19
ENSG00000175414	ARL10	ADP ribosylation factor like GTPase 10 [Source:HGNC Symbol;Acc:HGNC:22042]	94	-1.93	0.2107	-9.2	4.8E-20	4.0E-19
ENSG00000074966	TXK	TXK tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:12434]	48	-3.35	0.3658	-9.1	5.7E-20	4.7E-19
ENSG00000028137	TNFRSF1B	TNF receptor superfamily member 1B [Source:HGNC Symbol;Acc:HGNC:11917]	205	-1.29	0.1408	-9.1	6.2E-20	5.1E-19
ENSG00000013725	CD6	CD6 molecule [Source:HGNC Symbol;Acc:HGNC:1691]	48	-4.90	0.5362	-9.1	6.6E-20	5.5E-19
ENSG00000154330	PGM5	phosphoglucomutase 5 [Source:HGNC Symbol;Acc:HGNC:8908]	46	-4.84	0.5298	-9.1	6.8E-20	5.6E-19
ENSG00000112186	CAP2	cyclase associated actin cytoskeleton regulatory protein 2 [Source:HGNC Symbol;Acc:HGNC:20039]	993	-0.58	0.0633	-9.1	6.9E-20	5.7E-19
ENSG00000255690	TRIL	TLR4 interactor with leucine rich repeats [Source:HGNC Symbol;Acc:HGNC:22200]	56	-5.73	0.6281	-9.1	6.9E-20	5.7E-19
ENSG00000046653	GPM6B	glycoprotein M6B [Source:HGNC Symbol;Acc:HGNC:4461]	121	-1.69	0.1857	-9.1	7.1E-20	5.8E-19
ENSG00000117155	SSX2IP	SSX family member 2 interacting protein [Source:HGNC Symbol;Acc:HGNC:16509]	1137	-0.53	0.0585	-9.1	7.7E-20	6.3E-19
ENSG00000180190	TDRP	testis development related protein [Source:HGNC Symbol;Acc:HGNC:26951]	208	-1.24	0.1359	-9.1	7.7E-20	6.4E-19
ENSG00000143878	RHOB	ras homolog family member B [Source:HGNC Symbol;Acc:HGNC:668]	747	-0.65	0.0716	-9.1	8.1E-20	6.6E-19
ENSG00000168143	FAM83B	family with sequence similarity 83 member B [Source:HGNC Symbol;Acc:HGNC:21357]	366	-0.93	0.1016	-9.1	8.2E-20	6.7E-19
ENSG00000179869	ABCA13	ATP binding cassette subfamily A member 13 [Source:HGNC Symbol;Acc:HGNC:14638]	108	-1.73	0.1905	-9.1	9.0E-20	7.4E-19
ENSG00000149328	GLB1L2	galactosidase beta 1 like 2 [Source:HGNC Symbol;Acc:HGNC:25129]	63	-2.54	0.2788	-9.1	9.1E-20	7.5E-19
ENSG00000100473	COCH	cochlin [Source:HGNC Symbol;Acc:HGNC:2180]	70	-2.35	0.2590	-9.1	1.1E-19	8.7E-19
ENSG00000130222	GADD45G	growth arrest and DNA damage inducible gamma [Source:HGNC Symbol;Acc:HGNC:4097]	85	-2.19	0.2408	-9.1	1.1E-19	9.3E-19
ENSG00000173597	SULT1B1	sulfotransferase family 1B member 1 [Source:HGNC Symbol;Acc:HGNC:17845]	43	-4.46	0.4913	-9.1	1.2E-19	9.9E-19
ENSG00000198780	FAM169A	family with sequence similarity 169 member A [Source:HGNC Symbol;Acc:HGNC:29138]	540	-0.78	0.0859	-9.1	1.3E-19	1.0E-18
ENSG00000198825	INPP5F	inositol polyphosphate-5-phosphatase F [Source:HGNC Symbol;Acc:HGNC:17054]	607	-0.77	0.0853	-9.1	1.3E-19	1.0E-18
ENSG00000198846	TOX	thymocyte selection associated high mobility group box [Source:HGNC Symbol;Acc:HGNC:18988]	45	-3.94	0.4344	-9.1	1.3E-19	1.1E-18

ENSG00000232316	LINC02518	long intergenic non-protein coding RNA 2518 [Source:HGNC Symbol;Acc:HGNC:53509]	68	-2.34	0.2589	-9.0	1.5E-19	1.3E-18
ENSG00000144119	C1QL2	complement C1q like 2 [Source:HGNC Symbol;Acc:HGNC:24181]	47	-5.06	0.5599	-9.0	1.6E-19	1.3E-18
ENSG00000187240	DYNC2H1	dynein cytoplasmic 2 heavy chain 1 [Source:HGNC Symbol;Acc:HGNC:2962]	421	-0.83	0.0916	-9.0	1.6E-19	1.3E-18
ENSG00000105877	DNAH11	dynein axonemal heavy chain 11 [Source:HGNC Symbol;Acc:HGNC:2942]	172	-1.46	0.1620	-9.0	1.7E-19	1.3E-18
ENSG00000115956	PLEK	pleckstrin [Source:HGNC Symbol;Acc:HGNC:9070]	102	-1.96	0.2172	-9.0	1.7E-19	1.3E-18
ENSG00000123684	LPGAT1	lysophosphatidylglycerol acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:28985]	1123	-0.52	0.0572	-9.0	2.0E-19	1.6E-18
ENSG00000134962	KLB	klotho beta [Source:HGNC Symbol;Acc:HGNC:15527]	51	-3.04	0.3375	-9.0	2.1E-19	1.7E-18
ENSG00000133678	TMEM254	transmembrane protein 254 [Source:HGNC Symbol;Acc:HGNC:25804]	575	-0.87	0.0973	-9.0	2.7E-19	2.1E-18
ENSG00000138744	NAAA	N-acylethanolamine acid amidase [Source:HGNC Symbol;Acc:HGNC:736]	648	-0.70	0.0784	-9.0	2.7E-19	2.2E-18
ENSG00000231764	DLX6-AS1	DLX6 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:37151]	210	-1.18	0.1319	-9.0	2.9E-19	2.3E-18
ENSG00000188404	SELL	selectin L [Source:HGNC Symbol;Acc:HGNC:10720]	45	-3.43	0.3832	-9.0	3.3E-19	2.7E-18
ENSG00000148400	NOTCH1	notch receptor 1 [Source:HGNC Symbol;Acc:HGNC:7881]	810	-0.63	0.0708	-8.9	3.6E-19	2.9E-18
ENSG00000120685	PROSER1	proline and serine rich 1 [Source:HGNC Symbol;Acc:HGNC:20291]	524	-0.76	0.0851	-8.9	3.9E-19	3.1E-18
ENSG00000108840	HDAC5	histone deacetylase 5 [Source:HGNC Symbol;Acc:HGNC:14068]	642	-0.72	0.0803	-8.9	4.2E-19	3.3E-18
ENSG00000154655	L3MBTL4	L3MBTL histone methyl-lysine binding protein 4 [Source:HGNC Symbol;Acc:HGNC:26677]	51	-5.60	0.6280	-8.9	4.7E-19	3.7E-18
ENSG00000171522	PTGER4	prostaglandin E receptor 4 [Source:HGNC Symbol;Acc:HGNC:9596]	121	-1.60	0.1797	-8.9	5.2E-19	4.1E-18
ENSG00000114744	COMMD2	COMM domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24993]	1099	-0.56	0.0634	-8.9	5.7E-19	4.5E-18
ENSG00000047365	ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:HGNC:16924]	878	-0.58	0.0646	-8.9	5.7E-19	4.5E-18
ENSG00000137078	SIT1	signaling threshold regulating transmembrane adaptor 1 [Source:HGNC Symbol;Acc:HGNC:17710]	50	-5.59	0.6280	-8.9	5.7E-19	4.5E-18
ENSG00000196189	SEMA4A	semaphorin 4A [Source:HGNC Symbol;Acc:HGNC:10729]	70	-2.48	0.2791	-8.9	6.0E-19	4.7E-18
ENSG00000143344	RGL1	ral guanine nucleotide dissociation stimulator like 1 [Source:HGNC Symbol;Acc:HGNC:30281]	176	-1.31	0.1470	-8.9	6.3E-19	5.0E-18
ENSG00000161405	IKZF3	IKAROS family zinc finger 3 [Source:HGNC Symbol;Acc:HGNC:13178]	45	-4.98	0.5603	-8.9	6.4E-19	5.0E-18
ENSG00000138615	CILP	cartilage intermediate layer protein [Source:HGNC Symbol;Acc:HGNC:1980]	68	-6.62	0.7459	-8.9	7.3E-19	5.7E-18
ENSG00000003249	DBNDD1	dysbindin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28455]	552	-0.71	0.0804	-8.9	7.3E-19	5.8E-18
ENSG00000121807	CCR2	C-C motif chemokine receptor 2 [Source:HGNC Symbol;Acc:HGNC:1603]	78	-2.15	0.2421	-8.9	7.4E-19	5.8E-18
ENSG00000164051	CCDC51	coiled-coil domain containing 51 [Source:HGNC Symbol;Acc:HGNC:25714]	1257	-0.51	0.0571	-8.9	7.9E-19	6.2E-18
ENSG00000185015	CA13	carbonic anhydrase 13 [Source:HGNC Symbol;Acc:HGNC:14914]	42	-3.74	0.4224	-8.9	7.9E-19	6.2E-18
ENSG00000159714	ZDHHC1	zinc finger DHHC-type containing 1 [Source:HGNC Symbol;Acc:HGNC:17916]	142	-1.47	0.1657	-8.9	8.2E-19	6.4E-18
ENSG00000160050	CCDC28B	coiled-coil domain containing 28B [Source:HGNC Symbol;Acc:HGNC:28163]	69	-2.21	0.2498	-8.9	8.2E-19	6.4E-18
ENSG00000178498	DTX3	deltex E3 ubiquitin ligase 3 [Source:HGNC Symbol;Acc:HGNC:24457]	350	-0.91	0.1023	-8.9	8.6E-19	6.8E-18
ENSG00000100422	CERK	ceramide kinase [Source:HGNC Symbol;Acc:HGNC:19256]	899	-0.57	0.0640	-8.8	9.0E-19	7.0E-18
ENSG00000100105	PATZ1	POZ/BTB and AT hook containing zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:13071]	1083	-0.57	0.0648	-8.8	9.0E-19	7.1E-18
ENSG00000160117	ANKLE1	ankyrin repeat and LEM domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26812]	53	-2.74	0.3103	-8.8	1.1E-18	8.5E-18
ENSG00000125384	PTGER2	prostaglandin E receptor 2 [Source:HGNC Symbol;Acc:HGNC:9594]	89	-1.88	0.2130	-8.8	1.1E-18	8.8E-18
ENSG00000116704	SLC35D1	solute carrier family 35 member D1 [Source:HGNC Symbol;Acc:HGNC:20800]	662	-0.68	0.0777	-8.8	1.2E-18	9.4E-18
ENSG00000233695	GAS6-AS1	GAS6 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:39826]	85	-2.06	0.2341	-8.8	1.2E-18	9.6E-18
ENSG00000157240	FZD1	frizzled class receptor 1 [Source:HGNC Symbol;Acc:HGNC:4038]	1147	-0.58	0.0655	-8.8	1.3E-18	1.0E-17
ENSG00000153029	MR1	major histocompatibility complex, class I-related [Source:HGNC Symbol;Acc:HGNC:4975]	210	-1.24	0.1409	-8.8	1.3E-18	1.0E-17
ENSG00000168476	REEP4	receptor accessory protein 4 [Source:HGNC Symbol;Acc:HGNC:26176]	857	-0.57	0.0649	-8.8	1.3E-18	1.0E-17
ENSG00000120029	ARMH3	armadillo like helical domain containing 3 [Source:HGNC Symbol;Acc:HGNC:25788]	873	-0.57	0.0653	-8.8	1.6E-18	1.2E-17
ENSG00000129355	CDKN2D	cyclin dependent kinase inhibitor 2D [Source:HGNC Symbol;Acc:HGNC:1790]	367	-0.87	0.0995	-8.8	1.7E-18	1.3E-17
ENSG00000158869	FCER1G	Fc fragment of IgE receptor Ig [Source:HGNC Symbol;Acc:HGNC:3611]	63	-2.36	0.2694	-8.8	1.7E-18	1.3E-17

ENSG00000135454	B4GALNT1	beta-1,4-N-acetyl-galactosaminyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:4117]	702	-0.67	0.0761	-8.8	1.7E-18	1.3E-17
ENSG00000110429	FBXO3	F-box protein 3 [Source:HGNC Symbol;Acc:HGNC:13582]	937	-0.56	0.0640	-8.8	1.9E-18	1.5E-17
ENSG00000171476	HOPX	HOP homeobox [Source:HGNC Symbol;Acc:HGNC:24961]	43	-3.37	0.3842	-8.8	2.0E-18	1.5E-17
ENSG00000079482	OPHN1	oligophrenin 1 [Source:HGNC Symbol;Acc:HGNC:8148]	667	-0.64	0.0734	-8.8	2.1E-18	1.6E-17
ENSG00000100365	NCF4	neutrophil cytosolic factor 4 [Source:HGNC Symbol;Acc:HGNC:7662]	146	-1.44	0.1644	-8.7	2.1E-18	1.7E-17
ENSG00000120318	ARAP3	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 3 [Source:HGNC Symbol;Acc:HGNC:24097]	133	-1.50	0.1713	-8.7	2.2E-18	1.7E-17
ENSG00000179163	FUCA1	alpha-L-fucosidase 1 [Source:HGNC Symbol;Acc:HGNC:4006]	455	-0.83	0.0944	-8.7	2.4E-18	1.8E-17
ENSG00000129422	MTUS1	microtubule associated scaffold protein 1 [Source:HGNC Symbol;Acc:HGNC:29789]	363	-0.89	0.1023	-8.7	2.5E-18	1.9E-17
ENSG00000165097	KDM1B	lysine demethylase 1B [Source:HGNC Symbol;Acc:HGNC:21577]	999	-0.55	0.0630	-8.7	2.5E-18	1.9E-17
ENSG00000204304	PBX2	PBX homeobox 2 [Source:HGNC Symbol;Acc:HGNC:8633]	1037	-0.54	0.0619	-8.7	2.8E-18	2.2E-17
ENSG00000128923	MINDY2	MINDY lysine 48 deubiquitinase 2 [Source:HGNC Symbol;Acc:HGNC:26954]	1275	-0.54	0.0614	-8.7	2.9E-18	2.3E-17
ENSG00000177842	ZNF620	zinc finger protein 620 [Source:HGNC Symbol;Acc:HGNC:28742]	93	-1.88	0.2155	-8.7	3.0E-18	2.3E-17
ENSG00000240891	PLCXD2	phosphatidylinositol specific phospholipase C X domain containing 2 [Source:HGNC Symbol;Acc:HGNC:2	119	-1.61	0.1854	-8.7	3.1E-18	2.4E-17
ENSG00000165092	ALDH1A1	aldehyde dehydrogenase 1 family member A1 [Source:HGNC Symbol;Acc:HGNC:402]	45	-3.16	0.3625	-8.7	3.1E-18	2.4E-17
ENSG00000189127	ANKRD34B	ankyrin repeat domain 34B [Source:HGNC Symbol;Acc:HGNC:33736]	148	-1.37	0.1572	-8.7	3.2E-18	2.4E-17
ENSG00000100604	CHGA	chromogranin A [Source:HGNC Symbol;Acc:HGNC:1929]	109	-1.63	0.1879	-8.7	3.4E-18	2.6E-17
ENSG00000164758	MED30	mediator complex subunit 30 [Source:HGNC Symbol;Acc:HGNC:23032]	471	-0.76	0.0876	-8.7	3.6E-18	2.7E-17
ENSG00000142677	IL22RA1	interleukin 22 receptor subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:13700]	166	-1.34	0.1546	-8.7	3.6E-18	2.8E-17
ENSG00000169752	NRG4	neuregulin 4 [Source:HGNC Symbol;Acc:HGNC:29862]	44	-3.26	0.3758	-8.7	3.7E-18	2.9E-17
ENSG00000211455	STK38L	serine/threonine kinase 38 like [Source:HGNC Symbol;Acc:HGNC:17848]	780	-0.60	0.0686	-8.7	3.9E-18	3.0E-17
ENSG00000171843	MLLT3	MLLT3 super elongation complex subunit [Source:HGNC Symbol;Acc:HGNC:7136]	344	-0.90	0.1041	-8.7	4.4E-18	3.4E-17
ENSG00000118785	SPP1	secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:HGNC:11255]	704	-2.40	0.2766	-8.7	4.6E-18	3.5E-17
ENSG00000006377	DLX6	distal-less homeobox 6 [Source:HGNC Symbol;Acc:HGNC:2919]	214	-1.18	0.1362	-8.7	4.8E-18	3.7E-17
ENSG00000101190	TCFL5	transcription factor like 5 [Source:HGNC Symbol;Acc:HGNC:11646]	664	-0.66	0.0767	-8.6	5.2E-18	4.0E-17
ENSG00000179023	KLHDC7A	kelch domain containing 7A [Source:HGNC Symbol;Acc:HGNC:26791]	122	-1.56	0.1801	-8.6	5.3E-18	4.0E-17
ENSG00000161513	FDXR	ferredoxin reductase [Source:HGNC Symbol;Acc:HGNC:3642]	444	-0.77	0.0894	-8.6	5.7E-18	4.3E-17
ENSG00000068137	PLEKHH3	pleckstrin homology, MyTH4 and FERM domain containing H3 [Source:HGNC Symbol;Acc:HGNC:26105]	974	-0.56	0.0654	-8.6	6.2E-18	4.7E-17
ENSG00000124160	NCOA5	nuclear receptor coactivator 5 [Source:HGNC Symbol;Acc:HGNC:15909]	1346	-0.51	0.0586	-8.6	7.0E-18	5.3E-17
ENSG00000133935	ERG28	ergosterol biosynthesis 28 homolog [Source:HGNC Symbol;Acc:HGNC:1187]	1500	-0.52	0.0605	-8.6	7.3E-18	5.5E-17
ENSG00000148459	PDSS1	decaprenyl diphosphate synthase subunit 1 [Source:HGNC Symbol;Acc:HGNC:17759]	341	-0.88	0.1020	-8.6	7.6E-18	5.7E-17
ENSG00000181045	SLC26A11	solute carrier family 26 member 11 [Source:HGNC Symbol;Acc:HGNC:14471]	497	-0.77	0.0890	-8.6	7.8E-18	5.9E-17
ENSG00000107984	DKK1	dickkopf WNT signaling pathway inhibitor 1 [Source:HGNC Symbol;Acc:HGNC:2891]	488	-0.75	0.0870	-8.6	8.4E-18	6.3E-17
ENSG00000101197	BIRC7	baculoviral IAP repeat containing 7 [Source:HGNC Symbol;Acc:HGNC:13702]	48	-3.08	0.3589	-8.6	8.9E-18	6.7E-17
ENSG00000085563	ABCB1	ATP binding cassette subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:40]	48	-3.02	0.3516	-8.6	9.0E-18	6.7E-17
ENSG00000178814	OPLAH	5-oxoprolinase, ATP-hydrolysing [Source:HGNC Symbol;Acc:HGNC:8149]	626	-0.66	0.0772	-8.6	9.1E-18	6.8E-17
ENSG00000119397	CNTRL	centriolin [Source:HGNC Symbol;Acc:HGNC:1858]	421	-0.79	0.0922	-8.6	9.6E-18	7.2E-17
ENSG00000156959	LHFPL4	LHFPL tetraspan subfamily member 4 [Source:HGNC Symbol;Acc:HGNC:29568]	159	-5.89	0.6868	-8.6	1.0E-17	7.5E-17
ENSG00000106415	GLCCI1	glucocorticoid induced 1 [Source:HGNC Symbol;Acc:HGNC:18713]	477	-0.74	0.0865	-8.6	1.0E-17	7.5E-17
ENSG00000170854	RIOX2	ribosomal oxygenase 2 [Source:HGNC Symbol;Acc:HGNC:19441]	1152	-0.52	0.0605	-8.6	1.0E-17	7.8E-17
ENSG00000130700	GATA5	GATA binding protein 5 [Source:HGNC Symbol;Acc:HGNC:15802]	84	-1.88	0.2190	-8.6	1.0E-17	7.8E-17
ENSG00000172403	SYNPO2	synaptopodin 2 [Source:HGNC Symbol;Acc:HGNC:17732]	157	-1.39	0.1618	-8.6	1.0E-17	7.8E-17
ENSG00000054983	GALC	galactosylceramidase [Source:HGNC Symbol;Acc:HGNC:4115]	862	-0.57	0.0664	-8.6	1.2E-17	9.0E-17

ENSG00000082146	STRADB	STE20 related adaptor beta [Source:HGNC Symbol;Acc:HGNC:13205]	312	-0.95	0.1112	-8.5	1.2E-17	9.3E-17
ENSG00000181790	ADGRB1	adhesion G protein-coupled receptor B1 [Source:HGNC Symbol;Acc:HGNC:943]	80	-2.22	0.2596	-8.5	1.3E-17	9.4E-17
ENSG00000148120	AOPEP	aminopeptidase O (putative) [Source:HGNC Symbol;Acc:HGNC:1361]	1089	-0.54	0.0628	-8.5	1.4E-17	1.0E-16
ENSG00000186517	ARHGAP30	Rho GTPase activating protein 30 [Source:HGNC Symbol;Acc:HGNC:27414]	113	-1.75	0.2058	-8.5	1.8E-17	1.4E-16
ENSG00000183734	ASCL2	achaete-scute family bHLH transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:739]	86	-1.83	0.2153	-8.5	2.1E-17	1.6E-16
ENSG00000119979	DENND10	DENN domain containing 10 [Source:HGNC Symbol;Acc:HGNC:31793]	813	-0.57	0.0676	-8.5	2.3E-17	1.7E-16
ENSG00000165209	STRBP	spermatid perinuclear RNA binding protein [Source:HGNC Symbol;Acc:HGNC:16462]	946	-0.53	0.0628	-8.5	2.4E-17	1.7E-16
ENSG00000145335	SNCA	synuclein alpha [Source:HGNC Symbol;Acc:HGNC:11138]	38	-4.24	0.5008	-8.5	2.5E-17	1.8E-16
ENSG00000057704	TMCC3	transmembrane and coiled-coil domain family 3 [Source:HGNC Symbol;Acc:HGNC:29199]	593	-0.66	0.0776	-8.5	2.5E-17	1.9E-16
ENSG00000155760	FZD7	frizzled class receptor 7 [Source:HGNC Symbol;Acc:HGNC:4045]	527	-0.75	0.0885	-8.5	2.5E-17	1.9E-16
ENSG00000226067	LINC00623	long intergenic non-protein coding RNA 623 [Source:HGNC Symbol;Acc:HGNC:44252]	53	-2.55	0.3010	-8.5	2.6E-17	1.9E-16
ENSG00000129675	ARHGEF6	Rac/Cdc42 guanine nucleotide exchange factor 6 [Source:HGNC Symbol;Acc:HGNC:685]	75	-2.08	0.2463	-8.5	2.6E-17	1.9E-16
ENSG00000138395	CDK15	cyclin dependent kinase 15 [Source:HGNC Symbol;Acc:HGNC:14434]	51	-2.69	0.3183	-8.5	2.7E-17	1.9E-16
ENSG00000103490	PYCARD	PYD and CARD domain containing [Source:HGNC Symbol;Acc:HGNC:16608]	163	-1.31	0.1548	-8.5	2.7E-17	2.0E-16
ENSG00000230091	TMEM254-A	TMEM254 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:27340]	118	-1.50	0.1778	-8.5	2.7E-17	2.0E-16
ENSG00000006555	TTC22	tetratricopeptide repeat domain 22 [Source:HGNC Symbol;Acc:HGNC:26067]	421	-0.79	0.0934	-8.5	2.7E-17	2.0E-16
ENSG00000167528	ZNF641	zinc finger protein 641 [Source:HGNC Symbol;Acc:HGNC:31834]	442	-0.75	0.0883	-8.5	2.8E-17	2.0E-16
ENSG00000230445	LRRC37A6P	leucine rich repeat containing 37 member A6, pseudogene [Source:HGNC Symbol;Acc:HGNC:33746]	54	-2.59	0.3065	-8.5	2.8E-17	2.1E-16
ENSG00000169255	B3GALNT1	beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) [Source:HGNC Symbol;Acc:HGNC:10902]	391	-0.83	0.0987	-8.5	2.8E-17	2.1E-16
ENSG00000155926	SLA	Src like adaptor [Source:HGNC Symbol;Acc:HGNC:10902]	87	-2.07	0.2448	-8.5	2.9E-17	2.1E-16
ENSG00000140451	PIF1	PIF1 5'-to-3' DNA helicase [Source:HGNC Symbol;Acc:HGNC:26220]	324	-0.90	0.1067	-8.4	2.9E-17	2.1E-16
ENSG00000143409	MINDY1	MINDY lysine 48 deubiquitinase 1 [Source:HGNC Symbol;Acc:HGNC:25648]	315	-0.94	0.1118	-8.4	2.9E-17	2.1E-16
ENSG00000250256	ENSG00000250256	novel transcript	76	-7.19	0.8520	-8.4	3.1E-17	2.3E-16
ENSG00000203747	FCGR3A	Fc fragment of IgG receptor IIIa [Source:HGNC Symbol;Acc:HGNC:3619]	54	-2.77	0.3289	-8.4	3.5E-17	2.5E-16
ENSG00000139329	LUM	lumican [Source:HGNC Symbol;Acc:HGNC:6724]	56	-6.34	0.7531	-8.4	3.6E-17	2.6E-16
ENSG00000169031	COL4A3	collagen type IV alpha 3 chain [Source:HGNC Symbol;Acc:HGNC:2204]	50	-2.73	0.3237	-8.4	3.6E-17	2.6E-16
ENSG00000141527	CARD14	caspase recruitment domain family member 14 [Source:HGNC Symbol;Acc:HGNC:16446]	169	-1.22	0.1449	-8.4	3.8E-17	2.8E-16
ENSG00000123843	C4BPB	complement component 4 binding protein beta [Source:HGNC Symbol;Acc:HGNC:1328]	47	-2.96	0.3513	-8.4	3.8E-17	2.8E-16
ENSG00000205744	DENND1C	DENN domain containing 1C [Source:HGNC Symbol;Acc:HGNC:26225]	128	-1.50	0.1788	-8.4	3.9E-17	2.8E-16
ENSG00000176444	CLK2	CDC like kinase 2 [Source:HGNC Symbol;Acc:HGNC:2069]	520	-0.70	0.0838	-8.4	5.6E-17	4.0E-16
ENSG00000109205	ODAM	odontogenic, ameloblast associated [Source:HGNC Symbol;Acc:HGNC:26043]	38	-4.72	0.5657	-8.4	6.7E-17	4.8E-16
ENSG00000180011	ZADH2	zinc binding alcohol dehydrogenase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:28697]	444	-0.76	0.0905	-8.4	6.8E-17	4.9E-16
ENSG00000123338	NCKAP1L	NCK associated protein 1 like [Source:HGNC Symbol;Acc:HGNC:4862]	70	-2.22	0.2664	-8.3	7.3E-17	5.3E-16
ENSG00000102221	JADE3	jade family PHD finger 3 [Source:HGNC Symbol;Acc:HGNC:22982]	598	-0.64	0.0762	-8.3	7.6E-17	5.5E-16
ENSG00000157514	TSC22D3	TSC22 domain family member 3 [Source:HGNC Symbol;Acc:HGNC:3051]	407	-0.82	0.0983	-8.3	8.9E-17	6.4E-16
ENSG00000166169	POLL	DNA polymerase lambda [Source:HGNC Symbol;Acc:HGNC:9184]	438	-0.74	0.0893	-8.3	1.0E-16	7.1E-16
ENSG00000174684	B4GAT1	beta-1,4-glucuronyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:15685]	528	-0.73	0.0881	-8.3	1.0E-16	7.2E-16
ENSG00000139508	SLC46A3	solute carrier family 46 member 3 [Source:HGNC Symbol;Acc:HGNC:27501]	64	-2.28	0.2742	-8.3	1.0E-16	7.2E-16
ENSG00000065060	UHRF1BP1	UHRF1 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:21216]	912	-0.62	0.0748	-8.3	1.1E-16	7.5E-16
ENSG00000173898	SPTBN2	spectrin beta, non-erythrocytic 2 [Source:HGNC Symbol;Acc:HGNC:11276]	1131	-0.52	0.0630	-8.3	1.1E-16	7.8E-16
ENSG00000084676	NCOA1	nuclear receptor coactivator 1 [Source:HGNC Symbol;Acc:HGNC:7668]	978	-0.53	0.0638	-8.3	1.1E-16	8.1E-16
ENSG00000165138	ANKS6	ankyrin repeat and sterile alpha motif domain containing 6 [Source:HGNC Symbol;Acc:HGNC:26724]	1151	-0.50	0.0605	-8.3	1.2E-16	8.5E-16

ENSG00000107968	MAP3K8	mitogen-activated protein kinase kinase kinase 8 [Source:HGNC Symbol;Acc:HGNC:6860]	479	-0.71	0.0858	-8.3	1.5E-16	1.0E-15
ENSG00000164309	CMYA5	cardiomyopathy associated 5 [Source:HGNC Symbol;Acc:HGNC:14305]	96	-1.73	0.2091	-8.3	1.5E-16	1.1E-15
ENSG00000167895	TMC8	transmembrane channel like 8 [Source:HGNC Symbol;Acc:HGNC:20474]	84	-1.83	0.2223	-8.3	1.5E-16	1.1E-15
ENSG00000076826	CAMSAP3	calmodulin regulated spectrin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:29]	461	-0.77	0.0928	-8.3	1.5E-16	1.1E-15
ENSG00000151690	MFSD6	major facilitator superfamily domain containing 6 [Source:HGNC Symbol;Acc:HGNC:24711]	707	-0.61	0.0734	-8.2	1.6E-16	1.2E-15
ENSG00000172932	ANKRD13D	ankyrin repeat domain 13D [Source:HGNC Symbol;Acc:HGNC:27880]	576	-0.69	0.0832	-8.2	1.7E-16	1.2E-15
ENSG00000143816	WNT9A	Wnt family member 9A [Source:HGNC Symbol;Acc:HGNC:12778]	1421	-0.51	0.0614	-8.2	1.8E-16	1.3E-15
ENSG00000164604	GPR85	G protein-coupled receptor 85 [Source:HGNC Symbol;Acc:HGNC:4536]	40	-5.25	0.6377	-8.2	1.9E-16	1.4E-15
ENSG00000196739	COL27A1	collagen type XXVII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:22986]	54	-2.46	0.2986	-8.2	1.9E-16	1.4E-15
ENSG00000163251	FZD5	frizzled class receptor 5 [Source:HGNC Symbol;Acc:HGNC:4043]	331	-0.93	0.1131	-8.2	1.9E-16	1.4E-15
ENSG00000118729	CASQ2	calsequestrin 2 [Source:HGNC Symbol;Acc:HGNC:1513]	94	-1.78	0.2168	-8.2	2.0E-16	1.4E-15
ENSG00000214796	TUBA5P	tubulin alpha 5, pseudogene [Source:HGNC Symbol;Acc:HGNC:54799]	224	-1.17	0.1423	-8.2	2.3E-16	1.6E-15
ENSG00000108691	CCL2	C-C motif chemokine ligand 2 [Source:HGNC Symbol;Acc:HGNC:10618]	111	-1.62	0.1977	-8.2	2.3E-16	1.7E-15
ENSG00000172031	EPHX4	epoxide hydrolase 4 [Source:HGNC Symbol;Acc:HGNC:23758]	62	-2.25	0.2740	-8.2	2.5E-16	1.7E-15
ENSG00000168280	KIF5C	kinesin family member 5C [Source:HGNC Symbol;Acc:HGNC:6325]	93	-1.68	0.2046	-8.2	2.6E-16	1.8E-15
ENSG00000170293	CMTM8	CKLF like MARVEL transmembrane domain containing 8 [Source:HGNC Symbol;Acc:HGNC:19179]	78	-1.91	0.2336	-8.2	2.6E-16	1.8E-15
ENSG00000132510	KDM6B	lysine demethylase 6B [Source:HGNC Symbol;Acc:HGNC:29012]	619	-0.66	0.0812	-8.2	2.7E-16	1.9E-15
ENSG00000203721	LINC00862	long intergenic non-protein coding RNA 862 [Source:HGNC Symbol;Acc:HGNC:21901]	67	-2.23	0.2724	-8.2	2.9E-16	2.0E-15
ENSG00000104880	ARHGEF18	Rho/Rac guanine nucleotide exchange factor 18 [Source:HGNC Symbol;Acc:HGNC:17090]	510	-0.73	0.0890	-8.2	3.0E-16	2.1E-15
ENSG00000176624	MEX3C	mex-3 RNA binding family member C [Source:HGNC Symbol;Acc:HGNC:28040]	897	-0.53	0.0644	-8.2	3.1E-16	2.1E-15
ENSG00000139354	GAS2L3	growth arrest specific 2 like 3 [Source:HGNC Symbol;Acc:HGNC:27475]	423	-0.78	0.0953	-8.2	3.1E-16	2.1E-15
ENSG00000091129	NRCAM	neuronal cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:7994]	93	-1.99	0.2433	-8.2	3.3E-16	2.3E-15
ENSG00000121964	GTDC1	glycosyltransferase like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:20887]	409	-0.76	0.0933	-8.1	3.7E-16	2.6E-15
ENSG00000132854	KANK4	KN motif and ankyrin repeat domains 4 [Source:HGNC Symbol;Acc:HGNC:27263]	985	-0.55	0.0672	-8.1	4.0E-16	2.8E-15
ENSG00000100100	PIK3IP1	phosphoinositide-3-kinase interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:24942]	79	-1.82	0.2232	-8.1	4.0E-16	2.8E-15
ENSG00000182487	NCF1B	neutrophil cytosolic factor 1B pseudogene [Source:HGNC Symbol;Acc:HGNC:32522]	61	-2.28	0.2800	-8.1	4.2E-16	2.9E-15
ENSG00000114770	ABCC5	ATP binding cassette subfamily C member 5 [Source:HGNC Symbol;Acc:HGNC:56]	592	-0.69	0.0854	-8.1	4.5E-16	3.1E-15
ENSG00000138028	CGREF1	cell growth regulator with EF-hand domain 1 [Source:HGNC Symbol;Acc:HGNC:16962]	67	-2.04	0.2510	-8.1	5.1E-16	3.5E-15
ENSG00000164692	COL1A2	collagen type I alpha 2 chain [Source:HGNC Symbol;Acc:HGNC:2198]	106	-1.86	0.2296	-8.1	5.5E-16	3.8E-15
ENSG00000163960	UBXN7	UBX domain protein 7 [Source:HGNC Symbol;Acc:HGNC:29119]	880	-0.53	0.0652	-8.1	5.6E-16	3.8E-15
ENSG00000078699	CBFA2T2	CBFA2/RUNX1 partner transcriptional co-repressor 2 [Source:HGNC Symbol;Acc:HGNC:1536]	862	-0.54	0.0663	-8.1	5.7E-16	3.9E-15
ENSG0000010610	CD4	CD4 molecule [Source:HGNC Symbol;Acc:HGNC:1678]	73	-1.98	0.2446	-8.1	5.7E-16	4.0E-15
ENSG00000104081	BMF	Bcl2 modifying factor [Source:HGNC Symbol;Acc:HGNC:24132]	464	-0.78	0.0970	-8.1	5.8E-16	4.0E-15
ENSG00000109956	B3GAT1	beta-1,3-glucuronyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:921]	47	-2.63	0.3245	-8.1	6.0E-16	4.1E-15
ENSG00000243069	ARHGEF26-A	ARHGEF26 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:41048]	36	-3.45	0.4266	-8.1	6.1E-16	4.2E-15
ENSG00000078142	PIK3C3	phosphatidylinositol 3-kinase catalytic subunit type 3 [Source:HGNC Symbol;Acc:HGNC:8974]	504	-0.70	0.0866	-8.1	6.3E-16	4.3E-15
ENSG00000071243	ING3	inhibitor of growth family member 3 [Source:HGNC Symbol;Acc:HGNC:14587]	453	-0.71	0.0882	-8.1	7.4E-16	5.1E-15
ENSG00000144847	IGSF11	immunoglobulin superfamily member 11 [Source:HGNC Symbol;Acc:HGNC:16669]	73	-1.91	0.2365	-8.1	7.4E-16	5.1E-15
ENSG00000161395	PGAP3	post-GPI attachment to proteins phospholipase 3 [Source:HGNC Symbol;Acc:HGNC:23719]	433	-0.72	0.0893	-8.1	7.6E-16	5.2E-15
ENSG00000196542	SPTSSB	serine palmitoyltransferase small subunit B [Source:HGNC Symbol;Acc:HGNC:24045]	48	-6.10	0.7567	-8.1	7.6E-16	5.2E-15
ENSG00000096006	CRISP3	cysteine rich secretory protein 3 [Source:HGNC Symbol;Acc:HGNC:16904]	47	-6.08	0.7548	-8.1	7.7E-16	5.2E-15
ENSG00000141579	ZNF750	zinc finger protein 750 [Source:HGNC Symbol;Acc:HGNC:25843]	62	-6.89	0.8549	-8.1	8.0E-16	5.5E-15

ENSG00000089820	ARHGAP4	Rho GTPase activating protein 4 [Source:HGNC Symbol;Acc:HGNC:674]	95	-1.61	0.2003	-8.0	8.4E-16	5.8E-15
ENSG00000006747	SCIN	scinderin [Source:HGNC Symbol;Acc:HGNC:21695]	125	-1.47	0.1822	-8.0	8.7E-16	5.9E-15
ENSG00000011465	DCN	decorin [Source:HGNC Symbol;Acc:HGNC:2705]	40	-3.26	0.4054	-8.0	9.2E-16	6.3E-15
ENSG00000169860	P2RY1	purinergic receptor P2Y1 [Source:HGNC Symbol;Acc:HGNC:8539]	38	-3.17	0.3943	-8.0	9.5E-16	6.5E-15
ENSG00000163257	DCAF16	DDB1 and CUL4 associated factor 16 [Source:HGNC Symbol;Acc:HGNC:25987]	1033	-0.52	0.0649	-8.0	9.7E-16	6.6E-15
ENSG00000080839	RBL1	RB transcriptional corepressor like 1 [Source:HGNC Symbol;Acc:HGNC:9893]	992	-0.51	0.0641	-8.0	1.0E-15	6.8E-15
ENSG00000090104	RGS1	regulator of G protein signaling 1 [Source:HGNC Symbol;Acc:HGNC:9991]	62	-2.39	0.2978	-8.0	1.0E-15	6.9E-15
ENSG00000177000	MTHFR	methylenetetrahydrofolate reductase [Source:HGNC Symbol;Acc:HGNC:7436]	684	-0.59	0.0733	-8.0	1.1E-15	7.7E-15
ENSG00000137411	VARS2	valyl-tRNA synthetase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:21642]	927	-0.56	0.0694	-8.0	1.1E-15	7.8E-15
ENSG00000162869	PPP1R21	protein phosphatase 1 regulatory subunit 21 [Source:HGNC Symbol;Acc:HGNC:30595]	402	-0.74	0.0922	-8.0	1.3E-15	8.9E-15
ENSG00000173705	SUSD5	sushi domain containing 5 [Source:HGNC Symbol;Acc:HGNC:29061]	563	-0.65	0.0810	-8.0	1.3E-15	8.9E-15
ENSG00000056998	GYG2	glycogenin 2 [Source:HGNC Symbol;Acc:HGNC:4700]	52	-2.39	0.2990	-8.0	1.4E-15	9.7E-15
ENSG00000179299	NSUN7	NOP2/Sun RNA methyltransferase family member 7 [Source:HGNC Symbol;Acc:HGNC:25857]	91	-1.70	0.2128	-8.0	1.4E-15	9.7E-15
ENSG00000170927	PKHD1	PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:HGNC Symbol;Acc:HGNC:9016]	70	-9.52	1.1927	-8.0	1.5E-15	9.9E-15
ENSG00000124813	RUNX2	RUNX family transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:10472]	190	-1.13	0.1415	-8.0	1.5E-15	1.0E-14
ENSG00000173930	SLCO4C1	solute carrier organic anion transporter family member 4C1 [Source:HGNC Symbol;Acc:HGNC:23612]	34	-3.97	0.4982	-8.0	1.7E-15	1.1E-14
ENSG00000183625	CCR3	C-C motif chemokine receptor 3 [Source:HGNC Symbol;Acc:HGNC:1604]	298	-0.87	0.1097	-8.0	1.8E-15	1.2E-14
ENSG00000153093	ACOXL	acyl-CoA oxidase like [Source:HGNC Symbol;Acc:HGNC:25621]	202	-1.13	0.1425	-8.0	1.8E-15	1.2E-14
ENSG00000164654	MIOS	meiosis regulator for oocyte development [Source:HGNC Symbol;Acc:HGNC:21905]	905	-0.51	0.0638	-7.9	1.9E-15	1.3E-14
ENSG00000135119	RNFT2	ring finger protein, transmembrane 2 [Source:HGNC Symbol;Acc:HGNC:25905]	78	-1.82	0.2292	-7.9	2.3E-15	1.5E-14
ENSG00000158435	CNOT11	CCR4-NOT transcription complex subunit 11 [Source:HGNC Symbol;Acc:HGNC:25217]	1078	-0.55	0.0689	-7.9	2.3E-15	1.5E-14
ENSG00000100321	SYNGR1	synaptogyrin 1 [Source:HGNC Symbol;Acc:HGNC:11498]	775	-0.56	0.0707	-7.9	2.6E-15	1.7E-14
ENSG00000180353	HCLS1	hematopoietic cell-specific Lyn substrate 1 [Source:HGNC Symbol;Acc:HGNC:4844]	72	-2.01	0.2540	-7.9	2.6E-15	1.7E-14
ENSG00000114796	KLHL24	kelch like family member 24 [Source:HGNC Symbol;Acc:HGNC:25947]	243	-0.99	0.1249	-7.9	2.7E-15	1.8E-14
ENSG00000100167	SEPTIN3	septin 3 [Source:HGNC Symbol;Acc:HGNC:10750]	289	-0.90	0.1140	-7.9	3.0E-15	2.0E-14
ENSG00000115353	TACR1	tachykinin receptor 1 [Source:HGNC Symbol;Acc:HGNC:11526]	44	-2.75	0.3491	-7.9	3.0E-15	2.0E-14
ENSG00000120211	INSL4	insulin like 4 [Source:HGNC Symbol;Acc:HGNC:6087]	65	-9.41	1.1936	-7.9	3.1E-15	2.1E-14
ENSG00000271930	ENSG00000271930	novel transcript	42	-2.75	0.3498	-7.9	3.4E-15	2.2E-14
ENSG00000230798	FOXO3-AS1	FOXO3 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:40241]	58	-2.18	0.2774	-7.9	3.6E-15	2.4E-14
ENSG00000113657	DPYSL3	dihydropyrimidinase like 3 [Source:HGNC Symbol;Acc:HGNC:3015]	111	-1.69	0.2144	-7.9	3.8E-15	2.5E-14
ENSG00000105894	PTN	pleiotrophin [Source:HGNC Symbol;Acc:HGNC:9630]	68	-2.17	0.2763	-7.9	4.0E-15	2.6E-14
ENSG00000167987	VPS37C	VPS37C subunit of ESCRT-I [Source:HGNC Symbol;Acc:HGNC:26097]	903	-0.51	0.0648	-7.9	4.0E-15	2.6E-14
ENSG00000132915	PDE6A	phosphodiesterase 6A [Source:HGNC Symbol;Acc:HGNC:8785]	43	-2.76	0.3516	-7.8	4.7E-15	3.1E-14
ENSG00000156127	BATF	basic leucine zipper ATF-like transcription factor [Source:HGNC Symbol;Acc:HGNC:958]	34	-3.61	0.4613	-7.8	5.2E-15	3.4E-14
ENSG00000020181	ADGRA2	adhesion G protein-coupled receptor A2 [Source:HGNC Symbol;Acc:HGNC:17849]	158	-1.21	0.1550	-7.8	5.7E-15	3.7E-14
ENSG00000138640	FAM13A	family with sequence similarity 13 member A [Source:HGNC Symbol;Acc:HGNC:19367]	220	-1.02	0.1310	-7.8	6.0E-15	3.9E-14
ENSG00000133985	TTC9	tetratricopeptide repeat domain 9 [Source:HGNC Symbol;Acc:HGNC:20267]	627	-0.69	0.0889	-7.8	6.2E-15	4.1E-14
ENSG00000100767	PAPLN	papilin, proteoglycan like sulfated glycoprotein [Source:HGNC Symbol;Acc:HGNC:19262]	34	-3.54	0.4535	-7.8	6.4E-15	4.2E-14
ENSG00000101665	SMAD7	SMAD family member 7 [Source:HGNC Symbol;Acc:HGNC:6773]	602	-0.63	0.0803	-7.8	6.5E-15	4.3E-14
ENSG00000150625	GPM6A	glycoprotein M6A [Source:HGNC Symbol;Acc:HGNC:4460]	47	-2.73	0.3507	-7.8	6.5E-15	4.3E-14
ENSG00000119906	SLF2	SMC5-SMC6 complex localization factor 2 [Source:HGNC Symbol;Acc:HGNC:17814]	953	-0.50	0.0646	-7.8	7.3E-15	4.8E-14
ENSG00000150477	KIAA1328	KIAA1328 [Source:HGNC Symbol;Acc:HGNC:29248]	91	-1.76	0.2260	-7.8	7.3E-15	4.8E-14

ENSG00000135374	ELF5	E74 like ETS transcription factor 5 [Source:HGNC Symbol;Acc:HGNC:3320]	60	-9.28	1.1945	-7.8	7.7E-15	5.0E-14
ENSG00000147485	PXDNL	peroxidasin like [Source:HGNC Symbol;Acc:HGNC:26359]	53	-6.67	0.8591	-7.8	8.1E-15	5.2E-14
ENSG00000144355	DLX1	distal-less homeobox 1 [Source:HGNC Symbol;Acc:HGNC:2914]	381	-0.76	0.0985	-7.8	8.6E-15	5.6E-14
ENSG00000121310	ECHDC2	enoyl-CoA hydratase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23408]	645	-0.63	0.0809	-7.8	9.0E-15	5.8E-14
ENSG00000177432	NAP1L5	nucleosome assembly protein 1 like 5 [Source:HGNC Symbol;Acc:HGNC:19968]	189	-1.07	0.1386	-7.7	9.3E-15	6.1E-14
ENSG00000184611	KCNH7	potassium voltage-gated channel subfamily H member 7 [Source:HGNC Symbol;Acc:HGNC:18863]	32	-3.98	0.5140	-7.7	9.7E-15	6.3E-14
ENSG00000181908	LINC02724	long intergenic non-protein coding RNA 2724 [Source:HGNC Symbol;Acc:HGNC:54241]	41	-5.89	0.7608	-7.7	9.8E-15	6.3E-14
ENSG00000135074	ADAM19	ADAM metalloproteinase domain 19 [Source:HGNC Symbol;Acc:HGNC:197]	289	-0.86	0.1109	-7.7	1.0E-14	6.5E-14
ENSG00000180155	LYNX1	Ly6/neurotoxin 1 [Source:HGNC Symbol;Acc:HGNC:29604]	930	-0.53	0.0687	-7.7	1.0E-14	6.5E-14
ENSG00000178467	P4HTM	prolyl 4-hydroxylase, transmembrane [Source:HGNC Symbol;Acc:HGNC:28858]	578	-0.64	0.0832	-7.7	1.1E-14	7.0E-14
ENSG00000132688	NES	nestin [Source:HGNC Symbol;Acc:HGNC:7756]	86	-1.63	0.2113	-7.7	1.2E-14	7.5E-14
ENSG00000158301	GPRASP2	G protein-coupled receptor associated sorting protein 2 [Source:HGNC Symbol;Acc:HGNC:25169]	239	-1.00	0.1295	-7.7	1.2E-14	7.7E-14
ENSG00000177076	ACER2	alkaline ceramidase 2 [Source:HGNC Symbol;Acc:HGNC:23675]	70	-2.12	0.2751	-7.7	1.3E-14	8.2E-14
ENSG00000115361	ACADL	acyl-CoA dehydrogenase long chain [Source:HGNC Symbol;Acc:HGNC:88]	52	-6.64	0.8614	-7.7	1.3E-14	8.2E-14
ENSG00000115163	CENPA	centromere protein A [Source:HGNC Symbol;Acc:HGNC:1851]	749	-0.64	0.0834	-7.7	1.3E-14	8.3E-14
ENSG00000070182	SPTB	spectrin beta, erythrocytic [Source:HGNC Symbol;Acc:HGNC:11274]	40	-2.75	0.3569	-7.7	1.3E-14	8.3E-14
ENSG00000158856	DMTN	dematin actin binding protein [Source:HGNC Symbol;Acc:HGNC:3382]	200	-1.05	0.1362	-7.7	1.3E-14	8.3E-14
ENSG00000143033	MTF2	metal response element binding transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:29535]	764	-0.54	0.0701	-7.7	1.3E-14	8.6E-14
ENSG00000108852	MPP2	membrane palmitoylated protein 2 [Source:HGNC Symbol;Acc:HGNC:7220]	384	-0.75	0.0971	-7.7	1.4E-14	8.7E-14
ENSG00000198754	OXCT2	3-oxoacid CoA-transferase 2 [Source:HGNC Symbol;Acc:HGNC:18606]	33	-3.57	0.4641	-7.7	1.4E-14	9.3E-14
ENSG00000107957	SH3PX2A	SH3 and PX domains 2A [Source:HGNC Symbol;Acc:HGNC:23664]	731	-0.56	0.0723	-7.7	1.5E-14	9.7E-14
ENSG00000239713	APOBEC3G	apolipoprotein B mRNA editing enzyme catalytic subunit 3G [Source:HGNC Symbol;Acc:HGNC:17357]	348	-0.76	0.0998	-7.6	2.0E-14	1.3E-13
ENSG00000077713	SLC25A43	solute carrier family 25 member 43 [Source:HGNC Symbol;Acc:HGNC:30557]	545	-0.65	0.0854	-7.6	2.1E-14	1.4E-13
ENSG00000122512	PMS2	PMS1 homolog 2, mismatch repair system component [Source:HGNC Symbol;Acc:HGNC:9122]	867	-0.51	0.0666	-7.6	2.1E-14	1.4E-13
ENSG00000186806	VSIG10L	V-set and immunoglobulin domain containing 10 like [Source:HGNC Symbol;Acc:HGNC:27111]	469	-0.68	0.0895	-7.6	2.1E-14	1.4E-13
ENSG00000164938	TP53INP1	tumor protein p53 inducible nuclear protein 1 [Source:HGNC Symbol;Acc:HGNC:18022]	169	-1.16	0.1524	-7.6	2.2E-14	1.4E-13
ENSG00000075461	CACNG4	calcium voltage-gated channel auxiliary subunit gamma 4 [Source:HGNC Symbol;Acc:HGNC:1408]	887	-0.51	0.0662	-7.6	2.3E-14	1.5E-13
ENSG00000055163	CYFIP2	cytoplasmic FMR1 interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:13760]	41	-2.66	0.3489	-7.6	2.4E-14	1.5E-13
ENSG00000090539	CHRD	chordin [Source:HGNC Symbol;Acc:HGNC:1949]	47	-2.57	0.3373	-7.6	2.5E-14	1.6E-13
ENSG00000170465	KRT6C	keratin 6C [Source:HGNC Symbol;Acc:HGNC:20406]	39	-2.88	0.3773	-7.6	2.5E-14	1.6E-13
ENSG00000101417	PXMP4	peroxisomal membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:15920]	784	-0.52	0.0687	-7.6	2.6E-14	1.6E-13
ENSG00000165215	CLDN3	claudin 3 [Source:HGNC Symbol;Acc:HGNC:2045]	38	-2.84	0.3725	-7.6	2.6E-14	1.7E-13
ENSG00000021355	SERPINB1	serpin family B member 1 [Source:HGNC Symbol;Acc:HGNC:3311]	609	-0.62	0.0809	-7.6	2.6E-14	1.7E-13
ENSG00000206557	TRIM71	tripartite motif containing 71 [Source:HGNC Symbol;Acc:HGNC:32669]	30	-4.07	0.5355	-7.6	2.8E-14	1.8E-13
ENSG00000155761	SPAG17	sperm associated antigen 17 [Source:HGNC Symbol;Acc:HGNC:26620]	38	-2.80	0.3688	-7.6	2.8E-14	1.8E-13
ENSG00000247809	NR2F2-AS1	NR2F2 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:44222]	57	-2.05	0.2701	-7.6	2.9E-14	1.8E-13
ENSG00000116985	BMP8B	bone morphogenetic protein 8b [Source:HGNC Symbol;Acc:HGNC:1075]	91	-1.65	0.2168	-7.6	2.9E-14	1.8E-13
ENSG00000253313	C1orf210	chromosome 1 open reading frame 210 [Source:HGNC Symbol;Acc:HGNC:28755]	50	-2.31	0.3036	-7.6	2.9E-14	1.9E-13
ENSG00000162069	BICDL2	BICD family like cargo adaptor 2 [Source:HGNC Symbol;Acc:HGNC:33584]	187	-1.11	0.1464	-7.6	3.1E-14	1.9E-13
ENSG00000112787	FBRSL1	fibrosin like 1 [Source:HGNC Symbol;Acc:HGNC:29308]	863	-0.62	0.0813	-7.6	3.1E-14	2.0E-13
ENSG00000168067	MAP4K2	mitogen-activated protein kinase kinase kinase kinase 2 [Source:HGNC Symbol;Acc:HGNC:6864]	899	-0.51	0.0673	-7.6	3.2E-14	2.0E-13
ENSG00000137968	SLC44A5	solute carrier family 44 member 5 [Source:HGNC Symbol;Acc:HGNC:28524]	70	-1.87	0.2468	-7.6	3.6E-14	2.3E-13

ENSG00000247315	ZCCHC3	zinc finger CCHC-type containing 3 [Source:HGNC Symbol;Acc:HGNC:16230]	784	-0.54	0.0713	-7.6	3.8E-14	2.4E-13
ENSG00000171130	ATP6VOE2	ATPase H+ transporting V0 subunit e2 [Source:HGNC Symbol;Acc:HGNC:21723]	636	-0.59	0.0787	-7.6	4.1E-14	2.6E-13
ENSG00000137145	DENND4C	DENN domain containing 4C [Source:HGNC Symbol;Acc:HGNC:26079]	725	-0.55	0.0727	-7.6	4.1E-14	2.6E-13
ENSG00000140795	MYLK3	myosin light chain kinase 3 [Source:HGNC Symbol;Acc:HGNC:29826]	51	-2.21	0.2924	-7.6	4.3E-14	2.7E-13
ENSG00000070731	ST6GALNAC	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:10867]	182	-1.06	0.1410	-7.5	4.4E-14	2.8E-13
ENSG00000178075	GRAMD1C	GRAM domain containing 1C [Source:HGNC Symbol;Acc:HGNC:25252]	46	-2.38	0.3156	-7.5	4.5E-14	2.8E-13
ENSG00000115271	GCA	granulocystin [Source:HGNC Symbol;Acc:HGNC:15990]	343	-0.76	0.1012	-7.5	4.7E-14	3.0E-13
ENSG00000198771	RCSL1	RCSL domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28310]	62	-2.25	0.2983	-7.5	4.8E-14	3.0E-13
ENSG00000163220	S100A9	S100 calcium binding protein A9 [Source:HGNC Symbol;Acc:HGNC:10499]	5403	-0.57	0.0759	-7.5	4.9E-14	3.1E-13
ENSG00000150627	WDR17	WD repeat domain 17 [Source:HGNC Symbol;Acc:HGNC:16661]	84	-1.61	0.2139	-7.5	4.9E-14	3.1E-13
ENSG00000186469	GNG2	G protein subunit gamma 2 [Source:HGNC Symbol;Acc:HGNC:4404]	42	-2.81	0.3734	-7.5	5.0E-14	3.1E-13
ENSG00000154767	XPC	XPC complex subunit, DNA damage recognition and repair factor [Source:HGNC Symbol;Acc:HGNC:1281]	592	-0.60	0.0793	-7.5	5.1E-14	3.2E-13
ENSG00000151276	MAGI1	membrane associated guanylate kinase, WW and PDZ domain containing 1 [Source:HGNC Symbol;Acc:HGNC:10044]	723	-0.57	0.0763	-7.5	5.1E-14	3.2E-13
ENSG00000100441	KHNYN	KH and NYN domain containing [Source:HGNC Symbol;Acc:HGNC:20166]	757	-0.56	0.0744	-7.5	5.2E-14	3.3E-13
ENSG00000180667	YOD1	YOD1 deubiquitinase [Source:HGNC Symbol;Acc:HGNC:25035]	538	-0.66	0.0878	-7.5	5.4E-14	3.4E-13
ENSG00000140505	CYP1A2	cytochrome P450 family 1 subfamily A member 2 [Source:HGNC Symbol;Acc:HGNC:2596]	30	-4.60	0.6128	-7.5	6.5E-14	4.1E-13
ENSG00000123405	NFE2	nuclear factor, erythroid 2 [Source:HGNC Symbol;Acc:HGNC:7780]	91	-1.53	0.2042	-7.5	6.6E-14	4.2E-13
ENSG00000185432	METTL7A	methyltransferase like 7A [Source:HGNC Symbol;Acc:HGNC:24550]	664	-0.57	0.0766	-7.5	6.8E-14	4.2E-13
ENSG00000175182	FAM131A	family with sequence similarity 131 member A [Source:HGNC Symbol;Acc:HGNC:28308]	283	-0.86	0.1145	-7.5	6.9E-14	4.3E-13
ENSG00000178935	ZNF552	zinc finger protein 552 [Source:HGNC Symbol;Acc:HGNC:26135]	264	-0.88	0.1177	-7.4	9.5E-14	5.9E-13
ENSG00000197847	SLC22A20P	solute carrier family 22 member 20, pseudogene [Source:HGNC Symbol;Acc:HGNC:29867]	64	-1.90	0.2560	-7.4	1.0E-13	6.2E-13
ENSG00000135823	STX6	syntaxin 6 [Source:HGNC Symbol;Acc:HGNC:11441]	860	-0.55	0.0733	-7.4	1.0E-13	6.2E-13
ENSG00000140600	SH3GL3	SH3 domain containing GRB2 like 3, endophilin A3 [Source:HGNC Symbol;Acc:HGNC:10832]	37	-2.78	0.3738	-7.4	1.1E-13	6.5E-13
ENSG00000168811	IL12A	interleukin 12A [Source:HGNC Symbol;Acc:HGNC:5969]	68	-1.81	0.2435	-7.4	1.1E-13	6.5E-13
ENSG00000152779	SLC16A12	solute carrier family 16 member 12 [Source:HGNC Symbol;Acc:HGNC:23094]	31	-4.60	0.6192	-7.4	1.1E-13	6.6E-13
ENSG00000159167	STC1	stanniocalcin 1 [Source:HGNC Symbol;Acc:HGNC:11373]	688	-0.54	0.0725	-7.4	1.1E-13	6.8E-13
ENSG0000012171	SEMA3B	semaphorin 3B [Source:HGNC Symbol;Acc:HGNC:10724]	88	-1.53	0.2062	-7.4	1.1E-13	7.1E-13
ENSG00000101115	SALL4	spalt like transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:15924]	73	-1.72	0.2325	-7.4	1.2E-13	7.5E-13
ENSG00000119514	GALNT12	polypeptide N-acetylgalactosaminyltransferase 12 [Source:HGNC Symbol;Acc:HGNC:19877]	451	-0.73	0.0982	-7.4	1.2E-13	7.6E-13
ENSG00000182771	GRID1	glutamate ionotropic receptor delta type subunit 1 [Source:HGNC Symbol;Acc:HGNC:4575]	30	-4.55	0.6141	-7.4	1.2E-13	7.7E-13
ENSG00000260912	ENSG00000260912	novel transcript, overlapping ACER2	38	-2.67	0.3610	-7.4	1.3E-13	8.1E-13
ENSG00000117479	SLC19A2	solute carrier family 19 member 2 [Source:HGNC Symbol;Acc:HGNC:10938]	569	-0.60	0.0807	-7.4	1.3E-13	8.3E-13
ENSG00000198515	CNGA1	cyclic nucleotide gated channel subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:2148]	50	-2.25	0.3038	-7.4	1.3E-13	8.3E-13
ENSG00000172548	NIPAL4	NIPA like domain containing 4 [Source:HGNC Symbol;Acc:HGNC:28018]	31	-4.86	0.6567	-7.4	1.4E-13	8.4E-13
ENSG00000133246	PRAM1	PML-RARA regulated adaptor molecule 1 [Source:HGNC Symbol;Acc:HGNC:30091]	60	-2.09	0.2828	-7.4	1.4E-13	8.5E-13
ENSG00000197496	SLC2A10	solute carrier family 2 member 10 [Source:HGNC Symbol;Acc:HGNC:13444]	674	-0.54	0.0736	-7.4	1.4E-13	8.5E-13
ENSG00000196368	NUDT11	nudix hydrolase 11 [Source:HGNC Symbol;Acc:HGNC:18011]	45	-2.47	0.3348	-7.4	1.5E-13	9.5E-13
ENSG00000173226	IQCB1	IQ motif containing B1 [Source:HGNC Symbol;Acc:HGNC:28949]	378	-0.75	0.1018	-7.4	1.5E-13	9.5E-13
ENSG00000070759	TESK2	testis associated actin remodelling kinase 2 [Source:HGNC Symbol;Acc:HGNC:11732]	434	-0.69	0.0935	-7.4	1.6E-13	9.9E-13
ENSG00000089060	SLC8B1	solute carrier family 8 member B1 [Source:HGNC Symbol;Acc:HGNC:26175]	435	-0.68	0.0923	-7.4	1.7E-13	1.0E-12
ENSG00000136237	RAPGEF5	Rap guanine nucleotide exchange factor 5 [Source:HGNC Symbol;Acc:HGNC:16862]	87	-1.57	0.2134	-7.4	1.7E-13	1.1E-12
ENSG00000125648	SLC25A23	solute carrier family 25 member 23 [Source:HGNC Symbol;Acc:HGNC:19375]	708	-0.59	0.0797	-7.4	1.8E-13	1.1E-12

ENSG00000092067	CEBPE	CCAAT enhancer binding protein epsilon [Source:HGNC Symbol;Acc:HGNC:1836]	68	-2.11	0.2866	-7.4	1.8E-13	1.1E-12
ENSG00000163898	LIPH	lipase H [Source:HGNC Symbol;Acc:HGNC:18483]	876	-0.52	0.0709	-7.4	1.9E-13	1.2E-12
ENSG00000175352	NRIP3	nuclear receptor interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:1167]	69	-1.74	0.2371	-7.4	2.0E-13	1.2E-12
ENSG00000143333	RGS16	regulator of G protein signaling 16 [Source:HGNC Symbol;Acc:HGNC:9997]	49	-2.31	0.3143	-7.3	2.0E-13	1.2E-12
ENSG00000129534	MIS18BP1	MIS18 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:20190]	772	-0.52	0.0707	-7.3	2.1E-13	1.3E-12
ENSG00000116106	EPHA4	EPH receptor A4 [Source:HGNC Symbol;Acc:HGNC:3388]	338	-0.82	0.1119	-7.3	2.3E-13	1.4E-12
ENSG00000151468	CCDC3	coiled-coil domain containing 3 [Source:HGNC Symbol;Acc:HGNC:23813]	39	-2.78	0.3793	-7.3	2.4E-13	1.5E-12
ENSG00000151012	SLC7A11	solute carrier family 7 member 11 [Source:HGNC Symbol;Acc:HGNC:11059]	738	-0.54	0.0734	-7.3	2.6E-13	1.6E-12
ENSG00000148835	TAF5	TATA-box binding protein associated factor 5 [Source:HGNC Symbol;Acc:HGNC:11539]	242	-0.89	0.1220	-7.3	2.7E-13	1.6E-12
ENSG00000162882	HAAO	3-hydroxyanthranilate 3,4-dioxygenase [Source:HGNC Symbol;Acc:HGNC:4796]	101	-1.52	0.2083	-7.3	2.8E-13	1.7E-12
ENSG00000100033	PRODH	proline dehydrogenase 1 [Source:HGNC Symbol;Acc:HGNC:9453]	29	-4.00	0.5473	-7.3	2.8E-13	1.7E-12
ENSG00000215018	COL28A1	collagen type XXVIII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:22442]	42	-2.42	0.3316	-7.3	2.9E-13	1.7E-12
ENSG00000073464	CLCN4	chloride voltage-gated channel 4 [Source:HGNC Symbol;Acc:HGNC:2022]	241	-0.88	0.1201	-7.3	2.9E-13	1.7E-12
ENSG00000075340	ADD2	adducin 2 [Source:HGNC Symbol;Acc:HGNC:244]	177	-1.06	0.1452	-7.3	3.0E-13	1.8E-12
ENSG00000174839	DENND6A	DENN domain containing 6A [Source:HGNC Symbol;Acc:HGNC:26635]	471	-0.66	0.0906	-7.3	3.1E-13	1.8E-12
ENSG00000147231	RADX	RPA1 related single stranded DNA binding protein, X-linked [Source:HGNC Symbol;Acc:HGNC:25486]	34	-5.62	0.7705	-7.3	3.1E-13	1.8E-12
ENSG00000150471	ADGRL3	adhesion G protein-coupled receptor L3 [Source:HGNC Symbol;Acc:HGNC:20974]	28	-4.30	0.5902	-7.3	3.2E-13	1.9E-12
ENSG00000288066	ENSG00000288066	novel transcript, antisense to ARL5A	72	-1.74	0.2382	-7.3	3.2E-13	1.9E-12
ENSG00000125266	EFNB2	ephrin B2 [Source:HGNC Symbol;Acc:HGNC:3227]	44	-2.37	0.3253	-7.3	3.5E-13	2.1E-12
ENSG00000197632	SERPINB2	serpin family B member 2 [Source:HGNC Symbol;Acc:HGNC:8584]	29	-3.98	0.5485	-7.3	3.8E-13	2.3E-12
ENSG00000234840	LINC01239	long intergenic non-protein coding RNA 1239 [Source:HGNC Symbol;Acc:HGNC:49796]	41	-2.40	0.3310	-7.3	3.9E-13	2.3E-12
ENSG00000184160	ADRA2C	adrenoceptor alpha 2C [Source:HGNC Symbol;Acc:HGNC:283]	231	-0.97	0.1341	-7.2	4.2E-13	2.5E-12
ENSG00000269609	C10orf95-AS	C10orf95 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:45238]	239	-0.98	0.1352	-7.2	4.2E-13	2.5E-12
ENSG00000107242	PIP5K1B	phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:HGNC Symbol;Acc:HGNC:8995]	74	-8.63	1.1912	-7.2	4.2E-13	2.5E-12
ENSG00000091157	WDR7	WD repeat domain 7 [Source:HGNC Symbol;Acc:HGNC:13490]	314	-0.76	0.1050	-7.2	4.3E-13	2.6E-12
ENSG00000177125	ZBTB34	zinc finger and BTB domain containing 34 [Source:HGNC Symbol;Acc:HGNC:31446]	259	-0.83	0.1149	-7.2	5.5E-13	3.3E-12
ENSG00000237975	FLG-AS1	FLG antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:27913]	29	-3.46	0.4810	-7.2	6.4E-13	3.8E-12
ENSG00000107020	PLGRKT	plasminogen receptor with a C-terminal lysine [Source:HGNC Symbol;Acc:HGNC:23633]	307	-0.81	0.1129	-7.2	6.4E-13	3.8E-12
ENSG00000038945	MSR1	macrophage scavenger receptor 1 [Source:HGNC Symbol;Acc:HGNC:7376]	46	-2.36	0.3281	-7.2	6.6E-13	3.9E-12
ENSG00000095596	CYP26A1	cytochrome P450 family 26 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2603]	43	-2.38	0.3311	-7.2	7.2E-13	4.3E-12
ENSG00000143473	KCNH1	potassium voltage-gated channel subfamily H member 1 [Source:HGNC Symbol;Acc:HGNC:6250]	29	-5.03	0.7028	-7.2	8.2E-13	4.8E-12
ENSG00000205269	TMEM170B	transmembrane protein 170B [Source:HGNC Symbol;Acc:HGNC:34244]	165	-1.06	0.1478	-7.2	8.2E-13	4.8E-12
ENSG00000156398	SFXN2	sideroflexin 2 [Source:HGNC Symbol;Acc:HGNC:16086]	224	-0.90	0.1265	-7.2	8.5E-13	5.0E-12
ENSG00000128709	HOXD9	homeobox D9 [Source:HGNC Symbol;Acc:HGNC:5140]	107	-1.40	0.1963	-7.1	8.7E-13	5.1E-12
ENSG00000139531	SUOX	sulfite oxidase [Source:HGNC Symbol;Acc:HGNC:11460]	450	-0.65	0.0912	-7.1	9.0E-13	5.3E-12
ENSG00000106123	EPHB6	EPH receptor B6 [Source:HGNC Symbol;Acc:HGNC:3396]	75	-1.70	0.2377	-7.1	9.8E-13	5.7E-12
ENSG00000181061	HIGD1A	HIG1 hypoxia inducible domain family member 1A [Source:HGNC Symbol;Acc:HGNC:29527]	829	-0.53	0.0748	-7.1	9.8E-13	5.7E-12
ENSG00000135116	HRK	harakiri, BCL2 interacting protein [Source:HGNC Symbol;Acc:HGNC:5185]	298	-0.80	0.1127	-7.1	1.1E-12	6.4E-12
ENSG00000168038	ULK4	unc-51 like kinase 4 [Source:HGNC Symbol;Acc:HGNC:15784]	199	-0.95	0.1333	-7.1	1.1E-12	6.5E-12
ENSG00000132205	EMILIN2	elastin microfibril interfacier 2 [Source:HGNC Symbol;Acc:HGNC:19881]	100	-2.66	0.3741	-7.1	1.2E-12	6.8E-12
ENSG00000187764	SEMA4D	semaphorin 4D [Source:HGNC Symbol;Acc:HGNC:10732]	300	-0.76	0.1075	-7.1	1.2E-12	7.0E-12
ENSG00000003096	KLHL13	kelch like family member 13 [Source:HGNC Symbol;Acc:HGNC:22931]	32	-2.97	0.4178	-7.1	1.3E-12	7.4E-12

ENSG00000156273	BACH1	BTB domain and CNC homolog 1 [Source:HGNC Symbol;Acc:HGNC:935]	742	-0.53	0.0752	-7.1	1.3E-12	7.8E-12
ENSG00000109576	AADAT	aminoadipate aminotransferase [Source:HGNC Symbol;Acc:HGNC:17929]	362	-0.70	0.0992	-7.1	1.4E-12	7.9E-12
ENSG00000168078	PBK	PDZ binding kinase [Source:HGNC Symbol;Acc:HGNC:18282]	659	-0.52	0.0737	-7.1	1.4E-12	8.1E-12
ENSG00000149294	NCAM1	neural cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:7656]	47	-2.33	0.3289	-7.1	1.4E-12	8.1E-12
ENSG00000153898	MCOLN2	mucolipin TRP cation channel 2 [Source:HGNC Symbol;Acc:HGNC:13357]	29	-3.27	0.4619	-7.1	1.5E-12	8.5E-12
ENSG00000162542	TMCO4	transmembrane and coiled-coil domains 4 [Source:HGNC Symbol;Acc:HGNC:27393]	667	-0.55	0.0771	-7.1	1.5E-12	8.7E-12
ENSG00000107882	SUFU	SUFU negative regulator of hedgehog signaling [Source:HGNC Symbol;Acc:HGNC:16466]	452	-0.66	0.0933	-7.1	1.5E-12	9.0E-12
NA	38	NA	82	-1.59	0.2255	-7.1	1.6E-12	9.5E-12
ENSG00000116254	CHD5	chromodomain helicase DNA binding protein 5 [Source:HGNC Symbol;Acc:HGNC:16816]	395	-0.67	0.0953	-7.1	1.6E-12	9.6E-12
ENSG00000165804	ZNF219	zinc finger protein 219 [Source:HGNC Symbol;Acc:HGNC:13011]	267	-0.84	0.1195	-7.1	1.7E-12	9.6E-12
ENSG00000130590	SAMD10	sterile alpha motif domain containing 10 [Source:HGNC Symbol;Acc:HGNC:16129]	355	-0.71	0.1002	-7.1	1.7E-12	9.8E-12
ENSG00000130270	ATP8B3	ATPase phospholipid transporting 8B3 [Source:HGNC Symbol;Acc:HGNC:13535]	39	-2.48	0.3513	-7.1	1.7E-12	1.0E-11
ENSG00000132692	BCAN	brevican [Source:HGNC Symbol;Acc:HGNC:23059]	41	-2.39	0.3387	-7.1	1.8E-12	1.0E-11
ENSG00000243244	STON1	stonin 1 [Source:HGNC Symbol;Acc:HGNC:17003]	35	-2.60	0.3693	-7.0	2.0E-12	1.1E-11
ENSG00000114742	WDR48	WD repeat domain 48 [Source:HGNC Symbol;Acc:HGNC:30914]	655	-0.54	0.0770	-7.0	2.0E-12	1.1E-11
ENSG00000125462	MIR9-1HG	MIR9-1 host gene [Source:HGNC Symbol;Acc:HGNC:30780]	67	-1.90	0.2706	-7.0	2.1E-12	1.2E-11
ENSG00000072422	RHOBTB1	Rho related BTB domain containing 1 [Source:HGNC Symbol;Acc:HGNC:18738]	107	-1.30	0.1848	-7.0	2.4E-12	1.4E-11
ENSG00000133135	RNF128	ring finger protein 128 [Source:HGNC Symbol;Acc:HGNC:21153]	33	-8.44	1.2076	-7.0	2.8E-12	1.6E-11
ENSG00000182557	SPNS3	sphingolipid transporter 3 (putative) [Source:HGNC Symbol;Acc:HGNC:28433]	31	-2.92	0.4185	-7.0	2.9E-12	1.6E-11
ENSG00000174792	ODAPH	odontogenesis associated phosphoprotein [Source:HGNC Symbol;Acc:HGNC:26300]	90	-1.42	0.2032	-7.0	2.9E-12	1.7E-11
ENSG00000088386	SLC15A1	solute carrier family 15 member 1 [Source:HGNC Symbol;Acc:HGNC:10920]	26	-4.15	0.5946	-7.0	3.0E-12	1.7E-11
ENSG00000069020	MAST4	microtubule associated serine/threonine kinase family member 4 [Source:HGNC Symbol;Acc:HGNC:190	295	-0.79	0.1132	-7.0	3.0E-12	1.7E-11
ENSG00000073605	GSDMB	gasdermin B [Source:HGNC Symbol;Acc:HGNC:23690]	155	-1.07	0.1534	-7.0	3.1E-12	1.8E-11
ENSG00000102547	CAB39L	calcium binding protein 39 like [Source:HGNC Symbol;Acc:HGNC:20290]	159	-1.04	0.1485	-7.0	3.1E-12	1.8E-11
ENSG00000242193	CRYZL2P	crystallin zeta like 2, pseudogene [Source:HGNC Symbol;Acc:HGNC:52164]	172	-1.02	0.1465	-7.0	3.1E-12	1.8E-11
ENSG00000115008	IL1A	interleukin 1 alpha [Source:HGNC Symbol;Acc:HGNC:5991]	27	-3.70	0.5311	-7.0	3.2E-12	1.8E-11
ENSG00000108984	MAP2K6	mitogen-activated protein kinase kinase 6 [Source:HGNC Symbol;Acc:HGNC:6846]	161	-1.04	0.1496	-7.0	3.3E-12	1.9E-11
ENSG00000118156	ZNF541	zinc finger protein 541 [Source:HGNC Symbol;Acc:HGNC:25294]	76	-1.54	0.2206	-7.0	3.3E-12	1.9E-11
ENSG00000151092	NGLY1	N-glycanase 1 [Source:HGNC Symbol;Acc:HGNC:17646]	598	-0.57	0.0820	-7.0	3.4E-12	1.9E-11
ENSG00000182264	IZUMO1	izumo sperm-egg fusion 1 [Source:HGNC Symbol;Acc:HGNC:28539]	40	-2.60	0.3742	-7.0	3.6E-12	2.0E-11
ENSG00000035664	DAPK2	death associated protein kinase 2 [Source:HGNC Symbol;Acc:HGNC:2675]	168	-1.07	0.1533	-6.9	3.7E-12	2.1E-11
ENSG00000163013	FBXO41	F-box protein 41 [Source:HGNC Symbol;Acc:HGNC:29409]	686	-0.51	0.0727	-6.9	3.7E-12	2.1E-11
ENSG00000132965	ALOX5AP	arachidonate 5-lipoxygenase activating protein [Source:HGNC Symbol;Acc:HGNC:436]	233	-2.34	0.3381	-6.9	4.3E-12	2.5E-11
ENSG00000177575	CD163	CD163 molecule [Source:HGNC Symbol;Acc:HGNC:1631]	192	-2.07	0.2984	-6.9	4.4E-12	2.5E-11
ENSG000000174567	GOLT1A	golgi transport 1A [Source:HGNC Symbol;Acc:HGNC:24766]	30	-2.94	0.4252	-6.9	4.4E-12	2.5E-11
ENSG00000226363	HAGLROS	HAGLR opposite strand lncRNA [Source:HGNC Symbol;Acc:HGNC:50646]	52	-2.06	0.2978	-6.9	4.5E-12	2.6E-11
ENSG00000136010	ALDH1L2	aldehyde dehydrogenase 1 family member L2 [Source:HGNC Symbol;Acc:HGNC:26777]	408	-0.67	0.0971	-6.9	4.6E-12	2.6E-11
ENSG00000165782	PIP4P1	phosphatidylinositol-4,5-bisphosphate 4-phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:19299]	570	-0.62	0.0893	-6.9	5.0E-12	2.8E-11
ENSG00000130595	TNNT3	troponin T3, fast skeletal type [Source:HGNC Symbol;Acc:HGNC:11950]	31	-8.35	1.2096	-6.9	5.1E-12	2.9E-11
ENSG00000162931	TRIM17	tripartite motif containing 17 [Source:HGNC Symbol;Acc:HGNC:13430]	41	-2.32	0.3364	-6.9	5.2E-12	2.9E-11
ENSG00000137135	ARHGEF39	Rho guanine nucleotide exchange factor 39 [Source:HGNC Symbol;Acc:HGNC:25909]	453	-0.66	0.0953	-6.9	5.6E-12	3.2E-11
ENSG00000102174	PHEX	phosphate regulating endopeptidase homolog X-linked [Source:HGNC Symbol;Acc:HGNC:8918]	101	-1.31	0.1901	-6.9	5.7E-12	3.2E-11

ENSG00000099251	HSD17B7P2	hydroxysteroid 17-beta dehydrogenase 7 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:28120]	50	-2.05	0.2979	-6.9	6.0E-12	3.3E-11
ENSG00000177990	DPY19L2	dpy-19 like 2 [Source:HGNC Symbol;Acc:HGNC:19414]	27	-3.27	0.4758	-6.9	6.0E-12	3.4E-11
ENSG00000188921	HACD4	3-hydroxyacyl-CoA dehydratase 4 [Source:HGNC Symbol;Acc:HGNC:20920]	67	-1.81	0.2636	-6.9	6.0E-12	3.4E-11
ENSG00000069482	GAL	galanin and GMAP prepropeptide [Source:HGNC Symbol;Acc:HGNC:4114]	94	-1.41	0.2048	-6.9	6.3E-12	3.5E-11
ENSG00000173110	HSPA6	heat shock protein family A (Hsp70) member 6 [Source:HGNC Symbol;Acc:HGNC:5239]	205	-1.98	0.2884	-6.9	6.3E-12	3.5E-11
ENSG00000165475	CRYL1	crystallin lambda 1 [Source:HGNC Symbol;Acc:HGNC:18246]	61	-1.73	0.2519	-6.9	6.3E-12	3.6E-11
ENSG00000110195	FOLR1	folate receptor alpha [Source:HGNC Symbol;Acc:HGNC:3791]	56	-8.22	1.1963	-6.9	6.4E-12	3.6E-11
ENSG00000073670	ADAM11	ADAM metallopeptidase domain 11 [Source:HGNC Symbol;Acc:HGNC:189]	172	-1.00	0.1450	-6.9	6.6E-12	3.7E-11
ENSG00000158457	TSPAN33	tetraspanin 33 [Source:HGNC Symbol;Acc:HGNC:28743]	239	-0.84	0.1225	-6.9	7.0E-12	3.9E-11
ENSG00000198018	ENTPD7	ectonucleoside triphosphate diphosphohydrolase 7 [Source:HGNC Symbol;Acc:HGNC:19745]	625	-0.56	0.0815	-6.9	7.0E-12	3.9E-11
ENSG00000183826	BTBD9	BTB domain containing 9 [Source:HGNC Symbol;Acc:HGNC:21228]	395	-0.66	0.0967	-6.9	7.2E-12	4.0E-11
ENSG00000185633	NDUFA4L2	NDUFA4 mitochondrial complex associated like 2 [Source:HGNC Symbol;Acc:HGNC:29836]	81	-1.59	0.2324	-6.8	7.4E-12	4.1E-11
ENSG00000221869	CEBPD	CCAAT enhancer binding protein delta [Source:HGNC Symbol;Acc:HGNC:1835]	713	-0.51	0.0746	-6.8	7.8E-12	4.3E-11
ENSG00000054392	HHAT	hedgehog acyltransferase [Source:HGNC Symbol;Acc:HGNC:18270]	63	-1.69	0.2470	-6.8	7.9E-12	4.4E-11
ENSG00000267534	S1PR2	sphingosine-1-phosphate receptor 2 [Source:HGNC Symbol;Acc:HGNC:3169]	238	-0.87	0.1277	-6.8	8.8E-12	4.9E-11
ENSG00000156966	B3GNT7	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7 [Source:HGNC Symbol;Acc:HGNC:188]	140	-1.15	0.1690	-6.8	9.0E-12	5.0E-11
ENSG00000177685	CRACR2B	calcium release activated channel regulator 2B [Source:HGNC Symbol;Acc:HGNC:28703]	55	-1.92	0.2816	-6.8	9.4E-12	5.2E-11
ENSG00000143971	ETAA1	ETAA1 activator of ATR kinase [Source:HGNC Symbol;Acc:HGNC:24648]	698	-0.51	0.0750	-6.8	9.8E-12	5.4E-11
ENSG00000184060	ADAP2	ArfGAP with dual PH domains 2 [Source:HGNC Symbol;Acc:HGNC:16487]	51	-2.03	0.2986	-6.8	9.8E-12	5.4E-11
ENSG00000135063	FAM189A2	family with sequence similarity 189 member A2 [Source:HGNC Symbol;Acc:HGNC:24820]	173	-0.98	0.1439	-6.8	9.9E-12	5.5E-11
ENSG00000173040	EVC2	EvC ciliary complex subunit 2 [Source:HGNC Symbol;Acc:HGNC:19747]	25	-3.60	0.5296	-6.8	1.0E-11	5.5E-11
ENSG00000105851	PIK3CG	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma [Source:HGNC Symbol;Acc:HGNC:10921]	48	-2.10	0.3083	-6.8	1.0E-11	5.5E-11
ENSG00000109667	SLC2A9	solute carrier family 2 member 9 [Source:HGNC Symbol;Acc:HGNC:13446]	53	-1.89	0.2775	-6.8	1.0E-11	5.6E-11
ENSG00000253266	ENSG00000253266	novel transcript	81	-1.44	0.2114	-6.8	1.1E-11	6.2E-11
ENSG00000164465	DCBLD1	discoidin, CUB and LCCL domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21479]	405	-0.68	0.1008	-6.8	1.2E-11	6.5E-11
ENSG00000166845	C18orf54	chromosome 18 open reading frame 54 [Source:HGNC Symbol;Acc:HGNC:13796]	338	-0.70	0.1032	-6.8	1.2E-11	6.8E-11
ENSG00000213062	ENSG00000213062	novel transcript	142	-1.12	0.1658	-6.8	1.3E-11	6.9E-11
ENSG00000139835	GRTP1	growth hormone regulated TBC protein 1 [Source:HGNC Symbol;Acc:HGNC:20310]	243	-0.83	0.1229	-6.8	1.3E-11	7.2E-11
ENSG00000198598	MMP17	matrix metallopeptidase 17 [Source:HGNC Symbol;Acc:HGNC:7163]	104	-1.30	0.1926	-6.8	1.4E-11	7.5E-11
ENSG00000165617	DACT1	dishevelled binding antagonist of beta catenin 1 [Source:HGNC Symbol;Acc:HGNC:17748]	65	-1.84	0.2717	-6.8	1.4E-11	7.5E-11
ENSG00000044524	EPHA3	EPH receptor A3 [Source:HGNC Symbol;Acc:HGNC:3387]	47	-7.07	1.0467	-6.8	1.4E-11	8.0E-11
ENSG00000066248	NGEF	neuronal guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:7807]	255	-0.79	0.1177	-6.8	1.5E-11	8.0E-11
ENSG00000158050	DUSP2	dual specificity phosphatase 2 [Source:HGNC Symbol;Acc:HGNC:3068]	30	-2.84	0.4204	-6.7	1.5E-11	8.2E-11
ENSG00000163406	SLC15A2	solute carrier family 15 member 2 [Source:HGNC Symbol;Acc:HGNC:10921]	36	-2.58	0.3823	-6.7	1.5E-11	8.3E-11
ENSG00000238105	GOLGA2P5	GOLGA2 pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:25315]	165	-0.99	0.1471	-6.7	1.5E-11	8.3E-11
ENSG00000174599	TRAM1L1	translocation associated membrane protein 1 like 1 [Source:HGNC Symbol;Acc:HGNC:28371]	25	-3.39	0.5020	-6.7	1.5E-11	8.4E-11
ENSG00000128965	CHAC1	ChaC glutathione specific gamma-glutamylcyclotransferase 1 [Source:HGNC Symbol;Acc:HGNC:28680]	289	-0.75	0.1120	-6.7	1.6E-11	8.8E-11
ENSG00000226125	LINC01907	long intergenic non-protein coding RNA 1907 [Source:HGNC Symbol;Acc:HGNC:52726]	87	-1.46	0.2170	-6.7	1.6E-11	9.0E-11
ENSG00000155659	VSIG4	V-set and immunoglobulin domain containing 4 [Source:HGNC Symbol;Acc:HGNC:17032]	45	-2.02	0.3007	-6.7	1.7E-11	9.4E-11
ENSG00000100867	DHRS2	dehydrogenase/reductase 2 [Source:HGNC Symbol;Acc:HGNC:18349]	235	-0.85	0.1264	-6.7	1.7E-11	9.5E-11
ENSG00000249116	IRX4-AS1	IRX4 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:40305]	25	-3.47	0.5167	-6.7	1.8E-11	9.6E-11
ENSG00000139687	RB1	RB transcriptional corepressor 1 [Source:HGNC Symbol;Acc:HGNC:9884]	578	-0.57	0.0847	-6.7	1.8E-11	9.7E-11

ENSG00000178568	ERBB4	erb-b2 receptor tyrosine kinase 4 [Source:HGNC Symbol;Acc:HGNC:3432]	50	-8.06	1.1994	-6.7	1.8E-11	9.9E-11
ENSG00000227471	AKR1B15	aldo-keto reductase family 1 member B15 [Source:HGNC Symbol;Acc:HGNC:37281]	77	-1.55	0.2312	-6.7	1.9E-11	1.0E-10
ENSG00000149564	ESAM	endothelial cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:17474]	79	-1.50	0.2236	-6.7	2.0E-11	1.1E-10
ENSG00000105755	ETHE1	ETHE1 persulfide dioxygenase [Source:HGNC Symbol;Acc:HGNC:23287]	417	-0.64	0.0952	-6.7	2.1E-11	1.1E-10
ENSG00000167614	TTYH1	tweety family member 1 [Source:HGNC Symbol;Acc:HGNC:13476]	56	-1.77	0.2639	-6.7	2.1E-11	1.2E-10
ENSG00000147889	CDKN2A	cyclin dependent kinase inhibitor 2A [Source:HGNC Symbol;Acc:HGNC:1787]	32	-2.77	0.4137	-6.7	2.1E-11	1.2E-10
ENSG00000266278	LINC01910	long intergenic non-protein coding RNA 1910 [Source:HGNC Symbol;Acc:HGNC:52729]	139	-1.08	0.1606	-6.7	2.2E-11	1.2E-10
ENSG00000087842	PIR	pirin [Source:HGNC Symbol;Acc:HGNC:30048]	261	-0.79	0.1177	-6.7	2.2E-11	1.2E-10
ENSG00000136286	MYO1G	myosin IG [Source:HGNC Symbol;Acc:HGNC:13880]	54	-1.83	0.2733	-6.7	2.2E-11	1.2E-10
ENSG00000080166	DCT	dopachrome tautomerase [Source:HGNC Symbol;Acc:HGNC:2709]	53	-2.01	0.3001	-6.7	2.3E-11	1.2E-10
ENSG00000230183	CNOT6LP1	CNOT6L pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:32355]	68	-1.71	0.2562	-6.7	2.4E-11	1.3E-10
ENSG00000279141	LINC01451	long intergenic non-protein coding RNA 1451 [Source:NCBI gene (formerly Entrezgene);Acc:401561]	26	-5.21	0.7806	-6.7	2.4E-11	1.3E-10
ENSG00000267325	LINC01415	long intergenic non-protein coding RNA 1415 [Source:HGNC Symbol;Acc:HGNC:50709]	27	-3.47	0.5197	-6.7	2.6E-11	1.4E-10
ENSG00000064218	DMRT3	doublesex and mab-3 related transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:13909]	25	-3.46	0.5197	-6.7	2.9E-11	1.6E-10
ENSG00000008853	RHOBTB2	Rho related BTB domain containing 2 [Source:HGNC Symbol;Acc:HGNC:18756]	374	-0.67	0.1003	-6.7	2.9E-11	1.6E-10
ENSG00000231131	LNCAROD	lncRNA activating regulator of DKK1 [Source:HGNC Symbol;Acc:HGNC:50913]	24	-4.47	0.6728	-6.6	3.0E-11	1.6E-10
ENSG00000111752	PHC1	polyhomeotic homolog 1 [Source:HGNC Symbol;Acc:HGNC:3182]	402	-0.62	0.0937	-6.6	3.0E-11	1.6E-10
ENSG00000162738	VANGL2	VANGL planar cell polarity protein 2 [Source:HGNC Symbol;Acc:HGNC:15511]	579	-0.53	0.0804	-6.6	3.1E-11	1.7E-10
ENSG00000101336	HCK	HCK proto-oncogene, Src family tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:4840]	37	-2.35	0.3536	-6.6	3.2E-11	1.7E-10
ENSG00000166347	CYB5A	cytochrome b5 type A [Source:HGNC Symbol;Acc:HGNC:2570]	363	-0.64	0.0970	-6.6	3.2E-11	1.7E-10
ENSG00000165124	SVEP1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29994]	421	-0.60	0.0912	-6.6	3.5E-11	1.8E-10
ENSG00000198092	TMPRSS11F	transmembrane serine protease 11F [Source:HGNC Symbol;Acc:HGNC:29994]	30	-5.83	0.8795	-6.6	3.5E-11	1.9E-10
ENSG00000152749	GPR180	G protein-coupled receptor 180 [Source:HGNC Symbol;Acc:HGNC:28899]	328	-0.70	0.1060	-6.6	3.6E-11	1.9E-10
ENSG00000018280	SLC11A1	solute carrier family 11 member 1 [Source:HGNC Symbol;Acc:HGNC:10907]	74	-1.53	0.2313	-6.6	3.6E-11	1.9E-10
ENSG00000137261	KIAA0319	KIAA0319 [Source:HGNC Symbol;Acc:HGNC:21580]	60	-1.70	0.2563	-6.6	3.7E-11	2.0E-10
ENSG00000261104	ENSG00000261104	novel transcript	47	-2.26	0.3420	-6.6	3.8E-11	2.0E-10
ENSG00000232628	ENSG00000232628	novel transcript	59	-1.75	0.2650	-6.6	3.9E-11	2.1E-10
ENSG00000160999	SH2B2	SH2B adaptor protein 2 [Source:HGNC Symbol;Acc:HGNC:17381]	220	-0.89	0.1343	-6.6	4.0E-11	2.1E-10
ENSG00000198168	SVIP	small VCP interacting protein [Source:HGNC Symbol;Acc:HGNC:25238]	412	-0.61	0.0929	-6.6	4.0E-11	2.2E-10
ENSG00000277117	ENSG00000277117	novel protein, similar to inducible T-cell co-stimulator ligand ICOSLG	100	-1.29	0.1960	-6.6	4.0E-11	2.2E-10
ENSG00000152061	RABGAP1L	RAB GTPase activating protein 1 like [Source:HGNC Symbol;Acc:HGNC:24663]	374	-0.67	0.1009	-6.6	4.1E-11	2.2E-10
ENSG00000110375	UPK2	uroplakin 2 [Source:HGNC Symbol;Acc:HGNC:12579]	61	-1.70	0.2571	-6.6	4.2E-11	2.2E-10
ENSG00000133488	SEC14L4	SEC14 like lipid binding 4 [Source:HGNC Symbol;Acc:HGNC:20627]	63	-1.70	0.2583	-6.6	4.2E-11	2.2E-10
ENSG00000158164	TMSB15A	thymosin beta 15A [Source:HGNC Symbol;Acc:HGNC:30744]	24	-3.44	0.5213	-6.6	4.3E-11	2.3E-10
ENSG00000188883	KLRG2	killer cell lectin like receptor G2 [Source:HGNC Symbol;Acc:HGNC:24778]	80	-1.43	0.2171	-6.6	4.4E-11	2.3E-10
ENSG00000160593	JAML	junction adhesion molecule like [Source:HGNC Symbol;Acc:HGNC:19084]	27	-3.45	0.5233	-6.6	4.4E-11	2.4E-10
ENSG00000130511	SSBP4	single stranded DNA binding protein 4 [Source:HGNC Symbol;Acc:HGNC:15676]	587	-0.54	0.0824	-6.6	4.7E-11	2.5E-10
ENSG00000001561	ENPP4	ectonucleotide pyrophosphatase/phosphodiesterase 4 [Source:HGNC Symbol;Acc:HGNC:3359]	168	-0.96	0.1465	-6.6	4.8E-11	2.6E-10
ENSG00000258661	ENSG00000258661	novel transcript, antisense to PAX9	29	-5.77	0.8780	-6.6	4.9E-11	2.6E-10
ENSG00000106789	CORO2A	coronin 2A [Source:HGNC Symbol;Acc:HGNC:2255]	135	-1.11	0.1690	-6.6	5.0E-11	2.7E-10
ENSG00000010030	ETV7	ETS variant transcription factor 7 [Source:HGNC Symbol;Acc:HGNC:18160]	232	-0.83	0.1261	-6.6	5.1E-11	2.7E-10
ENSG00000205517	RGL3	ral guanine nucleotide dissociation stimulator like 3 [Source:HGNC Symbol;Acc:HGNC:30282]	592	-0.52	0.0785	-6.6	5.3E-11	2.8E-10

ENSG00000171446	KRT27	keratin 27 [Source:HGNC Symbol;Acc:HGNC:30841]	23	-4.72	0.7195	-6.6	5.4E-11	2.9E-10
ENSG00000285831	ENSG000002	novel transcript	29	-5.78	0.8817	-6.6	5.6E-11	3.0E-10
ENSG00000158402	CDC25C	cell division cycle 25C [Source:HGNC Symbol;Acc:HGNC:1727]	365	-0.64	0.0983	-6.6	5.7E-11	3.0E-10
ENSG00000130592	LSP1	lymphocyte specific protein 1 [Source:HGNC Symbol;Acc:HGNC:6707]	44	-2.16	0.3301	-6.5	6.3E-11	3.3E-10
ENSG00000214960	CRPPA	CDP-L-ribitol pyrophosphorylase A [Source:HGNC Symbol;Acc:HGNC:37276]	185	-0.89	0.1363	-6.5	6.3E-11	3.3E-10
ENSG00000260230	FRRS1L	ferric chelate reductase 1 like [Source:HGNC Symbol;Acc:HGNC:1362]	25	-3.15	0.4820	-6.5	6.7E-11	3.5E-10
ENSG00000185127	C6orf120	chromosome 6 open reading frame 120 [Source:HGNC Symbol;Acc:HGNC:21247]	590	-0.53	0.0812	-6.5	6.8E-11	3.6E-10
ENSG00000163818	LZTFL1	leucine zipper transcription factor like 1 [Source:HGNC Symbol;Acc:HGNC:6741]	380	-0.62	0.0948	-6.5	7.1E-11	3.7E-10
ENSG00000163053	SLC16A14	solute carrier family 16 member 14 [Source:HGNC Symbol;Acc:HGNC:26417]	415	-0.60	0.0926	-6.5	7.1E-11	3.7E-10
ENSG00000130193	THEM6	thioesterase superfamily member 6 [Source:HGNC Symbol;Acc:HGNC:29656]	553	-0.52	0.0799	-6.5	7.2E-11	3.8E-10
ENSG00000000938	FGR	FGR proto-oncogene, Src family tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:3697]	50	-2.12	0.3251	-6.5	7.6E-11	4.0E-10
ENSG00000166546	BEAN1	brain expressed associated with NEDD4 1 [Source:HGNC Symbol;Acc:HGNC:24160]	99	-1.27	0.1948	-6.5	7.8E-11	4.1E-10
ENSG00000102387	TAF7L	TATA-box binding protein associated factor 7 like [Source:HGNC Symbol;Acc:HGNC:11548]	23	-4.67	0.7197	-6.5	8.6E-11	4.5E-10
ENSG00000154342	WNT3A	Wnt family member 3A [Source:HGNC Symbol;Acc:HGNC:15983]	27	-3.03	0.4674	-6.5	8.6E-11	4.5E-10
ENSG00000143079	CTTNBP2NL	CTTNBP2 N-terminal like [Source:HGNC Symbol;Acc:HGNC:25330]	620	-0.51	0.0786	-6.5	8.8E-11	4.6E-10
ENSG00000130734	ATG4D	autophagy related 4D cysteine peptidase [Source:HGNC Symbol;Acc:HGNC:20789]	543	-0.54	0.0838	-6.5	8.9E-11	4.7E-10
ENSG00000163701	IL17RE	interleukin 17 receptor E [Source:HGNC Symbol;Acc:HGNC:18439]	329	-0.70	0.1076	-6.5	9.4E-11	4.9E-10
ENSG00000171631	P2RY6	pyrimidinergic receptor P2Y6 [Source:HGNC Symbol;Acc:HGNC:8543]	134	-1.12	0.1732	-6.5	9.5E-11	4.9E-10
ENSG00000255298	OR8G5	olfactory receptor family 8 subfamily G member 5 [Source:HGNC Symbol;Acc:HGNC:19622]	41	-7.78	1.2018	-6.5	9.7E-11	5.1E-10
ENSG00000167925	GHDC	GH3 domain containing [Source:HGNC Symbol;Acc:HGNC:24438]	346	-0.69	0.1068	-6.5	1.0E-10	5.2E-10
ENSG00000163216	SPRR2D	small proline rich protein 2D [Source:HGNC Symbol;Acc:HGNC:11264]	42	-2.09	0.3244	-6.5	1.1E-10	5.5E-10
ENSG00000134222	PSRC1	proline and serine rich coiled-coil 1 [Source:HGNC Symbol;Acc:HGNC:24472]	643	-0.50	0.0777	-6.5	1.1E-10	5.6E-10
ENSG00000133247	KMT5C	lysine methyltransferase 5C [Source:HGNC Symbol;Acc:HGNC:28405]	513	-0.54	0.0840	-6.5	1.1E-10	5.7E-10
ENSG00000133703	KRAS	KRAS proto-oncogene, GTPase [Source:HGNC Symbol;Acc:HGNC:6407]	555	-0.54	0.0836	-6.4	1.1E-10	5.8E-10
ENSG00000171227	TMEM37	transmembrane protein 37 [Source:HGNC Symbol;Acc:HGNC:18216]	40	-2.08	0.3226	-6.4	1.1E-10	5.9E-10
ENSG00000103056	SMPD3	sphingomyelin phosphodiesterase 3 [Source:HGNC Symbol;Acc:HGNC:14240]	163	-0.95	0.1472	-6.4	1.1E-10	5.9E-10
ENSG00000178078	STAP2	signal transducing adaptor family member 2 [Source:HGNC Symbol;Acc:HGNC:30430]	523	-0.56	0.0868	-6.4	1.2E-10	6.0E-10
ENSG00000258949	ENSG000002	novel transcript, antisense to C14orf28	26	-2.91	0.4524	-6.4	1.2E-10	6.1E-10
ENSG00000270002	ENSG000002	novel transcript, antisense to GRID1	24	-3.31	0.5147	-6.4	1.2E-10	6.2E-10
ENSG00000128602	SMO	smoothed, frizzled class receptor [Source:HGNC Symbol;Acc:HGNC:11119]	316	-0.68	0.1062	-6.4	1.3E-10	6.5E-10
ENSG00000157470	FAM81A	family with sequence similarity 81 member A [Source:HGNC Symbol;Acc:HGNC:28379]	80	-1.38	0.2141	-6.4	1.3E-10	6.6E-10
ENSG00000155307	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1 [Source:HGNC Symbol;Acc:HGNC:10528]	32	-2.61	0.4070	-6.4	1.4E-10	7.0E-10
ENSG00000107890	ANKRD26	ankyrin repeat domain 26 [Source:HGNC Symbol;Acc:HGNC:29186]	392	-0.60	0.0930	-6.4	1.4E-10	7.3E-10
ENSG00000177551	NHLH2	nescient helix-loop-helix 2 [Source:HGNC Symbol;Acc:HGNC:7818]	22	-7.85	1.2247	-6.4	1.4E-10	7.3E-10
ENSG00000097096	SYDE2	synapse defective Rho GTPase homolog 2 [Source:HGNC Symbol;Acc:HGNC:25841]	215	-0.86	0.1338	-6.4	1.5E-10	7.5E-10
ENSG00000155749	FLACC1	flagellum associated containing coiled-coil domains 1 [Source:HGNC Symbol;Acc:HGNC:14439]	34	-2.34	0.3654	-6.4	1.5E-10	7.7E-10
ENSG00000111058	ACSS3	acyl-CoA synthetase short chain family member 3 [Source:HGNC Symbol;Acc:HGNC:24723]	21	-4.09	0.6395	-6.4	1.5E-10	7.8E-10
ENSG00000141639	MAPK4	mitogen-activated protein kinase 4 [Source:HGNC Symbol;Acc:HGNC:6878]	25	-3.04	0.4752	-6.4	1.5E-10	7.9E-10
ENSG00000084628	NKAIN1	sodium/potassium transporting ATPase interacting 1 [Source:HGNC Symbol;Acc:HGNC:25743]	56	-1.70	0.2666	-6.4	1.6E-10	8.2E-10
ENSG00000101489	CELF4	CUGBP Elav-like family member 4 [Source:HGNC Symbol;Acc:HGNC:14015]	49	-1.87	0.2930	-6.4	1.7E-10	8.7E-10
ENSG00000287887	ENSG000002	novel transcript	37	-6.73	1.0537	-6.4	1.7E-10	8.9E-10
ENSG00000223802	CERS1	ceramide synthase 1 [Source:HGNC Symbol;Acc:HGNC:14253]	97	-1.28	0.2004	-6.4	1.7E-10	9.0E-10

ENSG00000177679	SRRM3	serine/arginine repetitive matrix 3 [Source:HGNC Symbol;Acc:HGNC:26729]	127	-1.06	0.1665	-6.4	1.9E-10	9.6E-10
ENSG00000184005	ST6GALNAC3	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 3 [Source:HGNC Symbol;Acc:HGNC:19343]	35	-2.29	0.3588	-6.4	1.9E-10	9.6E-10
ENSG00000234678	ELF3-AS1	ELF3 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:40211]	144	-1.00	0.1579	-6.4	2.0E-10	1.0E-09
ENSG00000189350	TOGARAM2	TOG array regulator of axonemal microtubules 2 [Source:HGNC Symbol;Acc:HGNC:33715]	46	-1.91	0.3003	-6.4	2.0E-10	1.0E-09
ENSG00000138650	PCDH10	protocadherin 10 [Source:HGNC Symbol;Acc:HGNC:13404]	24	-3.08	0.4852	-6.4	2.1E-10	1.1E-09
ENSG0000010404	IDS	iduronate 2-sulfatase [Source:HGNC Symbol;Acc:HGNC:5389]	350	-0.63	0.0996	-6.4	2.1E-10	1.1E-09
ENSG00000101680	LAMA1	laminin subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:6481]	66	-1.62	0.2545	-6.4	2.1E-10	1.1E-09
ENSG00000101445	PPP1R16B	protein phosphatase 1 regulatory subunit 16B [Source:HGNC Symbol;Acc:HGNC:15850]	36	-2.19	0.3461	-6.3	2.3E-10	1.2E-09
ENSG00000272732	ENSG00000272732	novel transcript	41	-2.03	0.3209	-6.3	2.5E-10	1.2E-09
ENSG00000260244	ENSG00000260244	novel transcript, overlapping GUCY1A3	26	-5.60	0.8848	-6.3	2.5E-10	1.3E-09
ENSG00000144407	PTH2R	parathyroid hormone 2 receptor [Source:HGNC Symbol;Acc:HGNC:9609]	37	-7.62	1.2046	-6.3	2.5E-10	1.3E-09
ENSG00000213965	NUDT19	nudix hydrolase 19 [Source:HGNC Symbol;Acc:HGNC:32036]	678	-0.55	0.0864	-6.3	2.5E-10	1.3E-09
ENSG00000153012	LGI2	leucine rich repeat LGI family member 2 [Source:HGNC Symbol;Acc:HGNC:18710]	30	-2.66	0.4208	-6.3	2.7E-10	1.3E-09
ENSG00000092758	COL9A3	collagen type IX alpha 3 chain [Source:HGNC Symbol;Acc:HGNC:2219]	63	-1.59	0.2516	-6.3	2.7E-10	1.4E-09
ENSG00000180537	RNF182	ring finger protein 182 [Source:HGNC Symbol;Acc:HGNC:28522]	49	-1.78	0.2829	-6.3	2.9E-10	1.5E-09
ENSG00000163050	COQ8A	coenzyme Q8A [Source:HGNC Symbol;Acc:HGNC:16812]	262	-0.74	0.1167	-6.3	3.0E-10	1.5E-09
ENSG00000278948	ENSG00000278948	TEC	48	-1.83	0.2908	-6.3	3.0E-10	1.5E-09
ENSG00000138795	LEF1	lymphoid enhancer binding factor 1 [Source:HGNC Symbol;Acc:HGNC:6551]	31	-2.46	0.3914	-6.3	3.0E-10	1.5E-09
ENSG00000005108	THSD7A	thrombospondin type 1 domain containing 7A [Source:HGNC Symbol;Acc:HGNC:22207]	123	-1.07	0.1705	-6.3	3.1E-10	1.6E-09
ENSG00000143452	HORMAD1	HORMA domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25245]	115	-1.11	0.1760	-6.3	3.1E-10	1.6E-09
ENSG00000007968	E2F2	E2F transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:3114]	138	-1.03	0.1631	-6.3	3.2E-10	1.6E-09
ENSG00000205364	MT1M	metallothionein 1M [Source:HGNC Symbol;Acc:HGNC:14296]	21	-4.58	0.7281	-6.3	3.3E-10	1.6E-09
ENSG00000145882	PCYOX1L	prenylcysteine oxidase 1 like [Source:HGNC Symbol;Acc:HGNC:28477]	147	-1.00	0.1597	-6.3	3.4E-10	1.7E-09
ENSG00000188811	NHLRC3	NHL repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:33751]	320	-0.79	0.1251	-6.3	3.4E-10	1.7E-09
ENSG00000180346	TIGD2	tigger transposable element derived 2 [Source:HGNC Symbol;Acc:HGNC:18333]	523	-0.52	0.0825	-6.3	3.4E-10	1.7E-09
ENSG0000020633	RUNX3	RUNX family transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:10473]	163	-0.94	0.1494	-6.3	3.5E-10	1.8E-09
ENSG00000196151	WDSUB1	WD repeat, sterile alpha motif and U-box domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26697]	237	-0.76	0.1217	-6.3	3.6E-10	1.8E-09
ENSG00000206530	CFAP44	cilia and flagella associated protein 44 [Source:HGNC Symbol;Acc:HGNC:25631]	125	-1.06	0.1684	-6.3	3.6E-10	1.8E-09
ENSG00000224189	HAGLR	HOXD antisense growth-associated long non-coding RNA [Source:HGNC Symbol;Acc:HGNC:43755]	31	-2.66	0.4241	-6.3	3.8E-10	1.9E-09
ENSG00000165973	NELL1	neural EGFL like 1 [Source:HGNC Symbol;Acc:HGNC:7750]	34	-6.61	1.0555	-6.3	3.8E-10	1.9E-09
ENSG00000160801	PTH1R	parathyroid hormone 1 receptor [Source:HGNC Symbol;Acc:HGNC:9608]	25	-2.83	0.4527	-6.3	3.8E-10	1.9E-09
ENSG00000108830	RND2	Rho family GTPase 2 [Source:HGNC Symbol;Acc:HGNC:18315]	43	-1.96	0.3133	-6.2	4.2E-10	2.1E-09
ENSG00000128346	C22orf23	chromosome 22 open reading frame 23 [Source:HGNC Symbol;Acc:HGNC:18589]	87	-1.31	0.2097	-6.2	4.3E-10	2.1E-09
ENSG00000275223	ENSG00000275223	novel transcript	68	-1.49	0.2380	-6.2	4.3E-10	2.1E-09
ENSG00000181744	DIPK2A	divergent protein kinase domain 2A [Source:HGNC Symbol;Acc:HGNC:28490]	306	-0.68	0.1087	-6.2	4.3E-10	2.2E-09
ENSG00000166086	JAM3	junctional adhesion molecule 3 [Source:HGNC Symbol;Acc:HGNC:15532]	93	-1.27	0.2038	-6.2	4.4E-10	2.2E-09
ENSG00000197415	VEPH1	ventricular zone expressed PH domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25735]	365	-0.61	0.0971	-6.2	4.4E-10	2.2E-09
ENSG00000060069	CTDP1	CTD phosphatase subunit 1 [Source:HGNC Symbol;Acc:HGNC:2498]	516	-0.53	0.0844	-6.2	4.6E-10	2.3E-09
ENSG00000186838	SELENOV	selenoprotein V [Source:HGNC Symbol;Acc:HGNC:30399]	26	-2.92	0.4694	-6.2	4.7E-10	2.3E-09
ENSG00000176887	SOX11	SRY-box transcription factor 11 [Source:HGNC Symbol;Acc:HGNC:11191]	37	-2.28	0.3657	-6.2	4.7E-10	2.4E-09
ENSG00000132563	REEP2	receptor accessory protein 2 [Source:HGNC Symbol;Acc:HGNC:17975]	40	-2.01	0.3235	-6.2	5.0E-10	2.5E-09
ENSG00000163218	PGLYRP4	peptidoglycan recognition protein 4 [Source:HGNC Symbol;Acc:HGNC:30015]	70	-1.46	0.2351	-6.2	5.1E-10	2.6E-09

ENSG00000197471	SPN	sialoporphin [Source:HGNC Symbol;Acc:HGNC:11249]	68	-1.54	0.2480	-6.2	5.9E-10	2.9E-09
ENSG00000179546	HTR1D	5-hydroxytryptamine receptor 1D [Source:HGNC Symbol;Acc:HGNC:5289]	163	-0.89	0.1445	-6.2	6.1E-10	3.0E-09
ENSG00000155269	GPR78	G protein-coupled receptor 78 [Source:HGNC Symbol;Acc:HGNC:4528]	28	-2.66	0.4296	-6.2	6.4E-10	3.2E-09
ENSG00000169896	ITGAM	integrin subunit alpha M [Source:HGNC Symbol;Acc:HGNC:6149]	34	-2.40	0.3892	-6.2	7.1E-10	3.5E-09
ENSG00000106278	PTPRZ1	protein tyrosine phosphatase receptor type Z1 [Source:HGNC Symbol;Acc:HGNC:9685]	126	-2.40	0.3895	-6.2	7.1E-10	3.5E-09
ENSG00000152583	SPARCL1	SPARC like 1 [Source:HGNC Symbol;Acc:HGNC:11220]	58	-1.80	0.2923	-6.2	7.4E-10	3.7E-09
ENSG00000151790	TDO2	tryptophan 2,3-dioxygenase [Source:HGNC Symbol;Acc:HGNC:11708]	31	-2.37	0.3864	-6.1	8.0E-10	3.9E-09
ENSG00000247287	ENSG00000247287	novel transcript, antisense to PRKCH	23	-2.99	0.4865	-6.1	8.0E-10	3.9E-09
ENSG00000168071	CCDC88B	coiled-coil domain containing 88B [Source:HGNC Symbol;Acc:HGNC:26757]	187	-0.87	0.1413	-6.1	8.0E-10	4.0E-09
ENSG00000242259	C22orf39	chromosome 22 open reading frame 39 [Source:HGNC Symbol;Acc:HGNC:27012]	281	-0.77	0.1248	-6.1	8.4E-10	4.1E-09
ENSG00000074047	GLI2	GLI family zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:4318]	39	-2.00	0.3255	-6.1	8.5E-10	4.2E-09
ENSG00000258115	ENSG00000258115	novel transcript, antisense to TPH2	32	-7.41	1.2087	-6.1	8.6E-10	4.2E-09
ENSG00000180447	GAS1	growth arrest specific 1 [Source:HGNC Symbol;Acc:HGNC:4165]	286	-0.69	0.1121	-6.1	8.7E-10	4.3E-09
ENSG00000248599	FLJ42969	uncharacterized LOC441374 [Source:NCBI gene (formerly Entrezgene);Acc:441374]	52	-1.80	0.2948	-6.1	9.3E-10	4.6E-09
ENSG00000178385	PLEKHM3	pleckstrin homology domain containing M3 [Source:HGNC Symbol;Acc:HGNC:34006]	242	-0.74	0.1208	-6.1	9.4E-10	4.6E-09
ENSG00000244300	GATA2-AS1	GATA2 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:51108]	647	-0.52	0.0854	-6.1	9.7E-10	4.8E-09
ENSG00000224652	LINC00885	long intergenic non-protein coding RNA 885 [Source:HGNC Symbol;Acc:HGNC:48571]	109	-1.17	0.1925	-6.1	1.1E-09	5.5E-09
ENSG00000006042	TMEM98	transmembrane protein 98 [Source:HGNC Symbol;Acc:HGNC:24529]	43	-1.94	0.3178	-6.1	1.1E-09	5.5E-09
ENSG00000251348	HSPD1P11	heat shock protein family D (Hsp60) member 1 pseudogene 11 [Source:HGNC Symbol;Acc:HGNC:35142]	66	-1.49	0.2448	-6.1	1.2E-09	5.7E-09
ENSG00000125845	BMP2	bone morphogenetic protein 2 [Source:HGNC Symbol;Acc:HGNC:1069]	299	-0.68	0.1111	-6.1	1.2E-09	5.8E-09
ENSG00000183145	RIPPLY3	rippy transcriptional repressor 3 [Source:HGNC Symbol;Acc:HGNC:3047]	124	-1.03	0.1701	-6.1	1.2E-09	5.9E-09
ENSG0000025039	RARGD	Ras related GTP binding D [Source:HGNC Symbol;Acc:HGNC:19903]	96	-1.19	0.1953	-6.1	1.2E-09	6.0E-09
ENSG00000111266	DUSP16	dual specificity phosphatase 16 [Source:HGNC Symbol;Acc:HGNC:17909]	321	-0.66	0.1095	-6.1	1.2E-09	6.0E-09
ENSG00000168621	GDNF	glial cell derived neurotrophic factor [Source:HGNC Symbol;Acc:HGNC:4232]	31	-2.38	0.3926	-6.1	1.2E-09	6.0E-09
ENSG00000261786	ENSG00000261786	novel transcript	80	-1.34	0.2207	-6.1	1.3E-09	6.3E-09
ENSG00000271335	CCNY-AS1	CCNY antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:55252]	128	-1.09	0.1790	-6.1	1.3E-09	6.4E-09
ENSG00000228065	LINC01515	long intergenic non-protein coding RNA 1515 [Source:HGNC Symbol;Acc:HGNC:51210]	24	-2.95	0.4865	-6.1	1.3E-09	6.5E-09
ENSG00000166863	TAC3	tachykinin precursor 3 [Source:HGNC Symbol;Acc:HGNC:11521]	20	-4.83	0.7962	-6.1	1.3E-09	6.5E-09
ENSG00000127980	PEX1	peroxisomal biogenesis factor 1 [Source:HGNC Symbol;Acc:HGNC:8850]	329	-0.63	0.1032	-6.1	1.4E-09	6.6E-09
ENSG00000119772	DNMT3A	DNA methyltransferase 3 alpha [Source:HGNC Symbol;Acc:HGNC:2978]	514	-0.59	0.0978	-6.1	1.4E-09	6.8E-09
ENSG00000143036	SLC44A3	solute carrier family 44 member 3 [Source:HGNC Symbol;Acc:HGNC:28689]	508	-0.53	0.0870	-6.1	1.4E-09	6.8E-09
ENSG00000189058	APOD	apolipoprotein D [Source:HGNC Symbol;Acc:HGNC:612]	35	-2.17	0.3589	-6.0	1.5E-09	7.0E-09
ENSG00000182134	TDRKH	tudor and KH domain containing [Source:HGNC Symbol;Acc:HGNC:11713]	417	-0.55	0.0912	-6.0	1.5E-09	7.1E-09
ENSG00000198625	MDM4	MDM4 regulator of p53 [Source:HGNC Symbol;Acc:HGNC:6974]	388	-0.59	0.0971	-6.0	1.5E-09	7.2E-09
ENSG00000261578	ENSG00000261578	novel transcript, overlapping to TSKU	77	-1.32	0.2184	-6.0	1.5E-09	7.3E-09
ENSG00000124374	PAIP2B	poly(A) binding protein interacting protein 2B [Source:HGNC Symbol;Acc:HGNC:29200]	179	-0.85	0.1405	-6.0	1.6E-09	7.5E-09
ENSG00000179314	WSCD1	WSC domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29060]	23	-2.82	0.4676	-6.0	1.6E-09	7.6E-09
ENSG00000130208	APOC1	apolipoprotein C1 [Source:HGNC Symbol;Acc:HGNC:607]	29	-2.55	0.4221	-6.0	1.6E-09	7.8E-09
ENSG00000215114	UBXN2B	UBX domain protein 2B [Source:HGNC Symbol;Acc:HGNC:27035]	311	-0.63	0.1047	-6.0	1.6E-09	7.8E-09
ENSG00000262823	ENSG00000262823	novel transcript, antisense to SPNS3	103	-1.12	0.1863	-6.0	1.7E-09	7.9E-09
ENSG00000163563	MNDA	myeloid cell nuclear differentiation antigen [Source:HGNC Symbol;Acc:HGNC:7183]	22	-3.02	0.5016	-6.0	1.7E-09	8.1E-09
ENSG00000147041	SYTL5	synaptotagmin like 5 [Source:HGNC Symbol;Acc:HGNC:15589]	54	-1.70	0.2821	-6.0	1.8E-09	8.8E-09

ENSG00000161911	TREML1	triggering receptor expressed on myeloid cells like 1 [Source:HGNC Symbol;Acc:HGNC:20434]	16	-7.43	1.2360	-6.0	1.8E-09	8.8E-09
ENSG00000175832	ETV4	ETS variant transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:3493]	227	-0.78	0.1296	-6.0	1.9E-09	8.9E-09
ENSG00000286358	ENSG000002	novel transcript	16	-7.43	1.2361	-6.0	1.9E-09	9.0E-09
ENSG00000274928	KRT89P	keratin 89 pseudogene [Source:HGNC Symbol;Acc:HGNC:30196]	40	-1.91	0.3179	-6.0	1.9E-09	9.3E-09
ENSG00000247081	BAALC-AS1	BAALC antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:50461]	59	-1.50	0.2508	-6.0	2.0E-09	9.4E-09
ENSG00000174498	IGDCC3	immunoglobulin superfamily DCC subclass member 3 [Source:HGNC Symbol;Acc:HGNC:9700]	47	-1.83	0.3044	-6.0	2.0E-09	9.5E-09
ENSG00000103742	IGDCC4	immunoglobulin superfamily DCC subclass member 4 [Source:HGNC Symbol;Acc:HGNC:13770]	37	-2.01	0.3363	-6.0	2.1E-09	1.0E-08
ENSG00000251432	LINC02615	long intergenic non-protein coding RNA 2615 [Source:HGNC Symbol;Acc:HGNC:53402]	86	-1.30	0.2171	-6.0	2.2E-09	1.0E-08
ENSG00000118194	TNNT2	troponin T2, cardiac type [Source:HGNC Symbol;Acc:HGNC:11949]	25	-2.65	0.4432	-6.0	2.3E-09	1.1E-08
ENSG00000115507	OTX1	orthodenticle homeobox 1 [Source:HGNC Symbol;Acc:HGNC:8521]	210	-0.78	0.1313	-6.0	2.4E-09	1.2E-08
ENSG00000114739	ACVR2B	activin A receptor type 2B [Source:HGNC Symbol;Acc:HGNC:174]	170	-0.85	0.1435	-5.9	2.8E-09	1.3E-08
ENSG00000251026	LINC02163	long intergenic non-protein coding RNA 2163 [Source:HGNC Symbol;Acc:HGNC:53024]	19	-4.07	0.6845	-5.9	2.8E-09	1.3E-08
ENSG00000176225	RTTN	rotatin [Source:HGNC Symbol;Acc:HGNC:18654]	515	-0.51	0.0858	-5.9	2.8E-09	1.3E-08
ENSG00000171236	LRG1	leucine rich alpha-2-glycoprotein 1 [Source:HGNC Symbol;Acc:HGNC:29480]	37	-2.24	0.3768	-5.9	2.9E-09	1.4E-08
ENSG00000132321	IQCA1	IQ motif containing with AAA domain 1 [Source:HGNC Symbol;Acc:HGNC:26195]	137	-0.97	0.1629	-5.9	2.9E-09	1.4E-08
ENSG00000266208	ENSG000002	novel transcript, antisense to GJD3	168	-0.85	0.1430	-5.9	3.0E-09	1.4E-08
ENSG00000179630	LACC1	laccase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26789]	87	-1.34	0.2254	-5.9	3.0E-09	1.4E-08
ENSG00000283098	ENSG000002	novel transcript	25	-2.61	0.4406	-5.9	3.0E-09	1.4E-08
ENSG00000228903	RASA4CP	RAS p21 protein activator 4C, pseudogene [Source:HGNC Symbol;Acc:HGNC:44185]	25	-2.63	0.4447	-5.9	3.2E-09	1.5E-08
ENSG0000023902	PLEKHO1	pleckstrin homology domain containing O1 [Source:HGNC Symbol;Acc:HGNC:24310]	99	-1.15	0.1948	-5.9	3.2E-09	1.5E-08
ENSG00000187678	SPRY4	sprouty RTK signaling antagonist 4 [Source:HGNC Symbol;Acc:HGNC:15533]	240	-0.71	0.1207	-5.9	3.3E-09	1.5E-08
NA	23	NA	104	-1.14	0.1924	-5.9	3.3E-09	1.6E-08
ENSG00000188001	TPRG1	tumor protein p63 regulated 1 [Source:HGNC Symbol;Acc:HGNC:24759]	31	-2.31	0.3921	-5.9	3.6E-09	1.7E-08
ENSG00000140459	CYP11A1	cytochrome P450 family 11 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2590]	27	-7.17	1.2174	-5.9	3.8E-09	1.8E-08
ENSG00000163704	PRRT3	proline rich transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:26591]	148	-0.91	0.1539	-5.9	3.9E-09	1.8E-08
ENSG00000166869	CHP2	calcineurin like EF-hand protein 2 [Source:HGNC Symbol;Acc:HGNC:24927]	19	-4.76	0.8080	-5.9	3.9E-09	1.8E-08
ENSG00000174827	PDZK1	PDZ domain containing 1 [Source:HGNC Symbol;Acc:HGNC:8821]	41	-1.82	0.3090	-5.9	4.0E-09	1.9E-08
ENSG00000182118	FAM89A	family with sequence similarity 89 member A [Source:HGNC Symbol;Acc:HGNC:25057]	126	-1.01	0.1715	-5.9	4.0E-09	1.9E-08
ENSG00000139915	MDGA2	MAM domain containing glycosylphosphatidylinositol anchor 2 [Source:HGNC Symbol;Acc:HGNC:19835]	21	-5.29	0.8989	-5.9	4.1E-09	1.9E-08
ENSG00000250320	EDIL3-DT	EDIL3 divergent transcript [Source:HGNC Symbol;Acc:HGNC:40204]	15	-7.32	1.2453	-5.9	4.1E-09	1.9E-08
ENSG00000187398	LUZP2	leucine zipper protein 2 [Source:HGNC Symbol;Acc:HGNC:23206]	18	-3.84	0.6538	-5.9	4.1E-09	1.9E-08
ENSG00000068615	REEP1	receptor accessory protein 1 [Source:HGNC Symbol;Acc:HGNC:25786]	26	-2.50	0.4245	-5.9	4.2E-09	1.9E-08
ENSG00000130856	ZNF236	zinc finger protein 236 [Source:HGNC Symbol;Acc:HGNC:13028]	339	-0.68	0.1155	-5.9	4.2E-09	2.0E-08
ENSG00000139266	MARCHF9	membrane associated ring-CH-type finger 9 [Source:HGNC Symbol;Acc:HGNC:25139]	210	-0.85	0.1447	-5.9	4.4E-09	2.1E-08
ENSG00000151150	ANK3	ankyrin 3 [Source:HGNC Symbol;Acc:HGNC:494]	464	-0.53	0.0909	-5.9	4.5E-09	2.1E-08
ENSG0000015153	YAF2	YY1 associated factor 2 [Source:HGNC Symbol;Acc:HGNC:17363]	283	-0.64	0.1100	-5.9	4.5E-09	2.1E-08
ENSG00000109819	PPARGC1A	PPARG coactivator 1 alpha [Source:HGNC Symbol;Acc:HGNC:9237]	26	-7.13	1.2155	-5.9	4.6E-09	2.1E-08
ENSG00000164100	NDST3	N-deacetylase and N-sulfotransferase 3 [Source:HGNC Symbol;Acc:HGNC:7682]	20	-5.27	0.8998	-5.9	4.6E-09	2.1E-08
ENSG00000163393	SLC22A15	solute carrier family 22 member 15 [Source:HGNC Symbol;Acc:HGNC:20301]	199	-0.79	0.1348	-5.9	4.6E-09	2.2E-08
ENSG00000249816	LINC00964	long intergenic non-protein coding RNA 964 [Source:HGNC Symbol;Acc:HGNC:27226]	19	-3.73	0.6367	-5.9	4.7E-09	2.2E-08
ENSG00000182782	HCAR2	hydroxycarboxylic acid receptor 2 [Source:HGNC Symbol;Acc:HGNC:24827]	70	-1.40	0.2386	-5.9	4.7E-09	2.2E-08
ENSG00000277013	ENSG000002	novel transcript	351	-0.64	0.1087	-5.9	4.7E-09	2.2E-08

ENSG00000175697	GPR156	G protein-coupled receptor 156 [Source:HGNC Symbol;Acc:HGNC:20844]	67	-1.37	0.2338	-5.9	4.8E-09	2.2E-08
ENSG00000152580	IGSF10	immunoglobulin superfamily member 10 [Source:HGNC Symbol;Acc:HGNC:26384]	19	-4.70	0.8025	-5.9	4.8E-09	2.2E-08
ENSG00000250986	LINC02600	long intergenic non-protein coding RNA 2600 [Source:HGNC Symbol;Acc:HGNC:53177]	40	-1.98	0.3390	-5.9	4.9E-09	2.3E-08
ENSG00000227121	LINC02672	long intergenic non-protein coding RNA 2672 [Source:HGNC Symbol;Acc:HGNC:54159]	15	-7.28	1.2436	-5.9	4.9E-09	2.3E-08
ENSG00000066336	SPI1	Spi-1 proto-oncogene [Source:HGNC Symbol;Acc:HGNC:11241]	43	-1.82	0.3110	-5.8	4.9E-09	2.3E-08
ENSG00000139714	MORN3	MORN repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:29807]	41	-1.80	0.3081	-5.8	5.0E-09	2.3E-08
ENSG00000167912	ENSG00000167912	novel transcript	18	-3.62	0.6197	-5.8	5.0E-09	2.3E-08
ENSG00000144401	METTL21A	methyltransferase like 21A [Source:HGNC Symbol;Acc:HGNC:30476]	467	-0.51	0.0880	-5.8	5.0E-09	2.3E-08
ENSG00000272568	ENSG00000272568	novel transcript, antisense to CPVL	15	-7.27	1.2452	-5.8	5.3E-09	2.5E-08
ENSG00000203783	PRR9	proline rich 9 [Source:HGNC Symbol;Acc:HGNC:32057]	15	-7.27	1.2463	-5.8	5.5E-09	2.5E-08
ENSG00000118096	IFT46	intraflagellar transport 46 [Source:HGNC Symbol;Acc:HGNC:26146]	357	-0.59	0.1011	-5.8	5.5E-09	2.6E-08
ENSG00000222033	LINC01124	long intergenic non-protein coding RNA 1124 [Source:HGNC Symbol;Acc:HGNC:49270]	28	-2.32	0.3979	-5.8	5.6E-09	2.6E-08
ENSG00000157551	KCNJ15	potassium inwardly rectifying channel subfamily J member 15 [Source:HGNC Symbol;Acc:HGNC:6261]	38	-1.92	0.3301	-5.8	5.7E-09	2.6E-08
ENSG00000123096	SSPN	sarcospan [Source:HGNC Symbol;Acc:HGNC:11322]	87	-1.16	0.1997	-5.8	5.7E-09	2.6E-08
ENSG00000149212	SESN3	sestrin 3 [Source:HGNC Symbol;Acc:HGNC:23060]	34	-2.03	0.3496	-5.8	6.0E-09	2.8E-08
ENSG00000167207	NOD2	nucleotide binding oligomerization domain containing 2 [Source:HGNC Symbol;Acc:HGNC:5331]	47	-1.71	0.2948	-5.8	6.1E-09	2.8E-08
ENSG00000165591	FAAH2	fatty acid amide hydrolase 2 [Source:HGNC Symbol;Acc:HGNC:26440]	18	-3.65	0.6273	-5.8	6.2E-09	2.8E-08
ENSG00000085741	WNT11	Wnt family member 11 [Source:HGNC Symbol;Acc:HGNC:12776]	45	-1.70	0.2922	-5.8	6.3E-09	2.9E-08
ENSG00000250899	ENSG00000250899	novel transcript	305	-0.63	0.1091	-5.8	6.3E-09	2.9E-08
ENSG00000100092	SH3BP1	SH3 domain binding protein 1 [Source:HGNC Symbol;Acc:HGNC:10824]	97	-1.12	0.1934	-5.8	6.4E-09	3.0E-08
ENSG00000197043	ANXA6	annexin A6 [Source:HGNC Symbol;Acc:HGNC:544]	134	-0.93	0.1603	-5.8	6.4E-09	3.0E-08
ENSG00000135929	CYP27A1	cytochrome P450 family 27 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2605]	63	-1.51	0.2596	-5.8	6.6E-09	3.0E-08
ENSG00000121966	CXCR4	C-X-C motif chemokine receptor 4 [Source:HGNC Symbol;Acc:HGNC:2561]	62	-1.48	0.2548	-5.8	6.7E-09	3.1E-08
ENSG00000119283	TRIM67	tripartite motif containing 67 [Source:HGNC Symbol;Acc:HGNC:31859]	19	-4.12	0.7113	-5.8	6.8E-09	3.1E-08
ENSG00000043591	ADRB1	adrenoceptor beta 1 [Source:HGNC Symbol;Acc:HGNC:285]	102	-1.09	0.1886	-5.8	6.8E-09	3.1E-08
ENSG00000214694	ARHGEF33	Rho guanine nucleotide exchange factor 33 [Source:HGNC Symbol;Acc:HGNC:37252]	18	-4.00	0.6910	-5.8	6.8E-09	3.1E-08
ENSG00000187049	TMEM216	transmembrane protein 216 [Source:HGNC Symbol;Acc:HGNC:25018]	262	-0.69	0.1192	-5.8	7.4E-09	3.4E-08
ENSG00000229272	ENSG00000229272	novel transcript	18	-4.65	0.8052	-5.8	7.7E-09	3.5E-08
ENSG00000198894	CIPC	CLOCK interacting pacemaker [Source:HGNC Symbol;Acc:HGNC:20365]	318	-0.60	0.1047	-5.8	8.0E-09	3.7E-08
ENSG00000108932	SLC16A6	solute carrier family 16 member 6 [Source:HGNC Symbol;Acc:HGNC:10927]	52	-1.64	0.2838	-5.8	8.1E-09	3.7E-08
ENSG00000043462	LCP2	lymphocyte cytosolic protein 2 [Source:HGNC Symbol;Acc:HGNC:6529]	26	-2.43	0.4216	-5.8	8.3E-09	3.8E-08
ENSG00000130202	NECTIN2	nectin cell adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:9707]	2776	-0.54	0.0933	-5.8	8.5E-09	3.9E-08
ENSG00000152766	ANKRD22	ankyrin repeat domain 22 [Source:HGNC Symbol;Acc:HGNC:28321]	150	-0.90	0.1556	-5.8	8.5E-09	3.9E-08
ENSG00000166860	ZBTB39	zinc finger and BTB domain containing 39 [Source:HGNC Symbol;Acc:HGNC:29014]	382	-0.55	0.0964	-5.8	8.9E-09	4.1E-08
ENSG00000154040	CABYR	calcium binding tyrosine phosphorylation regulated [Source:HGNC Symbol;Acc:HGNC:15569]	86	-1.23	0.2139	-5.7	9.0E-09	4.1E-08
ENSG00000174992	ZG16	zymogen granule protein 16 [Source:HGNC Symbol;Acc:HGNC:30961]	36	-2.05	0.3560	-5.7	9.2E-09	4.2E-08
ENSG00000211891	IGHE	immunoglobulin heavy constant epsilon [Source:HGNC Symbol;Acc:HGNC:5522]	28	-2.26	0.3932	-5.7	9.2E-09	4.2E-08
ENSG00000111261	MANSC1	MANSC domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25505]	77	-1.29	0.2252	-5.7	9.5E-09	4.3E-08
ENSG00000232527	LINC02802	long intergenic non-protein coding RNA 2802 [Source:HGNC Symbol;Acc:HGNC:54326]	29	-2.32	0.4037	-5.7	9.7E-09	4.4E-08
ENSG00000146243	IRAK1BP1	interleukin 1 receptor associated kinase 1 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:17368]	33	-2.05	0.3573	-5.7	1.0E-08	4.7E-08
ENSG00000118707	TGIF2	TGFB induced factor homeobox 2 [Source:HGNC Symbol;Acc:HGNC:15764]	281	-0.64	0.1116	-5.7	1.0E-08	4.7E-08
ENSG00000016391	CHDH	choline dehydrogenase [Source:HGNC Symbol;Acc:HGNC:24288]	144	-0.89	0.1555	-5.7	1.1E-08	4.8E-08

ENSG00000153233	PTPRR	protein tyrosine phosphatase receptor type R [Source:HGNC Symbol;Acc:HGNC:9680]	39	-1.92	0.3358	-5.7	1.1E-08	4.8E-08
ENSG00000100121	GGTLC2	gamma-glutamyltransferase light chain 2 [Source:HGNC Symbol;Acc:HGNC:18596]	24	-6.09	1.0650	-5.7	1.1E-08	4.9E-08
ENSG00000115598	IL1RL2	interleukin 1 receptor like 2 [Source:HGNC Symbol;Acc:HGNC:5999]	131	-0.96	0.1676	-5.7	1.1E-08	4.9E-08
ENSG00000100889	PCK2	phosphoenolpyruvate carboxykinase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:8725]	320	-0.64	0.1113	-5.7	1.1E-08	5.0E-08
ENSG00000203724	C1orf53	chromosome 1 open reading frame 53 [Source:HGNC Symbol;Acc:HGNC:30003]	153	-0.90	0.1569	-5.7	1.2E-08	5.2E-08
ENSG00000182957	SPATA13	spermatogenesis associated 13 [Source:HGNC Symbol;Acc:HGNC:23222]	139	-0.94	0.1639	-5.7	1.2E-08	5.3E-08
ENSG00000152689	RASGRP3	RAS guanyl releasing protein 3 [Source:HGNC Symbol;Acc:HGNC:14545]	38	-1.87	0.3283	-5.7	1.2E-08	5.3E-08
ENSG00000179277	MEIS3P1	Meis homeobox 3 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:7002]	89	-1.15	0.2023	-5.7	1.2E-08	5.4E-08
ENSG00000146151	HMGCLL1	3-hydroxymethyl-3-methylglutaryl-CoA lyase like 1 [Source:HGNC Symbol;Acc:HGNC:21359]	20	-3.21	0.5630	-5.7	1.2E-08	5.6E-08
ENSG00000011600	TYROBP	transmembrane immune signaling adaptor TYROBP [Source:HGNC Symbol;Acc:HGNC:12449]	85	-2.42	0.4254	-5.7	1.3E-08	5.9E-08
ENSG00000184012	TMPRSS2	transmembrane serine protease 2 [Source:HGNC Symbol;Acc:HGNC:11876]	93	-1.13	0.1991	-5.7	1.3E-08	5.9E-08
ENSG00000145088	EAF2	ELL associated factor 2 [Source:HGNC Symbol;Acc:HGNC:23115]	73	-1.29	0.2274	-5.7	1.3E-08	6.0E-08
ENSG00000126217	MCF2L	MCF.2 cell line derived transforming sequence like [Source:HGNC Symbol;Acc:HGNC:14576]	38	-1.86	0.3286	-5.7	1.4E-08	6.3E-08
ENSG00000105419	MEIS3	Meis homeobox 3 [Source:HGNC Symbol;Acc:HGNC:29537]	561	-0.50	0.0889	-5.7	1.4E-08	6.3E-08
ENSG00000198673	TAFA2	TAFA chemokine like family member 2 [Source:HGNC Symbol;Acc:HGNC:21589]	28	-2.36	0.4158	-5.7	1.4E-08	6.4E-08
ENSG00000276855	ENSG00000276855	novel transcript	62	-1.43	0.2522	-5.7	1.4E-08	6.4E-08
ENSG00000148408	CACNA1B	calcium voltage-gated channel subunit alpha1 B [Source:HGNC Symbol;Acc:HGNC:1389]	17	-3.98	0.7038	-5.7	1.5E-08	6.9E-08
ENSG00000170464	DNAJC18	DnaJ heat shock protein family (Hsp40) member C18 [Source:HGNC Symbol;Acc:HGNC:28429]	126	-0.93	0.1652	-5.7	1.5E-08	6.9E-08
ENSG00000127252	PLAAT1	phospholipase A and acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:14922]	21	-3.01	0.5324	-5.7	1.6E-08	6.9E-08
ENSG00000257176	ENSG00000257176	novel transcript, antisense to FAR2	36	-2.02	0.3574	-5.6	1.7E-08	7.4E-08
ENSG00000165140	FBP1	fructose-bisphosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3606]	17	-4.21	0.7462	-5.6	1.7E-08	7.6E-08
ENSG00000197594	ENPP1	ectonucleotide pyrophosphatase/phosphodiesterase 1 [Source:HGNC Symbol;Acc:HGNC:3356]	238	-0.70	0.1235	-5.6	1.7E-08	7.7E-08
ENSG00000134049	IER3IP1	immediate early response 3 interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:18550]	372	-0.57	0.1015	-5.6	1.7E-08	7.7E-08
ENSG00000151338	MIPOL1	mirror-image polydactyly 1 [Source:HGNC Symbol;Acc:HGNC:21460]	137	-0.90	0.1600	-5.6	1.8E-08	7.8E-08
ENSG00000129538	RNASE1	ribonuclease A family member 1, pancreatic [Source:HGNC Symbol;Acc:HGNC:10044]	179	-2.84	0.5046	-5.6	1.8E-08	8.1E-08
ENSG00000284309	ENSG00000284309	novel transcript	13	-7.07	1.2577	-5.6	1.9E-08	8.4E-08
ENSG00000133812	SBF2	SET binding factor 2 [Source:HGNC Symbol;Acc:HGNC:2135]	370	-0.55	0.0983	-5.6	1.9E-08	8.5E-08
ENSG00000034239	EFCAB1	EF-hand calcium binding domain 1 [Source:HGNC Symbol;Acc:HGNC:25678]	13	-7.06	1.2563	-5.6	1.9E-08	8.5E-08
ENSG00000271474	UNC5C-AS1	UNC5C antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:55246]	32	-2.12	0.3773	-5.6	1.9E-08	8.5E-08
ENSG00000251442	LINC01094	long intergenic non-protein coding RNA 1094 [Source:HGNC Symbol;Acc:HGNC:49219]	70	-1.32	0.2355	-5.6	1.9E-08	8.6E-08
ENSG00000233124	LINC00456	long intergenic non-protein coding RNA 456 [Source:HGNC Symbol;Acc:HGNC:42804]	18	-3.26	0.5809	-5.6	2.0E-08	8.7E-08
ENSG00000261770	ENSG00000261770	novel transcript	60	-1.43	0.2544	-5.6	2.0E-08	8.7E-08
ENSG00000165905	LARGE2	LARGE xylosyl- and glucuronyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:16522]	66	-1.34	0.2387	-5.6	2.0E-08	8.8E-08
ENSG00000171533	MAP6	microtubule associated protein 6 [Source:HGNC Symbol;Acc:HGNC:6868]	25	-2.44	0.4356	-5.6	2.2E-08	9.7E-08
ENSG00000228626	ENSG00000228626	novel pseudogene	23	-2.57	0.4591	-5.6	2.2E-08	9.7E-08
ENSG00000139174	PRICKLE1	prickle planar cell polarity protein 1 [Source:HGNC Symbol;Acc:HGNC:17019]	120	-0.95	0.1691	-5.6	2.2E-08	9.8E-08
ENSG00000260265	LINC02562	long intergenic non-protein coding RNA 2562 [Source:HGNC Symbol;Acc:HGNC:53602]	19	-3.14	0.5615	-5.6	2.3E-08	1.0E-07
ENSG00000118971	CCND2	cyclin D2 [Source:HGNC Symbol;Acc:HGNC:1583]	32	-2.11	0.3771	-5.6	2.3E-08	1.0E-07
ENSG00000182575	NXP3	neurexophilin 3 [Source:HGNC Symbol;Acc:HGNC:8077]	179	-0.78	0.1398	-5.6	2.4E-08	1.1E-07
ENSG00000254535	PABPC4L	poly(A) binding protein cytoplasmic 4 like [Source:HGNC Symbol;Acc:HGNC:31955]	21	-6.84	1.2271	-5.6	2.5E-08	1.1E-07
ENSG00000089116	LHX5	LIM homeobox 5 [Source:HGNC Symbol;Acc:HGNC:14216]	21	-2.72	0.4885	-5.6	2.5E-08	1.1E-07
ENSG00000024862	CCDC28A	coiled-coil domain containing 28A [Source:HGNC Symbol;Acc:HGNC:21098]	178	-0.80	0.1431	-5.6	2.5E-08	1.1E-07

ENSG00000138756	BMP2K	BMP2 inducible kinase [Source:HGNC Symbol;Acc:HGNC:18041]	330	-0.58	0.1050	-5.6	2.6E-08	1.1E-07
ENSG00000158517	NCF1	neutrophil cytosolic factor 1 [Source:HGNC Symbol;Acc:HGNC:7660]	147	-2.35	0.4234	-5.6	2.7E-08	1.2E-07
ENSG00000205903	ZNF316	zinc finger protein 316 [Source:HGNC Symbol;Acc:HGNC:13843]	1642	-0.56	0.1003	-5.6	2.7E-08	1.2E-07
ENSG00000153064	BANK1	B cell scaffold protein with ankyrin repeats 1 [Source:HGNC Symbol;Acc:HGNC:18233]	139	-0.92	0.1652	-5.6	2.8E-08	1.2E-07
ENSG00000215039	CD27-AS1	CD27 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:43896]	81	-1.19	0.2134	-5.6	2.8E-08	1.2E-07
ENSG00000152049	KCNE4	potassium voltage-gated channel subfamily E regulatory subunit 4 [Source:HGNC Symbol;Acc:HGNC:624]	26	-2.49	0.4486	-5.6	2.8E-08	1.2E-07
ENSG0000049089	COL9A2	collagen type IX alpha 2 chain [Source:HGNC Symbol;Acc:HGNC:2218]	51	-1.65	0.2969	-5.5	2.9E-08	1.3E-07
ENSG00000286970	ENSG000002	novel transcript, antisense to ANKH	19	-2.93	0.5295	-5.5	3.0E-08	1.3E-07
ENSG00000147251	DOCK11	dedicator of cytokinesis 11 [Source:HGNC Symbol;Acc:HGNC:23483]	134	-0.99	0.1797	-5.5	3.1E-08	1.4E-07
ENSG00000187474	FPR3	formyl peptide receptor 3 [Source:HGNC Symbol;Acc:HGNC:3828]	19	-3.03	0.5478	-5.5	3.2E-08	1.4E-07
ENSG00000021300	PLEKHB1	pleckstrin homology domain containing B1 [Source:HGNC Symbol;Acc:HGNC:19079]	28	-2.15	0.3897	-5.5	3.2E-08	1.4E-07
ENSG00000169291	SHE	Src homology 2 domain containing E [Source:HGNC Symbol;Acc:HGNC:27004]	22	-2.69	0.4865	-5.5	3.3E-08	1.4E-07
ENSG00000119535	CSF3R	colony stimulating factor 3 receptor [Source:HGNC Symbol;Acc:HGNC:2439]	35	-1.96	0.3555	-5.5	3.4E-08	1.5E-07
ENSG00000149809	TM7SF2	transmembrane 7 superfamily member 2 [Source:HGNC Symbol;Acc:HGNC:11863]	131	-0.94	0.1696	-5.5	3.4E-08	1.5E-07
ENSG00000124212	PTGIS	prostaglandin I2 synthase [Source:HGNC Symbol;Acc:HGNC:9603]	42	-1.74	0.3156	-5.5	3.6E-08	1.6E-07
ENSG00000188559	RALGAPA2	Ral GTPase activating protein catalytic subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:16207]	257	-0.65	0.1174	-5.5	3.8E-08	1.7E-07
ENSG00000152953	STK32B	serine/threonine kinase 32B [Source:HGNC Symbol;Acc:HGNC:14217]	97	-1.07	0.1948	-5.5	3.9E-08	1.7E-07
ENSG00000056736	IL17RB	interleukin 17 receptor B [Source:HGNC Symbol;Acc:HGNC:18015]	101	-1.15	0.2101	-5.5	3.9E-08	1.7E-07
ENSG00000101928	MOSPD1	motile sperm domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25235]	465	-0.50	0.0913	-5.5	4.0E-08	1.7E-07
ENSG00000079385	CEACAM1	CEA cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:1814]	343	-0.58	0.1060	-5.5	4.1E-08	1.8E-07
ENSG00000206432	TMEM200C	transmembrane protein 200C [Source:HGNC Symbol;Acc:HGNC:37208]	17	-4.99	0.9106	-5.5	4.2E-08	1.8E-07
ENSG00000146426	TIAM2	TIAM Rac1 associated GEF 2 [Source:HGNC Symbol;Acc:HGNC:11806]	277	-0.63	0.1152	-5.5	4.2E-08	1.8E-07
ENSG00000164331	ANKRA2	ankyrin repeat family A member 2 [Source:HGNC Symbol;Acc:HGNC:13208]	173	-0.80	0.1464	-5.5	4.3E-08	1.9E-07
ENSG00000251218	ENSG000002	novel transcript	12	-6.92	1.2634	-5.5	4.4E-08	1.9E-07
ENSG00000005812	FBXL3	F-box and leucine rich repeat protein 3 [Source:HGNC Symbol;Acc:HGNC:13599]	316	-0.57	0.1048	-5.5	4.4E-08	1.9E-07
ENSG00000237330	RNF223	ring finger protein 223 [Source:HGNC Symbol;Acc:HGNC:40020]	322	-0.59	0.1075	-5.5	4.5E-08	1.9E-07
ENSG00000198435	NRARP	NOTCH regulated ankyrin repeat protein [Source:HGNC Symbol;Acc:HGNC:33843]	84	-1.19	0.2171	-5.5	4.5E-08	1.9E-07
ENSG00000122122	SASH3	SAM and SH3 domain containing 3 [Source:HGNC Symbol;Acc:HGNC:15975]	22	-2.48	0.4528	-5.5	4.5E-08	2.0E-07
ENSG00000286786	ENSG000002	novel transcript, antisense to RASGRP1	17	-5.04	0.9212	-5.5	4.6E-08	2.0E-07
ENSG00000120925	RNF170	ring finger protein 170 [Source:HGNC Symbol;Acc:HGNC:25358]	237	-0.66	0.1204	-5.5	4.6E-08	2.0E-07
ENSG00000145103	ILDR1	immunoglobulin like domain containing receptor 1 [Source:HGNC Symbol;Acc:HGNC:28741]	20	-6.72	1.2289	-5.5	4.6E-08	2.0E-07
ENSG00000177108	ZDHHC22	zinc finger DHHC-type palmitoyltransferase 22 [Source:HGNC Symbol;Acc:HGNC:20106]	46	-1.55	0.2833	-5.5	4.8E-08	2.1E-07
ENSG00000226965	ENSG000002	novel transcript	19	-6.70	1.2294	-5.4	5.1E-08	2.2E-07
ENSG00000154736	ADAMTS5	ADAM metallopeptidase with thrombospondin type 1 motif 5 [Source:HGNC Symbol;Acc:HGNC:221]	19	-6.69	1.2278	-5.4	5.2E-08	2.2E-07
ENSG00000153956	CACNA2D1	calcium voltage-gated channel auxiliary subunit alpha2delta 1 [Source:HGNC Symbol;Acc:HGNC:1399]	17	-3.47	0.6376	-5.4	5.3E-08	2.3E-07
ENSG00000233718	MYCNOS	MYCN opposite strand [Source:HGNC Symbol;Acc:HGNC:16911]	11	-6.86	1.2626	-5.4	5.4E-08	2.3E-07
ENSG00000183032	SLC25A21	solute carrier family 25 member 21 [Source:HGNC Symbol;Acc:HGNC:14411]	29	-2.12	0.3905	-5.4	5.6E-08	2.4E-07
ENSG00000182326	C1S	complement C1s [Source:HGNC Symbol;Acc:HGNC:1247]	55	-1.48	0.2734	-5.4	5.7E-08	2.4E-07
ENSG00000155957	TMBIM4	transmembrane BAX inhibitor motif containing 4 [Source:HGNC Symbol;Acc:HGNC:24257]	182	-0.78	0.1445	-5.4	5.7E-08	2.4E-07
ENSG00000136689	IL1RN	interleukin 1 receptor antagonist [Source:HGNC Symbol;Acc:HGNC:6000]	26	-2.22	0.4095	-5.4	5.7E-08	2.4E-07
ENSG00000186487	MYT1L	myelin transcription factor 1 like [Source:HGNC Symbol;Acc:HGNC:7623]	11	-6.87	1.2667	-5.4	5.8E-08	2.5E-07
ENSG00000171450	CDK5R2	cyclin dependent kinase 5 regulatory subunit 2 [Source:HGNC Symbol;Acc:HGNC:1776]	57	-1.43	0.2646	-5.4	6.0E-08	2.6E-07

ENSG00000149043	SYT8	synaptotagmin 8 [Source:HGNC Symbol;Acc:HGNC:19264]	76	-1.17	0.2171	-5.4	6.3E-08	2.7E-07
ENSG00000259953	ENSG000002	novel transcript, overlapping SUSD1	57	-1.43	0.2649	-5.4	6.5E-08	2.8E-07
ENSG00000125247	TMTC4	transmembrane O-mannosyltransferase targeting cadherins 4 [Source:HGNC Symbol;Acc:HGNC:25904]	143	-0.86	0.1597	-5.4	6.6E-08	2.8E-07
ENSG00000128713	HOXD11	homeobox D11 [Source:HGNC Symbol;Acc:HGNC:5134]	35	-1.79	0.3321	-5.4	6.6E-08	2.8E-07
ENSG00000134253	TRIM45	tripartite motif containing 45 [Source:HGNC Symbol;Acc:HGNC:19018]	377	-0.52	0.0958	-5.4	6.7E-08	2.9E-07
ENSG00000287420	ENSG000002	novel transcript	16	-4.10	0.7602	-5.4	6.7E-08	2.9E-07
ENSG00000203791	EEF1AKMT2	EEF1A lysine methyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:33787]	128	-0.91	0.1681	-5.4	6.9E-08	2.9E-07
ENSG00000023892	DEF6	DEF6 guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:2760]	23	-2.36	0.4384	-5.4	7.0E-08	3.0E-07
ENSG00000005513	SOX8	SRY-box transcription factor 8 [Source:HGNC Symbol;Acc:HGNC:11203]	33	-1.90	0.3517	-5.4	7.0E-08	3.0E-07
ENSG00000251474	RPL32P3	ribosomal protein L32 pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:27024]	317	-0.60	0.1121	-5.4	7.1E-08	3.0E-07
ENSG00000265944	LINC01387	long intergenic non-protein coding RNA 1387 [Source:HGNC Symbol;Acc:HGNC:44660]	11	-6.82	1.2658	-5.4	7.2E-08	3.1E-07
ENSG00000167851	CD300A	CD300a molecule [Source:HGNC Symbol;Acc:HGNC:19319]	22	-2.52	0.4684	-5.4	7.8E-08	3.3E-07
ENSG00000171051	FPR1	formyl peptide receptor 1 [Source:HGNC Symbol;Acc:HGNC:3826]	20	-2.87	0.5337	-5.4	7.9E-08	3.3E-07
ENSG00000139737	SLAIN1	SLAIN motif family member 1 [Source:HGNC Symbol;Acc:HGNC:26387]	30	-2.16	0.4020	-5.4	8.0E-08	3.4E-07
ENSG00000140254	DUOXA1	dual oxidase maturation factor 1 [Source:HGNC Symbol;Acc:HGNC:26507]	15	-3.83	0.7164	-5.4	8.6E-08	3.6E-07
ENSG00000102032	RENBP	renin binding protein [Source:HGNC Symbol;Acc:HGNC:9959]	36	-2.03	0.3801	-5.4	8.8E-08	3.7E-07
ENSG00000134490	TMEM241	transmembrane protein 241 [Source:HGNC Symbol;Acc:HGNC:31723]	344	-0.56	0.1044	-5.4	8.8E-08	3.7E-07
ENSG00000157873	TNFRSF14	TNF receptor superfamily member 14 [Source:HGNC Symbol;Acc:HGNC:11912]	53	-1.58	0.2960	-5.3	8.9E-08	3.7E-07
ENSG00000091428	RAPGEF4	Rap guanine nucleotide exchange factor 4 [Source:HGNC Symbol;Acc:HGNC:16626]	16	-3.84	0.7185	-5.3	8.9E-08	3.8E-07
ENSG00000176884	GRIN1	glutamate ionotropic receptor NMDA type subunit 1 [Source:HGNC Symbol;Acc:HGNC:4584]	33	-1.95	0.3642	-5.3	9.0E-08	3.8E-07
ENSG00000136098	NEK3	NIMA related kinase 3 [Source:HGNC Symbol;Acc:HGNC:7746]	68	-1.21	0.2271	-5.3	9.7E-08	4.1E-07
ENSG00000166839	ANKDD1A	ankyrin repeat and death domain containing 1A [Source:HGNC Symbol;Acc:HGNC:28002]	116	-0.91	0.1714	-5.3	9.7E-08	4.1E-07
ENSG00000138675	FGF5	fibroblast growth factor 5 [Source:HGNC Symbol;Acc:HGNC:3683]	15	-4.37	0.8204	-5.3	1.0E-07	4.2E-07
ENSG00000236044	FABP5P2	fatty acid binding protein 5 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:31060]	29	-2.05	0.3848	-5.3	1.0E-07	4.3E-07
ENSG00000258314	ENSG000002	novel transcript	25	-2.26	0.4241	-5.3	1.0E-07	4.3E-07
ENSG00000172296	SPTLC3	serine palmitoyltransferase long chain base subunit 3 [Source:HGNC Symbol;Acc:HGNC:16253]	338	-0.56	0.1048	-5.3	1.0E-07	4.3E-07
ENSG00000021826	CPS1	carbamoyl-phosphate synthase 1 [Source:HGNC Symbol;Acc:HGNC:2323]	27	-2.08	0.3914	-5.3	1.0E-07	4.4E-07
ENSG00000175899	A2M	alpha-2-macroglobulin [Source:HGNC Symbol;Acc:HGNC:7]	79	-1.38	0.2588	-5.3	1.1E-07	4.5E-07
ENSG00000164434	FABP7	fatty acid binding protein 7 [Source:HGNC Symbol;Acc:HGNC:3562]	24	-2.54	0.4795	-5.3	1.1E-07	4.8E-07
ENSG00000232077	LINC01031	long intergenic non-protein coding RNA 1031 [Source:HGNC Symbol;Acc:HGNC:49017]	17	-6.55	1.2368	-5.3	1.2E-07	4.9E-07
ENSG00000124785	NRN1	neuritin 1 [Source:HGNC Symbol;Acc:HGNC:17972]	42	-1.62	0.3051	-5.3	1.2E-07	5.0E-07
ENSG00000239521	CASTOR3	CASTOR family member 3 [Source:HGNC Symbol;Acc:HGNC:29954]	169	-0.80	0.1510	-5.3	1.2E-07	5.0E-07
ENSG00000185156	MFSD6L	major facilitator superfamily domain containing 6 like [Source:HGNC Symbol;Acc:HGNC:26656]	16	-3.59	0.6779	-5.3	1.2E-07	5.1E-07
ENSG00000286385	ENSG000002	novel transcript	10	-6.73	1.2720	-5.3	1.2E-07	5.1E-07
ENSG00000131095	GFAP	glial fibrillary acidic protein [Source:HGNC Symbol;Acc:HGNC:4235]	756	-2.87	0.5425	-5.3	1.2E-07	5.2E-07
ENSG00000112367	FIG4	FIG4 phosphoinositide 5-phosphatase [Source:HGNC Symbol;Acc:HGNC:16873]	178	-0.72	0.1371	-5.3	1.3E-07	5.3E-07
ENSG00000159445	THEM4	thioesterase superfamily member 4 [Source:HGNC Symbol;Acc:HGNC:17947]	259	-0.62	0.1174	-5.3	1.3E-07	5.4E-07
ENSG00000105255	FSD1	fibronectin type III and SPRY domain containing 1 [Source:HGNC Symbol;Acc:HGNC:13745]	181	-0.74	0.1402	-5.3	1.3E-07	5.5E-07
ENSG00000234432	ENSG000002	novel transcript	96	-1.04	0.1980	-5.3	1.3E-07	5.5E-07
ENSG00000181274	FRAT2	FRAT regulator of WNT signaling pathway 2 [Source:HGNC Symbol;Acc:HGNC:16048]	260	-0.63	0.1191	-5.3	1.4E-07	5.7E-07
ENSG00000109794	FAM149A	family with sequence similarity 149 member A [Source:HGNC Symbol;Acc:HGNC:24527]	92	-1.02	0.1939	-5.3	1.4E-07	5.9E-07
ENSG00000204021	LIPK	lipase family member K [Source:HGNC Symbol;Acc:HGNC:23444]	207	-0.71	0.1353	-5.3	1.5E-07	6.1E-07

ENSG00000102934	PLLP	plasmolipin [Source:HGNC Symbol;Acc:HGNC:18553]	53	-1.41	0.2685	-5.3	1.5E-07	6.1E-07
ENSG00000184730	APOBR	apolipoprotein B receptor [Source:HGNC Symbol;Acc:HGNC:24087]	39	-1.66	0.3161	-5.3	1.5E-07	6.1E-07
ENSG00000153391	INO80C	INO80 complex subunit C [Source:HGNC Symbol;Acc:HGNC:26994]	271	-0.60	0.1148	-5.3	1.5E-07	6.2E-07
ENSG00000179862	CITED4	Cbp/p300 interacting transactivator with Glu/Asp rich carboxy-terminal domain 4 [Source:HGNC Symbol;Acc:HGNC:26994]	774	-0.85	0.1613	-5.3	1.5E-07	6.3E-07
ENSG00000277738	ENSG00000277738	novel transcript	18	-2.82	0.5383	-5.2	1.5E-07	6.3E-07
ENSG00000274180	NATD1	N-acetyltransferase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:30770]	226	-0.64	0.1223	-5.2	1.6E-07	6.5E-07
ENSG00000234996	ACTG1P25	actin gamma 1 pseudogene 25 [Source:HGNC Symbol;Acc:HGNC:54872]	33	-1.78	0.3399	-5.2	1.6E-07	6.6E-07
ENSG00000166927	MS4A7	membrane spanning 4-domains A7 [Source:HGNC Symbol;Acc:HGNC:13378]	23	-2.34	0.4462	-5.2	1.6E-07	6.7E-07
ENSG00000249803	ENSG00000249803	novel transcript	10	-6.68	1.2749	-5.2	1.6E-07	6.7E-07
ENSG00000259038	ENSG00000259038	novel transcript, antisense to RAD51L1	19	-2.77	0.5289	-5.2	1.7E-07	6.9E-07
ENSG00000169884	WNT10B	Wnt family member 10B [Source:HGNC Symbol;Acc:HGNC:12775]	57	-1.38	0.2639	-5.2	1.7E-07	7.0E-07
ENSG00000141441	GAREM1	GRB2 associated regulator of MAPK1 subtype 1 [Source:HGNC Symbol;Acc:HGNC:26136]	248	-0.62	0.1191	-5.2	1.7E-07	7.0E-07
ENSG00000168843	FSTL5	follistatin like 5 [Source:HGNC Symbol;Acc:HGNC:21386]	14	-3.96	0.7573	-5.2	1.7E-07	7.1E-07
ENSG00000174028	FAM3C2P	family with sequence similarity 3 member C2, pseudogene [Source:HGNC Symbol;Acc:HGNC:34501]	222	-0.68	0.1308	-5.2	1.7E-07	7.1E-07
ENSG00000164929	BAALC	BAALC binder of MAP3K1 and KLF4 [Source:HGNC Symbol;Acc:HGNC:14333]	34	-1.87	0.3579	-5.2	1.7E-07	7.1E-07
ENSG0000015592	STMN4	stathmin 4 [Source:HGNC Symbol;Acc:HGNC:16078]	18	-2.98	0.5716	-5.2	1.8E-07	7.4E-07
ENSG00000184860	SDR42E1	short chain dehydrogenase/reductase family 42E, member 1 [Source:HGNC Symbol;Acc:HGNC:29834]	358	-0.52	0.0999	-5.2	1.8E-07	7.4E-07
ENSG00000214553	LRRC37A11P	leucine rich repeat containing 37 member A11, pseudogene [Source:HGNC Symbol;Acc:HGNC:43815]	14	-4.30	0.8244	-5.2	1.8E-07	7.6E-07
ENSG00000197147	LRRC8B	leucine rich repeat containing 8 VRAC subunit B [Source:HGNC Symbol;Acc:HGNC:30692]	344	-0.52	0.1006	-5.2	1.8E-07	7.6E-07
ENSG00000253660	ENSG00000253660	novel transcript	18	-2.75	0.5268	-5.2	1.9E-07	7.6E-07
ENSG00000106852	LHX6	LIM homeobox 6 [Source:HGNC Symbol;Acc:HGNC:21735]	41	-1.58	0.3038	-5.2	1.9E-07	7.6E-07
ENSG00000233901	LINC01503	long intergenic non-protein coding RNA 1503 [Source:HGNC Symbol;Acc:HGNC:51184]	18	-2.84	0.5454	-5.2	1.9E-07	7.7E-07
ENSG00000107742	SPOCK2	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 2 [Source:HGNC Symbol;Acc:HGNC:13564]	138	-0.85	0.1636	-5.2	1.9E-07	7.8E-07
ENSG00000105246	EBI3	Epstein-Barr virus induced 3 [Source:HGNC Symbol;Acc:HGNC:3129]	25	-2.14	0.4121	-5.2	2.0E-07	8.2E-07
ENSG00000213186	TRIM59	tripartite motif containing 59 [Source:HGNC Symbol;Acc:HGNC:30834]	227	-0.65	0.1255	-5.2	2.0E-07	8.3E-07
ENSG00000123560	PLP1	proteolipid protein 1 [Source:HGNC Symbol;Acc:HGNC:9086]	38	-1.77	0.3412	-5.2	2.0E-07	8.3E-07
ENSG00000124749	COL21A1	collagen type XXI alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:17025]	10	-6.64	1.2771	-5.2	2.0E-07	8.3E-07
ENSG00000076770	MBNL3	muscleblind like splicing regulator 3 [Source:HGNC Symbol;Acc:HGNC:20564]	92	-1.06	0.2041	-5.2	2.1E-07	8.5E-07
ENSG00000136158	SPRY2	sprouty RTK signaling antagonist 2 [Source:HGNC Symbol;Acc:HGNC:11270]	285	-0.60	0.1156	-5.2	2.1E-07	8.5E-07
ENSG00000242861	ENSG00000242861	novel transcript	42	-1.55	0.2990	-5.2	2.1E-07	8.6E-07
ENSG00000082014	SMARCD3	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 [Source:HGNC Symbol;Acc:HGNC:26136]	123	-0.86	0.1656	-5.2	2.1E-07	8.6E-07
ENSG00000283000	LINC02635	long intergenic non-protein coding RNA 2635 [Source:HGNC Symbol;Acc:HGNC:54118]	93	-1.00	0.1936	-5.2	2.2E-07	8.9E-07
ENSG00000197506	SLC28A3	solute carrier family 28 member 3 [Source:HGNC Symbol;Acc:HGNC:16484]	23	-2.35	0.4537	-5.2	2.3E-07	9.3E-07
ENSG00000130545	CRB3	crumbs cell polarity complex component 3 [Source:HGNC Symbol;Acc:HGNC:20237]	183	-0.79	0.1519	-5.2	2.3E-07	9.3E-07
ENSG00000171517	LPAR3	lysophosphatidic acid receptor 3 [Source:HGNC Symbol;Acc:HGNC:14298]	56	-1.38	0.2669	-5.2	2.3E-07	9.3E-07
ENSG00000007402	CACNA2D2	calcium voltage-gated channel auxiliary subunit alpha2delta 2 [Source:HGNC Symbol;Acc:HGNC:1400]	99	-0.99	0.1906	-5.2	2.4E-07	9.6E-07
ENSG00000111405	ENDOU	endonuclease, poly(U) specific [Source:HGNC Symbol;Acc:HGNC:14369]	16	-6.43	1.2443	-5.2	2.4E-07	9.7E-07
ENSG00000257027	ENSG00000257027	novel transcript	42	-1.57	0.3044	-5.2	2.4E-07	9.7E-07
ENSG00000165115	KIF27	kinesin family member 27 [Source:HGNC Symbol;Acc:HGNC:18632]	97	-1.02	0.1981	-5.2	2.5E-07	1.0E-06
ENSG00000185442	FAM174B	family with sequence similarity 174 member B [Source:HGNC Symbol;Acc:HGNC:34339]	250	-0.64	0.1238	-5.2	2.6E-07	1.0E-06
ENSG00000198774	RASSF9	Ras association domain family member 9 [Source:HGNC Symbol;Acc:HGNC:15739]	9	-6.61	1.2838	-5.2	2.6E-07	1.0E-06
ENSG00000168026	TTC21A	tetratricopeptide repeat domain 21A [Source:HGNC Symbol;Acc:HGNC:30761]	89	-1.04	0.2010	-5.1	2.6E-07	1.1E-06

ENSG00000147364	FBXO25	F-box protein 25 [Source:HGNC Symbol;Acc:HGNC:13596]	192	-0.68	0.1316	-5.1	2.6E-07	1.1E-06
ENSG00000137462	TLR2	toll like receptor 2 [Source:HGNC Symbol;Acc:HGNC:11848]	29	-1.94	0.3772	-5.1	2.8E-07	1.1E-06
ENSG00000135744	AGT	angiotensinogen [Source:HGNC Symbol;Acc:HGNC:333]	14	-3.69	0.7185	-5.1	2.8E-07	1.1E-06
ENSG00000130005	GAMT	guanidinoacetate N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:4136]	431	-0.51	0.1001	-5.1	2.8E-07	1.1E-06
ENSG00000130150	MOSPD2	motile sperm domain containing 2 [Source:HGNC Symbol;Acc:HGNC:28381]	234	-0.63	0.1224	-5.1	2.8E-07	1.1E-06
ENSG00000130766	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:HGNC:20746]	282	-0.60	0.1160	-5.1	2.9E-07	1.2E-06
ENSG00000139910	NOVA1	NOVA alternative splicing regulator 1 [Source:HGNC Symbol;Acc:HGNC:7886]	19	-3.02	0.5886	-5.1	2.9E-07	1.2E-06
ENSG00000196659	TTC30B	tetratricopeptide repeat domain 30B [Source:HGNC Symbol;Acc:HGNC:26425]	142	-0.80	0.1565	-5.1	3.0E-07	1.2E-06
ENSG00000069493	CLEC2D	C-type lectin domain family 2 member D [Source:HGNC Symbol;Acc:HGNC:14351]	133	-0.82	0.1604	-5.1	3.1E-07	1.2E-06
ENSG00000010671	BTK	Bruton tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:1133]	24	-2.18	0.4257	-5.1	3.1E-07	1.2E-06
ENSG00000085382	HACE1	HECT domain and ankyrin repeat containing E3 ubiquitin protein ligase 1 [Source:HGNC Symbol;Acc:HGNC:1133]	164	-0.77	0.1515	-5.1	3.1E-07	1.3E-06
ENSG00000181982	CCDC149	coiled-coil domain containing 149 [Source:HGNC Symbol;Acc:HGNC:25405]	242	-0.60	0.1179	-5.1	3.1E-07	1.3E-06
ENSG00000184486	POU3F2	POU class 3 homeobox 2 [Source:HGNC Symbol;Acc:HGNC:9215]	15	-3.18	0.6229	-5.1	3.2E-07	1.3E-06
ENSG00000145242	EPHA5	EPH receptor A5 [Source:HGNC Symbol;Acc:HGNC:3389]	18	-2.70	0.5277	-5.1	3.2E-07	1.3E-06
ENSG00000053438	NNAT	neuronatin [Source:HGNC Symbol;Acc:HGNC:7860]	87	-1.03	0.2006	-5.1	3.2E-07	1.3E-06
ENSG00000068831	RASGRP2	RAS guanyl releasing protein 2 [Source:HGNC Symbol;Acc:HGNC:9879]	25	-2.27	0.4439	-5.1	3.3E-07	1.3E-06
ENSG00000203710	CR1	complement C3b/C4b receptor 1 (Knops blood group) [Source:HGNC Symbol;Acc:HGNC:2334]	20	-2.75	0.5396	-5.1	3.3E-07	1.3E-06
ENSG00000280206	ENSG00000280206	novel transcript	129	-0.85	0.1675	-5.1	3.4E-07	1.3E-06
ENSG00000204121	ECEL1P1	endothelin converting enzyme like 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:14017]	43	-1.59	0.3121	-5.1	3.4E-07	1.4E-06
ENSG00000115226	FNDC4	fibronectin type III domain containing 4 [Source:HGNC Symbol;Acc:HGNC:20239]	109	-0.90	0.1772	-5.1	3.4E-07	1.4E-06
ENSG00000183671	GPR1	G protein-coupled receptor 1 [Source:HGNC Symbol;Acc:HGNC:4463]	133	-0.82	0.1618	-5.1	3.4E-07	1.4E-06
ENSG00000113721	PDGFRB	platelet derived growth factor receptor beta [Source:HGNC Symbol;Acc:HGNC:8804]	28	-1.98	0.3891	-5.1	3.4E-07	1.4E-06
ENSG00000106780	MEGF9	multiple EGF like domains 9 [Source:HGNC Symbol;Acc:HGNC:3234]	186	-0.73	0.1434	-5.1	3.4E-07	1.4E-06
ENSG00000250328	MGC32805	uncharacterized LOC153163 [Source:NCBI gene (formerly Entrezgene);Acc:153163]	17	-5.55	1.0887	-5.1	3.5E-07	1.4E-06
ENSG00000146122	DAAM2	dishevelled associated activator of morphogenesis 2 [Source:HGNC Symbol;Acc:HGNC:18143]	28	-2.06	0.4058	-5.1	3.7E-07	1.5E-06
ENSG00000176490	DIRAS1	DIRAS family GTPase 1 [Source:HGNC Symbol;Acc:HGNC:19127]	191	-0.73	0.1433	-5.1	3.8E-07	1.5E-06
ENSG00000287860	ENSG00000287860	novel transcript	15	-3.30	0.6506	-5.1	3.9E-07	1.6E-06
ENSG00000175087	PDIK1L	PDLIM1 interacting kinase 1 like [Source:HGNC Symbol;Acc:HGNC:18981]	312	-0.59	0.1163	-5.1	4.0E-07	1.6E-06
ENSG00000159871	LYPD5	LY6/PLAUR domain containing 5 [Source:HGNC Symbol;Acc:HGNC:26397]	318	-0.54	0.1072	-5.1	4.1E-07	1.6E-06
ENSG00000110975	SYT10	synaptotagmin 10 [Source:HGNC Symbol;Acc:HGNC:19266]	14	-4.71	0.9320	-5.1	4.2E-07	1.7E-06
ENSG00000254153	ENSG00000254153	novel transcript	15	-3.31	0.6552	-5.1	4.3E-07	1.7E-06
ENSG00000138190	EXOC6	exocyst complex component 6 [Source:HGNC Symbol;Acc:HGNC:23196]	248	-0.61	0.1203	-5.1	4.4E-07	1.7E-06
ENSG00000163462	TRIM46	tripartite motif containing 46 [Source:HGNC Symbol;Acc:HGNC:19019]	55	-1.41	0.2786	-5.0	4.4E-07	1.7E-06
ENSG00000154553	PDLIM3	PDZ and LIM domain 3 [Source:HGNC Symbol;Acc:HGNC:20767]	15	-3.48	0.6895	-5.0	4.4E-07	1.8E-06
ENSG00000240122	FABP5P11	fatty acid binding protein 5 pseudogene 11 [Source:HGNC Symbol;Acc:HGNC:19328]	15	-3.14	0.6230	-5.0	4.5E-07	1.8E-06
ENSG00000204060	FOXO6	forkhead box O6 [Source:HGNC Symbol;Acc:HGNC:24814]	23	-2.25	0.4464	-5.0	4.6E-07	1.8E-06
ENSG00000132386	SERPINF1	serpin family F member 1 [Source:HGNC Symbol;Acc:HGNC:8824]	90	-0.98	0.1953	-5.0	4.6E-07	1.8E-06
ENSG00000166394	CYB5R2	cytochrome b5 reductase 2 [Source:HGNC Symbol;Acc:HGNC:24376]	67	-1.23	0.2438	-5.0	4.8E-07	1.9E-06
ENSG00000277718	LINC02255	long intergenic non-protein coding RNA 2255 [Source:HGNC Symbol;Acc:HGNC:53153]	15	-4.79	0.9523	-5.0	4.8E-07	1.9E-06
ENSG00000180287	PLD5	phospholipase D family member 5 [Source:HGNC Symbol;Acc:HGNC:26879]	16	-3.04	0.6053	-5.0	4.9E-07	1.9E-06
ENSG00000169777	TAS2R1	taste 2 receptor member 1 [Source:HGNC Symbol;Acc:HGNC:14909]	15	-3.11	0.6199	-5.0	5.1E-07	2.0E-06
ENSG00000103569	AQP9	aquaporin 9 [Source:HGNC Symbol;Acc:HGNC:643]	17	-2.81	0.5612	-5.0	5.3E-07	2.1E-06

ENSG00000198914	POU3F3	POU class 3 homeobox 3 [Source:HGNC Symbol;Acc:HGNC:9216]	14	-3.44	0.6868	-5.0	5.5E-07	2.1E-06
ENSG00000137941	TTL7	tubulin tyrosine ligase like 7 [Source:HGNC Symbol;Acc:HGNC:26242]	188	-0.68	0.1366	-5.0	5.5E-07	2.1E-06
ENSG00000104368	PLAT	plasminogen activator, tissue type [Source:HGNC Symbol;Acc:HGNC:9051]	29	-1.89	0.3779	-5.0	5.5E-07	2.2E-06
ENSG00000139304	PTPRQ	protein tyrosine phosphatase receptor type Q [Source:HGNC Symbol;Acc:HGNC:9679]	16	-2.93	0.5867	-5.0	5.7E-07	2.2E-06
ENSG00000050438	SLC4A8	solute carrier family 4 member 8 [Source:HGNC Symbol;Acc:HGNC:11034]	80	-1.20	0.2393	-5.0	5.8E-07	2.3E-06
ENSG00000107014	RLN2	relaxin 2 [Source:HGNC Symbol;Acc:HGNC:10027]	17	-2.93	0.5873	-5.0	5.9E-07	2.3E-06
ENSG00000225783	MIAT	myocardial infarction associated transcript [Source:HGNC Symbol;Acc:HGNC:33425]	31	-1.87	0.3744	-5.0	5.9E-07	2.3E-06
ENSG00000159173	TNNI1	troponin I1, slow skeletal type [Source:HGNC Symbol;Acc:HGNC:11945]	60	-1.22	0.2438	-5.0	5.9E-07	2.3E-06
ENSG00000111981	ULBP1	UL16 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:14893]	78	-1.06	0.2119	-5.0	6.2E-07	2.4E-06
ENSG00000137474	MYO7A	myosin VIIA [Source:HGNC Symbol;Acc:HGNC:7606]	97	-0.96	0.1934	-5.0	6.3E-07	2.4E-06
ENSG00000105967	TFEC	transcription factor EC [Source:HGNC Symbol;Acc:HGNC:11754]	14	-3.62	0.7275	-5.0	6.4E-07	2.5E-06
ENSG00000237854	LINC00674	long intergenic non-protein coding RNA 674 [Source:HGNC Symbol;Acc:HGNC:44355]	172	-1.50	0.3008	-5.0	6.4E-07	2.5E-06
ENSG00000248727	LINC01948	long intergenic non-protein coding RNA 1948 [Source:HGNC Symbol;Acc:HGNC:52772]	56	-1.25	0.2520	-5.0	6.5E-07	2.5E-06
ENSG00000126561	STAT5A	signal transducer and activator of transcription 5A [Source:HGNC Symbol;Acc:HGNC:11366]	197	-0.67	0.1343	-5.0	6.6E-07	2.6E-06
ENSG00000141744	PNMT	phenylethanolamine N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:9160]	16	-2.98	0.6019	-5.0	7.1E-07	2.7E-06
ENSG00000135960	EDAR	ectodysplasin A receptor [Source:HGNC Symbol;Acc:HGNC:2895]	16	-2.98	0.6014	-5.0	7.2E-07	2.8E-06
ENSG00000241399	CD302	CD302 molecule [Source:HGNC Symbol;Acc:HGNC:30843]	14	-3.63	0.7336	-5.0	7.2E-07	2.8E-06
ENSG00000187266	EPOR	erythropoietin receptor [Source:HGNC Symbol;Acc:HGNC:3416]	102	-0.92	0.1864	-4.9	7.5E-07	2.9E-06
ENSG00000110934	BIN2	bridging integrator 2 [Source:HGNC Symbol;Acc:HGNC:1053]	28	-2.00	0.4038	-4.9	7.6E-07	2.9E-06
ENSG00000260804	LINC01963	long intergenic non-protein coding RNA 1963 [Source:HGNC Symbol;Acc:HGNC:25283]	52	-1.33	0.2683	-4.9	7.8E-07	3.0E-06
ENSG00000090382	LYZ	lysozyme [Source:HGNC Symbol;Acc:HGNC:6740]	15	-2.99	0.6059	-4.9	7.9E-07	3.1E-06
ENSG00000176165	FOXG1	forkhead box G1 [Source:HGNC Symbol;Acc:HGNC:3811]	16	-2.86	0.5793	-4.9	8.1E-07	3.1E-06
ENSG00000179454	KLHL28	kelch like family member 28 [Source:HGNC Symbol;Acc:HGNC:19741]	223	-0.64	0.1290	-4.9	8.2E-07	3.2E-06
ENSG00000197183	NOL4L	nucleolar protein 4 like [Source:HGNC Symbol;Acc:HGNC:16106]	307	-0.53	0.1070	-4.9	8.6E-07	3.3E-06
ENSG00000204941	PSG5	pregnancy specific beta-1-glycoprotein 5 [Source:HGNC Symbol;Acc:HGNC:9522]	26	-1.92	0.3898	-4.9	8.7E-07	3.4E-06
ENSG00000104848	KCNA7	potassium voltage-gated channel subfamily A member 7 [Source:HGNC Symbol;Acc:HGNC:6226]	54	-1.29	0.2618	-4.9	8.9E-07	3.4E-06
ENSG00000270115	ENSG00000270115	novel transcript	23	-2.13	0.4333	-4.9	8.9E-07	3.4E-06
ENSG00000173221	GLRX	glutaredoxin [Source:HGNC Symbol;Acc:HGNC:4330]	289	-0.58	0.1173	-4.9	9.0E-07	3.4E-06
ENSG00000268879	IGFL1P1	IGF like family member 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:32956]	326	-0.51	0.1037	-4.9	9.0E-07	3.5E-06
ENSG00000227141	ENSG00000227141	centaurin, gamma 2 (CENTG2) pseudogene	13	-4.17	0.8498	-4.9	9.1E-07	3.5E-06
ENSG00000283930	PLD5P1	PLD5 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:55072]	19	-2.45	0.4988	-4.9	9.1E-07	3.5E-06
ENSG00000112796	ENPP5	ectonucleotide pyrophosphatase/phosphodiesterase family member 5 [Source:HGNC Symbol;Acc:HGNC:11740]	68	-1.20	0.2444	-4.9	9.2E-07	3.5E-06
ENSG00000091513	TF	transferrin [Source:HGNC Symbol;Acc:HGNC:11740]	15	-3.02	0.6157	-4.9	9.4E-07	3.6E-06
ENSG00000175556	LONRF3	LON peptidase N-terminal domain and ring finger 3 [Source:HGNC Symbol;Acc:HGNC:21152]	38	-1.56	0.3182	-4.9	9.4E-07	3.6E-06
ENSG00000237624	OXCT2P1	3-oxoacid CoA-transferase 2 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:21627]	32	-1.76	0.3583	-4.9	9.4E-07	3.6E-06
ENSG00000161381	PLXDC1	plexin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:20945]	26	-2.01	0.4114	-4.9	9.7E-07	3.7E-06
ENSG00000183506	PI4KAP2	phosphatidylinositol 4-kinase alpha pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:33577]	29	-1.82	0.3724	-4.9	1.0E-06	3.9E-06
ENSG00000112238	PRDM13	PR/SET domain 13 [Source:HGNC Symbol;Acc:HGNC:13998]	14	-5.36	1.0981	-4.9	1.0E-06	4.0E-06
ENSG00000157502	PWWP3B	PWWP domain containing 3B [Source:HGNC Symbol;Acc:HGNC:26583]	8	-6.34	1.2995	-4.9	1.0E-06	4.0E-06
ENSG00000159899	NPR2	natriuretic peptide receptor 2 [Source:HGNC Symbol;Acc:HGNC:7944]	19	-2.38	0.4885	-4.9	1.1E-06	4.1E-06
ENSG00000133710	SPINK5	serine peptidase inhibitor Kazal type 5 [Source:HGNC Symbol;Acc:HGNC:15464]	30	-1.80	0.3698	-4.9	1.1E-06	4.1E-06
ENSG00000250102	LINC02377	long intergenic non-protein coding RNA 2377 [Source:HGNC Symbol;Acc:HGNC:53300]	8	-6.40	1.3117	-4.9	1.1E-06	4.1E-06

ENSG00000178235	SLITRK1	SLIT and NTRK like family member 1 [Source:HGNC Symbol;Acc:HGNC:20297]	14	-5.37	1.1000	-4.9	1.1E-06	4.1E-06
ENSG00000160325	CACFD1	calcium channel flower domain containing 1 [Source:HGNC Symbol;Acc:HGNC:1365]	129	-0.79	0.1617	-4.9	1.1E-06	4.1E-06
ENSG00000261572	ENSG00000261572	novel transcript, intronic to CMTM8	13	-3.54	0.7287	-4.9	1.2E-06	4.5E-06
ENSG00000165185	KIAA1958	KIAA1958 [Source:HGNC Symbol;Acc:HGNC:23427]	260	-0.60	0.1243	-4.9	1.2E-06	4.7E-06
ENSG00000165914	TTC7B	tetratricopeptide repeat domain 7B [Source:HGNC Symbol;Acc:HGNC:19858]	214	-0.63	0.1292	-4.8	1.2E-06	4.7E-06
ENSG00000162994	CLHC1	clathrin heavy chain linker domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26453]	91	-0.94	0.1930	-4.8	1.3E-06	4.8E-06
ENSG00000286502	ENSG00000286502	novel transcript, antisense to COL5A1	16	-2.78	0.5728	-4.8	1.3E-06	4.8E-06
ENSG00000110079	MS4A4A	membrane spanning 4-domains A4A [Source:HGNC Symbol;Acc:HGNC:13371]	19	-2.39	0.4932	-4.8	1.3E-06	4.8E-06
ENSG00000118432	CNR1	cannabinoid receptor 1 [Source:HGNC Symbol;Acc:HGNC:2159]	21	-2.42	0.4998	-4.8	1.3E-06	4.8E-06
ENSG00000167916	KRT24	keratin 24 [Source:HGNC Symbol;Acc:HGNC:18527]	14	-5.31	1.0975	-4.8	1.3E-06	4.9E-06
ENSG00000149451	ADAM33	ADAM metallopeptidase domain 33 [Source:HGNC Symbol;Acc:HGNC:15478]	12	-4.52	0.9350	-4.8	1.3E-06	5.0E-06
ENSG00000114270	COL7A1	collagen type VII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2214]	215	-0.64	0.1322	-4.8	1.4E-06	5.1E-06
ENSG00000167037	SGSM1	small G protein signaling modulator 1 [Source:HGNC Symbol;Acc:HGNC:29410]	170	-0.70	0.1447	-4.8	1.4E-06	5.2E-06
ENSG00000265519	ENSG00000265519	novel transcript	55	-1.24	0.2573	-4.8	1.4E-06	5.2E-06
ENSG00000143867	OSR1	odd-skipped related transcription factor 1 [Source:HGNC Symbol;Acc:HGNC:8111]	36	-1.61	0.3334	-4.8	1.4E-06	5.2E-06
ENSG00000173535	TNFRSF10C	TNF receptor superfamily member 10c [Source:HGNC Symbol;Acc:HGNC:11906]	14	-3.16	0.6559	-4.8	1.4E-06	5.3E-06
ENSG00000160097	FNDC5	fibronectin type III domain containing 5 [Source:HGNC Symbol;Acc:HGNC:20240]	111	-0.88	0.1830	-4.8	1.4E-06	5.3E-06
ENSG00000229028	KRT223P	keratin 223, pseudogene [Source:HGNC Symbol;Acc:HGNC:32968]	8	-6.29	1.3067	-4.8	1.5E-06	5.5E-06
ENSG00000165821	SALL2	spalt like transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:10526]	20	-2.43	0.5052	-4.8	1.5E-06	5.5E-06
ENSG00000287776	ENSG00000287776	novel transcript	7	-6.28	1.3051	-4.8	1.5E-06	5.5E-06
ENSG00000244274	DBNDD2	dysbindin domain containing 2 [Source:HGNC Symbol;Acc:HGNC:15881]	18	-2.42	0.5024	-4.8	1.5E-06	5.6E-06
ENSG00000167244	IGF2	insulin like growth factor 2 [Source:HGNC Symbol;Acc:HGNC:5466]	12	-6.03	1.2544	-4.8	1.5E-06	5.7E-06
ENSG00000184867	ARMCX2	armadillo repeat containing X-linked 2 [Source:HGNC Symbol;Acc:HGNC:16869]	33	-1.65	0.3441	-4.8	1.5E-06	5.7E-06
ENSG00000251095	ENSG00000251095	novel transcript	14	-3.19	0.6645	-4.8	1.5E-06	5.8E-06
ENSG00000163596	ICA1L	islet cell autoantigen 1 like [Source:HGNC Symbol;Acc:HGNC:14442]	60	-1.23	0.2556	-4.8	1.6E-06	5.9E-06
ENSG00000125378	BMP4	bone morphogenetic protein 4 [Source:HGNC Symbol;Acc:HGNC:1071]	25	-1.99	0.4134	-4.8	1.6E-06	5.9E-06
ENSG00000265246	ENSG00000265246	novel transcript	18	-2.51	0.5230	-4.8	1.6E-06	5.9E-06
ENSG00000276805	ENSG00000276805	general transcription factor Iii (GTF2I) pseudogene	103	-0.94	0.1960	-4.8	1.6E-06	6.0E-06
ENSG00000173214	MFSD4B	major facilitator superfamily domain containing 4B [Source:HGNC Symbol;Acc:HGNC:21053]	108	-0.86	0.1795	-4.8	1.6E-06	6.0E-06
ENSG00000162490	DRAXIN	dorsal inhibitory axon guidance protein [Source:HGNC Symbol;Acc:HGNC:25054]	16	-2.63	0.5486	-4.8	1.6E-06	6.0E-06
ENSG00000196376	SLC35F1	solute carrier family 35 member F1 [Source:HGNC Symbol;Acc:HGNC:21483]	15	-3.11	0.6481	-4.8	1.6E-06	6.1E-06
ENSG00000003989	SLC7A2	solute carrier family 7 member 2 [Source:HGNC Symbol;Acc:HGNC:11060]	19	-2.42	0.5048	-4.8	1.6E-06	6.1E-06
ENSG00000100987	VSX1	visual system homeobox 1 [Source:HGNC Symbol;Acc:HGNC:12723]	13	-3.80	0.7934	-4.8	1.7E-06	6.2E-06
ENSG00000088827	SIGLEC1	sialic acid binding Ig like lectin 1 [Source:HGNC Symbol;Acc:HGNC:11127]	25	-2.18	0.4559	-4.8	1.8E-06	6.6E-06
ENSG00000162409	PRKAA2	protein kinase AMP-activated catalytic subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:9377]	59	-1.22	0.2547	-4.8	1.8E-06	6.8E-06
ENSG0000010327	STAB1	stabilin 1 [Source:HGNC Symbol;Acc:HGNC:18628]	28	-1.77	0.3719	-4.8	1.9E-06	7.3E-06
ENSG00000226332	ENSG00000226332	novel transcript	101	-0.87	0.1836	-4.7	2.0E-06	7.6E-06
ENSG00000274211	SOCS7	suppressor of cytokine signaling 7 [Source:HGNC Symbol;Acc:HGNC:29846]	275	-0.55	0.1163	-4.7	2.1E-06	7.8E-06
ENSG00000269887	ENSG00000269887	novel transcript, sense intronic to PBX1	17	-2.54	0.5368	-4.7	2.1E-06	7.9E-06
ENSG00000185507	IRF7	interferon regulatory factor 7 [Source:HGNC Symbol;Acc:HGNC:6122]	17	-2.65	0.5604	-4.7	2.2E-06	8.0E-06
ENSG00000285103	ENSG00000285103	novel transcript	53	-1.24	0.2612	-4.7	2.2E-06	8.3E-06
ENSG00000109738	GLRB	glycine receptor beta [Source:HGNC Symbol;Acc:HGNC:4329]	132	-0.82	0.1730	-4.7	2.3E-06	8.4E-06

ENSG00000169474	SPRR1A	small proline rich protein 1A [Source:HGNC Symbol;Acc:HGNC:11259]	20	-2.34	0.4959	-4.7	2.3E-06	8.5E-06
ENSG00000229807	XIST	X inactive specific transcript [Source:HGNC Symbol;Acc:HGNC:12810]	14	-2.91	0.6156	-4.7	2.3E-06	8.5E-06
ENSG00000233834	ENSG00000233834	novel transcript	68	-1.13	0.2398	-4.7	2.3E-06	8.6E-06
ENSG00000141337	ARSG	arylsulfatase G [Source:HGNC Symbol;Acc:HGNC:24102]	49	-1.33	0.2817	-4.7	2.3E-06	8.7E-06
ENSG00000223396	RPS10P7	ribosomal protein S10 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:36423]	93	-0.96	0.2027	-4.7	2.4E-06	9.0E-06
ENSG00000166426	CRABP1	cellular retinoic acid binding protein 1 [Source:HGNC Symbol;Acc:HGNC:2338]	13	-5.20	1.1023	-4.7	2.4E-06	9.0E-06
ENSG00000230943	LINC02541	long intergenic non-protein coding RNA 2541 [Source:HGNC Symbol;Acc:HGNC:53574]	29	-1.80	0.3821	-4.7	2.4E-06	9.0E-06
ENSG00000164659	ELAPOR2	endosome-lysosome associated apoptosis and autophagy regulator family member 2 [Source:HGNC Symbol;Acc:HGNC:12810]	104	-0.90	0.1905	-4.7	2.5E-06	9.1E-06
ENSG00000079335	CDC14A	cell division cycle 14A [Source:HGNC Symbol;Acc:HGNC:1718]	306	-0.51	0.1091	-4.7	2.5E-06	9.1E-06
ENSG00000277476	ENSG00000277476	novel transcript	25	-1.91	0.4052	-4.7	2.5E-06	9.1E-06
ENSG00000187848	P2RX2	purinergic receptor P2X 2 [Source:HGNC Symbol;Acc:HGNC:15459]	14	-3.14	0.6683	-4.7	2.5E-06	9.3E-06
ENSG00000261371	PECAM1	platelet and endothelial cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:8823]	43	-1.50	0.3195	-4.7	2.5E-06	9.4E-06
ENSG00000235770	LINC00607	long intergenic non-protein coding RNA 607 [Source:HGNC Symbol;Acc:HGNC:43944]	13	-5.20	1.1056	-4.7	2.6E-06	9.4E-06
ENSG00000244716	ENSG00000244716	ribosomal protein L17 (RPL17) pseudogene	179	-0.65	0.1389	-4.7	2.6E-06	9.7E-06
ENSG00000158560	DYNC111	dynein cytoplasmic 1 intermediate chain 1 [Source:HGNC Symbol;Acc:HGNC:2963]	20	-2.16	0.4618	-4.7	2.8E-06	1.0E-05
ENSG00000213190	MLLT11	MLLT11 transcription factor 7 cofactor [Source:HGNC Symbol;Acc:HGNC:16997]	183	-0.65	0.1380	-4.7	2.8E-06	1.0E-05
ENSG00000198626	RYR2	ryanodine receptor 2 [Source:HGNC Symbol;Acc:HGNC:10484]	12	-4.02	0.8586	-4.7	2.9E-06	1.1E-05
ENSG00000172824	CES4A	carboxylesterase 4A [Source:HGNC Symbol;Acc:HGNC:26741]	182	-0.66	0.1413	-4.7	2.9E-06	1.1E-05
ENSG00000100330	MTMR3	myotubularin related protein 3 [Source:HGNC Symbol;Acc:HGNC:7451]	107	-0.90	0.1932	-4.7	2.9E-06	1.1E-05
ENSG00000286587	ENSG00000286587	novel transcript	11	-5.90	1.2621	-4.7	2.9E-06	1.1E-05
ENSG00000009790	TRAF3IP3	TRAF3 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:30766]	15	-2.76	0.5902	-4.7	2.9E-06	1.1E-05
ENSG00000163909	HEYL	hes related family bHLH transcription factor with YRPW motif like [Source:HGNC Symbol;Acc:HGNC:488]	66	-1.10	0.2356	-4.7	3.0E-06	1.1E-05
ENSG00000116132	PRRX1	paired related homeobox 1 [Source:HGNC Symbol;Acc:HGNC:9142]	27	-1.78	0.3815	-4.7	3.0E-06	1.1E-05
ENSG00000133739	LRRCC1	leucine rich repeat and coiled-coil centrosomal protein 1 [Source:HGNC Symbol;Acc:HGNC:29373]	23	-2.06	0.4414	-4.7	3.0E-06	1.1E-05
ENSG00000185989	RASA3	RAS p21 protein activator 3 [Source:HGNC Symbol;Acc:HGNC:20331]	82	-1.00	0.2137	-4.7	3.2E-06	1.2E-05
ENSG00000185811	IKZF1	IKAROS family zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:13176]	29	-1.72	0.3689	-4.7	3.2E-06	1.2E-05
ENSG00000253796	ENSG00000253796	novel transcript	23	-2.02	0.4346	-4.7	3.2E-06	1.2E-05
ENSG00000183317	EPHA10	EPH receptor A10 [Source:HGNC Symbol;Acc:HGNC:19987]	126	-0.79	0.1702	-4.6	3.3E-06	1.2E-05
ENSG00000229666	MAST4-AS1	MAST4 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:40865]	18	-2.27	0.4894	-4.6	3.4E-06	1.2E-05
ENSG00000140092	FBLN5	fibulin 5 [Source:HGNC Symbol;Acc:HGNC:3602]	21	-2.08	0.4477	-4.6	3.4E-06	1.2E-05
ENSG00000162687	KCNT2	potassium sodium-activated channel subfamily T member 2 [Source:HGNC Symbol;Acc:HGNC:18866]	13	-5.17	1.1135	-4.6	3.4E-06	1.2E-05
ENSG00000145526	CDH18	cadherin 18 [Source:HGNC Symbol;Acc:HGNC:1757]	13	-3.12	0.6735	-4.6	3.5E-06	1.3E-05
ENSG00000228376	GAS2L1P2	growth arrest specific 2 like 1 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:27986]	12	-4.39	0.9480	-4.6	3.7E-06	1.3E-05
ENSG00000274561	ENSG00000274561	novel transcript	17	-2.52	0.5457	-4.6	3.8E-06	1.4E-05
ENSG00000197935	ZNF311	zinc finger protein 311 [Source:HGNC Symbol;Acc:HGNC:13847]	16	-2.57	0.5566	-4.6	3.8E-06	1.4E-05
ENSG00000156475	PPP2R2B	protein phosphatase 2 regulatory subunit Bbeta [Source:HGNC Symbol;Acc:HGNC:9305]	15	-2.56	0.5545	-4.6	3.9E-06	1.4E-05
ENSG00000123329	ARHGAP9	Rho GTPase activating protein 9 [Source:HGNC Symbol;Acc:HGNC:14130]	17	-2.40	0.5201	-4.6	3.9E-06	1.4E-05
ENSG00000254510	ENSG00000254510	novel transcript	20	-2.13	0.4617	-4.6	3.9E-06	1.4E-05
ENSG00000181350	LRRC75A	leucine rich repeat containing 75A [Source:HGNC Symbol;Acc:HGNC:32403]	45	-1.33	0.2893	-4.6	4.0E-06	1.4E-05
ENSG00000232021	LEF1-AS1	LEF1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:40339]	7	-6.10	1.3265	-4.6	4.2E-06	1.5E-05
ENSG00000123700	KCNJ2	potassium inwardly rectifying channel subfamily J member 2 [Source:HGNC Symbol;Acc:HGNC:6263]	12	-3.62	0.7879	-4.6	4.3E-06	1.5E-05
ENSG00000114646	CSPG5	chondroitin sulfate proteoglycan 5 [Source:HGNC Symbol;Acc:HGNC:2467]	130	-0.80	0.1739	-4.6	4.3E-06	1.6E-05

ENSG00000102879	CORO1A	coronin 1A [Source:HGNC Symbol;Acc:HGNC:2252]	176	-0.67	0.1464	-4.6	4.3E-06	1.6E-05
ENSG00000121933	TMIGD3	transmembrane and immunoglobulin domain containing 3 [Source:HGNC Symbol;Acc:HGNC:51375]	20	-2.23	0.4866	-4.6	4.4E-06	1.6E-05
ENSG00000106069	CHN2	chimerin 2 [Source:HGNC Symbol;Acc:HGNC:1944]	11	-3.60	0.7835	-4.6	4.5E-06	1.6E-05
ENSG00000275764	ENSG00000275764	novel transcript	75	-0.99	0.2155	-4.6	4.5E-06	1.6E-05
ENSG00000160179	ABCG1	ATP binding cassette subfamily G member 1 [Source:HGNC Symbol;Acc:HGNC:73]	31	-1.67	0.3645	-4.6	4.5E-06	1.6E-05
ENSG00000286451	ENSG00000286451	novel transcript	18	-2.36	0.5152	-4.6	4.6E-06	1.7E-05
ENSG00000158270	COLEC12	collectin subfamily member 12 [Source:HGNC Symbol;Acc:HGNC:16016]	20	-2.19	0.4769	-4.6	4.6E-06	1.7E-05
ENSG00000136274	NACAD	NAC alpha domain containing [Source:HGNC Symbol;Acc:HGNC:22196]	29	-1.85	0.4043	-4.6	4.7E-06	1.7E-05
ENSG00000253414	LINC01605	long intergenic non-protein coding RNA 1605 [Source:NCBI gene (formerly Entrezgene);Acc:100507420]	7	-6.09	1.3305	-4.6	4.7E-06	1.7E-05
ENSG00000228956	SATB1-AS1	SATB1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:50687]	11	-5.81	1.2703	-4.6	4.7E-06	1.7E-05
ENSG00000233379	ENSG00000233379	novel transcript	14	-2.84	0.6204	-4.6	4.7E-06	1.7E-05
ENSG00000136144	RCBTB1	RCC1 and BTB domain containing protein 1 [Source:HGNC Symbol;Acc:HGNC:18243]	137	-0.74	0.1622	-4.6	4.7E-06	1.7E-05
ENSG00000048540	LMO3	LIM domain only 3 [Source:HGNC Symbol;Acc:HGNC:6643]	12	-5.10	1.1141	-4.6	4.8E-06	1.7E-05
ENSG00000168243	GNG4	G protein subunit gamma 4 [Source:HGNC Symbol;Acc:HGNC:4407]	88	-0.91	0.1984	-4.6	4.8E-06	1.7E-05
ENSG00000133475	GGT2	gamma-glutamyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:4251]	12	-5.11	1.1176	-4.6	4.9E-06	1.8E-05
ENSG00000263946	ENSG00000263946	chromosome 2 open reading frame 27B (C2orf27B) pseudogene	12	-3.64	0.7976	-4.6	5.0E-06	1.8E-05
ENSG00000136859	ANGPTL2	angiopoietin like 2 [Source:HGNC Symbol;Acc:HGNC:490]	18	-2.26	0.4965	-4.6	5.1E-06	1.8E-05
ENSG00000272341	ENSG00000272341	novel transcript	109	-0.82	0.1803	-4.6	5.1E-06	1.8E-05
ENSG00000143995	MEIS1	Meis homeobox 1 [Source:HGNC Symbol;Acc:HGNC:7000]	198	-0.62	0.1370	-4.6	5.1E-06	1.8E-05
ENSG00000135424	ITGA7	integrin subunit alpha 7 [Source:HGNC Symbol;Acc:HGNC:6143]	82	-0.98	0.2141	-4.6	5.3E-06	1.9E-05
ENSG00000149781	FERMT3	fermitin family member 3 [Source:HGNC Symbol;Acc:HGNC:23151]	61	-1.12	0.2455	-4.5	5.4E-06	1.9E-05
ENSG00000070915	SLC12A3	solute carrier family 12 member 3 [Source:HGNC Symbol;Acc:HGNC:10912]	25	-1.82	0.4003	-4.5	5.5E-06	2.0E-05
ENSG00000016402	IL20RA	interleukin 20 receptor subunit alpha [Source:HGNC Symbol;Acc:HGNC:6003]	13	-3.25	0.7144	-4.5	5.5E-06	2.0E-05
ENSG00000196361	ELAVL3	ELAV like RNA binding protein 3 [Source:HGNC Symbol;Acc:HGNC:3314]	12	-3.02	0.6641	-4.5	5.5E-06	2.0E-05
ENSG00000287086	ENSG00000287086	novel transcript, antisense to VHL	152	-0.71	0.1572	-4.5	5.6E-06	2.0E-05
ENSG00000176387	HSD11B2	hydroxysteroid 11-beta dehydrogenase 2 [Source:HGNC Symbol;Acc:HGNC:5209]	57	-1.15	0.2543	-4.5	5.6E-06	2.0E-05
ENSG00000134121	CHL1	cell adhesion molecule L1 like [Source:HGNC Symbol;Acc:HGNC:1939]	19	-2.41	0.5310	-4.5	5.6E-06	2.0E-05
ENSG00000151702	FLI1	Fli-1 proto-oncogene, ETS transcription factor [Source:HGNC Symbol;Acc:HGNC:3749]	18	-2.30	0.5074	-4.5	5.7E-06	2.0E-05
ENSG00000102755	FLT1	fms related receptor tyrosine kinase 1 [Source:HGNC Symbol;Acc:HGNC:3763]	22	-1.98	0.4362	-4.5	5.7E-06	2.0E-05
ENSG00000125962	ARMCX5	armadillo repeat containing X-linked 5 [Source:HGNC Symbol;Acc:HGNC:25772]	228	-0.60	0.1322	-4.5	5.7E-06	2.0E-05
ENSG00000159164	SV2A	synaptic vesicle glycoprotein 2A [Source:HGNC Symbol;Acc:HGNC:20566]	26	-1.80	0.3960	-4.5	5.7E-06	2.0E-05
ENSG00000132840	BHMT2	betaine--homocysteine S-methyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:1048]	6	-6.02	1.3276	-4.5	5.9E-06	2.1E-05
ENSG00000285867	ENSG00000285867	Novel transcript	47	-1.35	0.2969	-4.5	5.9E-06	2.1E-05
ENSG00000095539	SEMA4G	semaphorin 4G [Source:HGNC Symbol;Acc:HGNC:10735]	76	-0.98	0.2159	-4.5	5.9E-06	2.1E-05
ENSG00000244486	SCARF2	scavenger receptor class F member 2 [Source:HGNC Symbol;Acc:HGNC:19869]	60	-1.13	0.2490	-4.5	5.9E-06	2.1E-05
ENSG00000185862	EVI2B	ecotropic viral integration site 2B [Source:HGNC Symbol;Acc:HGNC:3500]	16	-2.50	0.5526	-4.5	5.9E-06	2.1E-05
ENSG00000283839	ENSG00000283839	novel transcript, antisense to ZNF804A	6	-6.01	1.3284	-4.5	6.0E-06	2.1E-05
ENSG00000235501	CNN3-DT	CNN3 divergent transcript [Source:HGNC Symbol;Acc:HGNC:54176]	68	-1.07	0.2373	-4.5	6.0E-06	2.1E-05
ENSG00000091972	CD200	CD200 molecule [Source:HGNC Symbol;Acc:HGNC:7203]	10	-5.74	1.2707	-4.5	6.4E-06	2.3E-05
ENSG00000163221	S100A12	S100 calcium binding protein A12 [Source:HGNC Symbol;Acc:HGNC:10489]	49	-1.28	0.2841	-4.5	6.4E-06	2.3E-05
ENSG00000187116	LILRA5	leukocyte immunoglobulin like receptor A5 [Source:HGNC Symbol;Acc:HGNC:16309]	17	-2.53	0.5606	-4.5	6.6E-06	2.3E-05
ENSG00000197629	MPEG1	macrophage expressed 1 [Source:HGNC Symbol;Acc:HGNC:29619]	12	-3.20	0.7093	-4.5	6.6E-06	2.3E-05

ENSG00000143851	PTPN7	protein tyrosine phosphatase non-receptor type 7 [Source:HGNC Symbol;Acc:HGNC:9659]	21	-2.01	0.4466	-4.5	6.6E-06	2.3E-05
ENSG00000248092	NNT-AS1	NNT antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49005]	23	-1.96	0.4353	-4.5	6.6E-06	2.3E-05
NA	9	NA	11	-3.88	0.8619	-4.5	6.8E-06	2.4E-05
ENSG00000232444	ENSG000002	novel transcript	6	-6.00	1.3340	-4.5	6.8E-06	2.4E-05
ENSG00000196460	RFX8	regulatory factor X8 [Source:HGNC Symbol;Acc:HGNC:37253]	6	-5.99	1.3307	-4.5	6.8E-06	2.4E-05
ENSG00000064199	SPA17	sperm autoantigenic protein 17 [Source:HGNC Symbol;Acc:HGNC:11210]	42	-1.35	0.2994	-4.5	6.8E-06	2.4E-05
ENSG00000283071	LBHD2	LBH domain containing 2 [Source:HGNC Symbol;Acc:HGNC:52384]	14	-2.83	0.6298	-4.5	6.9E-06	2.4E-05
ENSG00000213390	ARHGAP19	Rho GTPase activating protein 19 [Source:HGNC Symbol;Acc:HGNC:23724]	337	-0.51	0.1141	-4.5	7.1E-06	2.5E-05
ENSG00000137868	STRA6	signaling receptor and transporter of retinol STRA6 [Source:HGNC Symbol;Acc:HGNC:30650]	11	-3.33	0.7411	-4.5	7.1E-06	2.5E-05
ENSG00000154864	PIEZO2	piezo type mechanosensitive ion channel component 2 [Source:HGNC Symbol;Acc:HGNC:26270]	10	-5.72	1.2731	-4.5	7.1E-06	2.5E-05
ENSG00000136014	USP44	ubiquitin specific peptidase 44 [Source:HGNC Symbol;Acc:HGNC:20064]	25	-1.88	0.4187	-4.5	7.3E-06	2.6E-05
ENSG00000176040	TMPRSS7	transmembrane serine protease 7 [Source:HGNC Symbol;Acc:HGNC:30846]	13	-2.92	0.6507	-4.5	7.4E-06	2.6E-05
ENSG00000072952	IRAG1	inositol 1,4,5-triphosphate receptor associated 1 [Source:HGNC Symbol;Acc:HGNC:7237]	20	-2.09	0.4671	-4.5	7.4E-06	2.6E-05
ENSG00000039600	SOX30	SRY-box transcription factor 30 [Source:HGNC Symbol;Acc:HGNC:30635]	11	-3.92	0.8754	-4.5	7.7E-06	2.7E-05
ENSG00000145358	DDIT4L	DNA damage inducible transcript 4 like [Source:HGNC Symbol;Acc:HGNC:30555]	39	-1.41	0.3153	-4.5	7.8E-06	2.7E-05
ENSG00000255282	WTAPP1	Wilms tumor 1 associated protein pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:44115]	11	-4.30	0.9627	-4.5	7.8E-06	2.7E-05
ENSG00000163082	SGPP2	sphingosine-1-phosphate phosphatase 2 [Source:HGNC Symbol;Acc:HGNC:19953]	51	-1.17	0.2616	-4.5	8.0E-06	2.8E-05
ENSG00000105697	HAMP	hepcidin antimicrobial peptide [Source:HGNC Symbol;Acc:HGNC:15598]	11	-3.92	0.8779	-4.5	8.0E-06	2.8E-05
ENSG00000007372	PAX6	paired box 6 [Source:HGNC Symbol;Acc:HGNC:8620]	212	-0.57	0.1278	-4.5	8.2E-06	2.9E-05
ENSG00000171724	VAT1L	vesicle amine transport 1 like [Source:HGNC Symbol;Acc:HGNC:29315]	13	-2.81	0.6307	-4.5	8.3E-06	2.9E-05
ENSG00000114626	ABTB1	ankyrin repeat and BTB domain containing 1 [Source:HGNC Symbol;Acc:HGNC:18275]	175	-0.65	0.1451	-4.5	8.4E-06	2.9E-05
ENSG00000171860	C3AR1	complement C3a receptor 1 [Source:HGNC Symbol;Acc:HGNC:1319]	21	-2.06	0.4617	-4.5	8.4E-06	2.9E-05
ENSG00000082512	TRAF5	TNF receptor associated factor 5 [Source:HGNC Symbol;Acc:HGNC:12035]	90	-0.89	0.1999	-4.4	8.7E-06	3.0E-05
ENSG00000152785	BMP3	bone morphogenetic protein 3 [Source:HGNC Symbol;Acc:HGNC:1070]	6	-6.00	1.3486	-4.4	8.8E-06	3.1E-05
ENSG00000134569	LRP4	LDL receptor related protein 4 [Source:HGNC Symbol;Acc:HGNC:6696]	160	-0.66	0.1476	-4.4	8.8E-06	3.1E-05
ENSG00000134901	POGLUT2	protein O-glucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:19350]	163	-0.65	0.1467	-4.4	8.8E-06	3.1E-05
ENSG00000168918	INPP5D	inositol polyphosphate-5-phosphatase D [Source:HGNC Symbol;Acc:HGNC:6079]	27	-1.78	0.4014	-4.4	8.9E-06	3.1E-05
ENSG00000135439	AGAP2	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:HGNC:16921]	75	-2.01	0.4532	-4.4	9.2E-06	3.2E-05
ENSG00000107518	ATRNL1	attractin like 1 [Source:HGNC Symbol;Acc:HGNC:29063]	109	-0.82	0.1841	-4.4	9.2E-06	3.2E-05
ENSG00000157765	SLC34A2	solute carrier family 34 member 2 [Source:HGNC Symbol;Acc:HGNC:11020]	11	-4.99	1.1263	-4.4	9.4E-06	3.3E-05
ENSG00000121454	LHX4	LIM homeobox 4 [Source:HGNC Symbol;Acc:HGNC:21734]	48	-1.21	0.2728	-4.4	9.4E-06	3.3E-05
ENSG00000148082	SHC3	SHC adaptor protein 3 [Source:HGNC Symbol;Acc:HGNC:18181]	35	-1.41	0.3195	-4.4	9.5E-06	3.3E-05
ENSG00000080007	DDX43	DEAD-box helicase 43 [Source:HGNC Symbol;Acc:HGNC:18677]	185	-0.66	0.1500	-4.4	9.7E-06	3.4E-05
ENSG00000275793	RIMBP3	RIMS binding protein 3 [Source:HGNC Symbol;Acc:HGNC:29344]	32	-1.60	0.3618	-4.4	9.8E-06	3.4E-05
ENSG00000188315	C3orf62	chromosome 3 open reading frame 62 [Source:HGNC Symbol;Acc:HGNC:24771]	161	-0.65	0.1481	-4.4	9.8E-06	3.4E-05
ENSG00000144712	CAND2	cullin associated and neddylation dissociated 2 (putative) [Source:HGNC Symbol;Acc:HGNC:30689]	27	-1.78	0.4023	-4.4	9.9E-06	3.4E-05
ENSG00000146409	SLC18B1	solute carrier family 18 member B1 [Source:HGNC Symbol;Acc:HGNC:21573]	103	-0.83	0.1879	-4.4	9.9E-06	3.4E-05
ENSG00000179859	RNF227	ring finger protein 227 [Source:HGNC Symbol;Acc:HGNC:27571]	95	-0.86	0.1939	-4.4	1.0E-05	3.5E-05
ENSG00000100271	TLL1	tubulin tyrosine ligase like 1 [Source:HGNC Symbol;Acc:HGNC:1312]	87	-0.94	0.2123	-4.4	1.0E-05	3.6E-05
ENSG00000188452	CERKL	ceramide kinase like [Source:HGNC Symbol;Acc:HGNC:21699]	16	-2.30	0.5225	-4.4	1.0E-05	3.6E-05
ENSG00000164048	ZNF589	zinc finger protein 589 [Source:HGNC Symbol;Acc:HGNC:16747]	256	-0.52	0.1181	-4.4	1.0E-05	3.6E-05
ENSG00000019549	SNAI2	snail family transcriptional repressor 2 [Source:HGNC Symbol;Acc:HGNC:11094]	82	-0.95	0.2154	-4.4	1.0E-05	3.6E-05

ENSG00000155629	PIK3AP1	phosphoinositide-3-kinase adaptor protein 1 [Source:HGNC Symbol;Acc:HGNC:30034]	59	-1.09	0.2466	-4.4	1.0E-05	3.6E-05
ENSG00000185187	SIGIRR	single Ig and TIR domain containing [Source:HGNC Symbol;Acc:HGNC:30575]	109	-0.80	0.1826	-4.4	1.1E-05	3.7E-05
ENSG00000151715	TMEM45B	transmembrane protein 45B [Source:HGNC Symbol;Acc:HGNC:25194]	40	-1.38	0.3130	-4.4	1.1E-05	3.7E-05
ENSG00000234262	ENSG000002	small proline-rich protein 3 (SPRR3) pseudogene	11	-4.92	1.1170	-4.4	1.1E-05	3.7E-05
ENSG00000100979	PLTP	phospholipid transfer protein [Source:HGNC Symbol;Acc:HGNC:9093]	44	-1.39	0.3165	-4.4	1.1E-05	3.8E-05
ENSG00000170160	CCDC144A	coiled-coil domain containing 144A [Source:HGNC Symbol;Acc:HGNC:29072]	13	-2.77	0.6307	-4.4	1.1E-05	3.8E-05
ENSG0000010295	IFFO1	intermediate filament family orphan 1 [Source:HGNC Symbol;Acc:HGNC:24970]	26	-1.67	0.3803	-4.4	1.2E-05	4.0E-05
ENSG00000143067	ZNF697	zinc finger protein 697 [Source:HGNC Symbol;Acc:HGNC:32034]	198	-0.61	0.1383	-4.4	1.2E-05	4.0E-05
ENSG00000152782	PANK1	pantothenate kinase 1 [Source:HGNC Symbol;Acc:HGNC:8598]	222	-0.56	0.1286	-4.4	1.2E-05	4.2E-05
ENSG00000286124	ENSG000002	novel transcript	6	-5.89	1.3454	-4.4	1.2E-05	4.2E-05
ENSG00000225255	PSLNR	prostate enriched lncRNA [Source:HGNC Symbol;Acc:HGNC:54405]	52	-1.15	0.2636	-4.4	1.2E-05	4.2E-05
ENSG00000206140	TMEM191C	transmembrane protein 191C [Source:HGNC Symbol;Acc:HGNC:33601]	46	-1.32	0.3028	-4.4	1.2E-05	4.2E-05
ENSG00000116771	AGMAT	agmatinase [Source:HGNC Symbol;Acc:HGNC:18407]	109	-0.77	0.1772	-4.4	1.2E-05	4.2E-05
ENSG0000013297	CLDN11	claudin 11 [Source:HGNC Symbol;Acc:HGNC:8514]	22	-1.86	0.4264	-4.4	1.2E-05	4.3E-05
ENSG00000159784	FAM131B	family with sequence similarity 131 member B [Source:HGNC Symbol;Acc:HGNC:22202]	17	-2.27	0.5196	-4.4	1.2E-05	4.3E-05
ENSG00000274712	ENSG000002	bromodomain PHD finger transcription factor (BPTF) pseudogene	36	-1.39	0.3187	-4.4	1.3E-05	4.3E-05
ENSG00000134769	DTNA	dystrobrevin alpha [Source:HGNC Symbol;Acc:HGNC:3057]	32	-1.55	0.3541	-4.4	1.3E-05	4.4E-05
ENSG00000275234	ENSG000002	novel transcript, antisense to DENND1C	24	-1.79	0.4111	-4.4	1.3E-05	4.4E-05
ENSG00000261072	ENSG000002	hydroxyacyl-CoA dehydrogenase (HADH) pseudogene	11	-3.09	0.7082	-4.4	1.3E-05	4.5E-05
ENSG00000101850	GPR143	G protein-coupled receptor 143 [Source:HGNC Symbol;Acc:HGNC:20145]	13	-2.74	0.6282	-4.4	1.3E-05	4.5E-05
ENSG00000149557	FEZ1	fasciculation and elongation protein zeta 1 [Source:HGNC Symbol;Acc:HGNC:3659]	34	-1.49	0.3409	-4.4	1.3E-05	4.5E-05
ENSG00000198879	SFMBT2	Scm like with four mbt domains 2 [Source:HGNC Symbol;Acc:HGNC:20256]	24	-1.76	0.4047	-4.4	1.3E-05	4.6E-05
ENSG00000163093	BBS5	Bardet-Biedl syndrome 5 [Source:HGNC Symbol;Acc:HGNC:970]	122	-0.79	0.1826	-4.4	1.4E-05	4.6E-05
ENSG00000185513	L3MBTL1	L3MBTL histone methyl-lysine binding protein 1 [Source:HGNC Symbol;Acc:HGNC:15905]	114	-0.76	0.1741	-4.3	1.4E-05	4.7E-05
ENSG00000186710	CFAP73	cilia and flagella associated protein 73 [Source:HGNC Symbol;Acc:HGNC:37100]	21	-1.93	0.4432	-4.3	1.4E-05	4.7E-05
ENSG00000182511	FES	FES proto-oncogene, tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:3657]	25	-1.70	0.3903	-4.3	1.4E-05	4.7E-05
ENSG00000287430	ENSG000002	novel transcript	10	-4.24	0.9752	-4.3	1.4E-05	4.8E-05
ENSG00000136895	GARNL3	GTPase activating Rap/RanGAP domain like 3 [Source:HGNC Symbol;Acc:HGNC:25425]	19	-2.05	0.4726	-4.3	1.4E-05	4.8E-05
ENSG00000225489	ENSG000002	novel transcript	56	-1.07	0.2467	-4.3	1.4E-05	4.8E-05
ENSG00000273033	LINC02035	long intergenic non-protein coding RNA 2035 [Source:HGNC Symbol;Acc:HGNC:52875]	30	-1.60	0.3688	-4.3	1.4E-05	4.9E-05
ENSG00000149599	DUSP15	dual specificity phosphatase 15 [Source:HGNC Symbol;Acc:HGNC:16236]	40	-1.32	0.3036	-4.3	1.4E-05	4.9E-05
ENSG00000163577	EIF5A2	eukaryotic translation initiation factor 5A2 [Source:HGNC Symbol;Acc:HGNC:3301]	141	-0.68	0.1568	-4.3	1.5E-05	5.0E-05
ENSG00000128596	CCDC136	coiled-coil domain containing 136 [Source:HGNC Symbol;Acc:HGNC:22225]	51	-1.17	0.2691	-4.3	1.5E-05	5.0E-05
ENSG00000157303	SUSD3	sushi domain containing 3 [Source:HGNC Symbol;Acc:HGNC:28391]	11	-3.29	0.7610	-4.3	1.5E-05	5.1E-05
ENSG00000154310	TNFK	TRAF2 and NCK interacting kinase [Source:HGNC Symbol;Acc:HGNC:30765]	21	-2.04	0.4725	-4.3	1.5E-05	5.1E-05
ENSG00000006059	KRT33A	keratin 33A [Source:HGNC Symbol;Acc:HGNC:6450]	6	-5.87	1.3566	-4.3	1.5E-05	5.1E-05
ENSG00000159189	C1QC	complement C1q C chain [Source:HGNC Symbol;Acc:HGNC:1245]	140	-1.96	0.4520	-4.3	1.5E-05	5.2E-05
ENSG00000114200	BCHE	butyrylcholinesterase [Source:HGNC Symbol;Acc:HGNC:983]	10	-3.46	0.8005	-4.3	1.5E-05	5.2E-05
ENSG00000234520	HRAT17	heart tissue-associated transcript 17 [Source:NCBI gene (formerly Entrezgene);Acc:101928036]	19	-2.22	0.5144	-4.3	1.5E-05	5.2E-05
ENSG00000106772	PRUNE2	prune homolog 2 with BCH domain [Source:HGNC Symbol;Acc:HGNC:25209]	54	-1.15	0.2648	-4.3	1.5E-05	5.2E-05
ENSG00000079337	RAPGEF3	Rap guanine nucleotide exchange factor 3 [Source:HGNC Symbol;Acc:HGNC:16629]	125	-0.77	0.1781	-4.3	1.5E-05	5.2E-05
ENSG00000267879	ENSG000002	novel transcript, antisense to KLK6, KLK7, KLK8 and KLK9	15	-2.45	0.5677	-4.3	1.5E-05	5.2E-05

ENSG00000133574	GIMAP4	GTPase, IMAP family member 4 [Source:HGNC Symbol;Acc:HGNC:21872]	11	-3.28	0.7585	-4.3	1.5E-05	5.2E-05
ENSG00000278023	RDM1	RAD52 motif containing 1 [Source:HGNC Symbol;Acc:HGNC:19950]	62	-1.04	0.2411	-4.3	1.6E-05	5.3E-05
ENSG00000255571	MIR9-3HG	MIR9-3 host gene [Source:HGNC Symbol;Acc:HGNC:27388]	107	-0.84	0.1938	-4.3	1.6E-05	5.4E-05
ENSG00000171502	COL24A1	collagen type XXIV alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:20821]	11	-3.24	0.7506	-4.3	1.6E-05	5.4E-05
ENSG00000163273	NPPC	natriuretic peptide C [Source:HGNC Symbol;Acc:HGNC:7941]	46	-1.24	0.2870	-4.3	1.6E-05	5.5E-05
ENSG00000166183	ASPG	asparaginase [Source:HGNC Symbol;Acc:HGNC:20123]	45	-1.22	0.2826	-4.3	1.6E-05	5.5E-05
ENSG00000277147	LINC00869	long intergenic non-protein coding RNA 869 [Source:HGNC Symbol;Acc:HGNC:29050]	34	-1.41	0.3276	-4.3	1.7E-05	5.6E-05
ENSG00000067048	DDX3Y	DEAD-box helicase 3 Y-linked [Source:HGNC Symbol;Acc:HGNC:2699]	19	-2.04	0.4751	-4.3	1.7E-05	5.7E-05
ENSG00000262117	BCAR4	breast cancer anti-estrogen resistance 4 [Source:HGNC Symbol;Acc:HGNC:22170]	14	-2.45	0.5703	-4.3	1.7E-05	5.8E-05
ENSG00000166448	TMEM130	transmembrane protein 130 [Source:HGNC Symbol;Acc:HGNC:25429]	27	-1.64	0.3814	-4.3	1.7E-05	5.9E-05
ENSG00000204472	AIF1	allograft inflammatory factor 1 [Source:HGNC Symbol;Acc:HGNC:352]	22	-1.82	0.4242	-4.3	1.7E-05	5.9E-05
ENSG00000138080	EMILIN1	elastin microfibril interfacier 1 [Source:HGNC Symbol;Acc:HGNC:19880]	62	-1.02	0.2370	-4.3	1.8E-05	6.0E-05
ENSG00000185436	IFNLR1	interferon lambda receptor 1 [Source:HGNC Symbol;Acc:HGNC:18584]	201	-0.59	0.1368	-4.3	1.8E-05	6.0E-05
ENSG00000148516	ZEB1	zinc finger E-box binding homeobox 1 [Source:HGNC Symbol;Acc:HGNC:11642]	33	-1.48	0.3451	-4.3	1.8E-05	6.1E-05
ENSG00000110077	MS4A6A	membrane spanning 4-domains A6A [Source:HGNC Symbol;Acc:HGNC:13375]	11	-3.45	0.8068	-4.3	1.8E-05	6.2E-05
ENSG00000120215	MLANA	melan-A [Source:HGNC Symbol;Acc:HGNC:7124]	49	-1.28	0.2996	-4.3	1.9E-05	6.4E-05
ENSG00000171368	TPPP	tubulin polymerization promoting protein [Source:HGNC Symbol;Acc:HGNC:24164]	109	-0.78	0.1828	-4.3	1.9E-05	6.4E-05
ENSG00000077498	TYR	tyrosinase [Source:HGNC Symbol;Acc:HGNC:12442]	28	-1.75	0.4100	-4.3	1.9E-05	6.5E-05
ENSG00000164047	CAMP	cathelicidin antimicrobial peptide [Source:HGNC Symbol;Acc:HGNC:1472]	24	-1.70	0.3978	-4.3	1.9E-05	6.5E-05
ENSG00000267279	ENSG00000267279	novel transcript	78	-0.96	0.2241	-4.3	1.9E-05	6.6E-05
ENSG00000124920	MYRF	myelin regulatory factor [Source:HGNC Symbol;Acc:HGNC:1181]	34	-1.41	0.3294	-4.3	2.0E-05	6.6E-05
ENSG00000166340	TPP1	tripeptidyl peptidase 1 [Source:HGNC Symbol;Acc:HGNC:2073]	213	-0.55	0.1281	-4.3	2.0E-05	6.8E-05
ENSG00000173611	SCAI	suppressor of cancer cell invasion [Source:HGNC Symbol;Acc:HGNC:26709]	141	-0.67	0.1576	-4.3	2.0E-05	6.8E-05
ENSG00000095303	PTGS1	prostaglandin-endoperoxide synthase 1 [Source:HGNC Symbol;Acc:HGNC:9604]	24	-1.79	0.4212	-4.3	2.1E-05	6.9E-05
ENSG00000108700	CCL8	C-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:10635]	17	-2.62	0.6146	-4.3	2.1E-05	6.9E-05
ENSG00000173578	XCR1	X-C motif chemokine receptor 1 [Source:HGNC Symbol;Acc:HGNC:1625]	5	-5.83	1.3724	-4.2	2.1E-05	7.2E-05
ENSG00000146757	ZNF92	zinc finger protein 92 [Source:HGNC Symbol;Acc:HGNC:13168]	157	-0.65	0.1523	-4.2	2.1E-05	7.2E-05
ENSG00000058404	CAMK2B	calcium/calmodulin dependent protein kinase II beta [Source:HGNC Symbol;Acc:HGNC:1461]	31	-1.55	0.3647	-4.2	2.2E-05	7.2E-05
ENSG00000236333	TRHDE-AS1	TRHDE antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:27471]	5	-5.75	1.3571	-4.2	2.3E-05	7.6E-05
ENSG00000183486	MX2	MX dynamin like GTPase 2 [Source:HGNC Symbol;Acc:HGNC:7533]	59	-1.20	0.2826	-4.2	2.3E-05	7.6E-05
ENSG00000225950	NTF4	neurotrophin 4 [Source:HGNC Symbol;Acc:HGNC:8024]	149	-0.68	0.1601	-4.2	2.3E-05	7.6E-05
ENSG00000162630	B3GALT2	beta-1,3-galactosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:917]	10	-3.73	0.8808	-4.2	2.3E-05	7.6E-05
ENSG00000259663	ENSG00000259663	novel transcript, antisense to ISL1	10	-3.71	0.8778	-4.2	2.3E-05	7.8E-05
ENSG00000287354	ENSG00000287354	novel transcript, antisense to HHAT	10	-4.83	1.1416	-4.2	2.3E-05	7.8E-05
ENSG00000163219	ARHGAP25	Rho GTPase activating protein 25 [Source:HGNC Symbol;Acc:HGNC:28951]	19	-1.95	0.4607	-4.2	2.4E-05	7.8E-05
ENSG00000236901	MIR600HG	MIR600 host gene [Source:HGNC Symbol;Acc:HGNC:23642]	76	-0.94	0.2216	-4.2	2.4E-05	7.9E-05
ENSG00000269313	MAGIX	MAGI family member, X-linked [Source:HGNC Symbol;Acc:HGNC:30006]	141	-0.67	0.1578	-4.2	2.4E-05	7.9E-05
ENSG00000103449	SALL1	spalt like transcription factor 1 [Source:HGNC Symbol;Acc:HGNC:10524]	18	-2.06	0.4884	-4.2	2.4E-05	8.0E-05
ENSG00000143951	WDPCP	WD repeat containing planar cell polarity effector [Source:HGNC Symbol;Acc:HGNC:28027]	205	-0.58	0.1369	-4.2	2.5E-05	8.2E-05
ENSG00000141642	ELAC1	elaC ribonuclease Z 1 [Source:HGNC Symbol;Acc:HGNC:14197]	66	-0.99	0.2344	-4.2	2.5E-05	8.2E-05
ENSG00000247317	LY6E-DT	LY6E divergent transcript [Source:HGNC Symbol;Acc:HGNC:53728]	10	-4.76	1.1281	-4.2	2.5E-05	8.2E-05
ENSG00000205890	ENSG00000205890	novel transcript, antisense to CCDC64B	29	-1.53	0.3619	-4.2	2.5E-05	8.3E-05

ENSG00000287364	ENSG000002	novel transcript		5	-5.74	1.3628	-4.2	2.5E-05	8.3E-05
ENSG00000280916	FOXCUT	FOXC1 upstream transcript [Source:HGNC Symbol;Acc:HGNC:50650]		10	-3.22	0.7636	-4.2	2.5E-05	8.4E-05
ENSG00000101204	CHRNA4	cholinergic receptor nicotinic alpha 4 subunit [Source:HGNC Symbol;Acc:HGNC:1958]		19	-1.98	0.4694	-4.2	2.5E-05	8.4E-05
ENSG00000227674	LINC00355	long intergenic non-protein coding RNA 355 [Source:HGNC Symbol;Acc:HGNC:27061]		23	-1.79	0.4246	-4.2	2.5E-05	8.4E-05
ENSG00000160791	CCR5	C-C motif chemokine receptor 5 [Source:HGNC Symbol;Acc:HGNC:1606]		14	-2.50	0.5938	-4.2	2.5E-05	8.4E-05
ENSG00000182919	C11orf54	chromosome 11 open reading frame 54 [Source:HGNC Symbol;Acc:HGNC:30204]		98	-0.86	0.2051	-4.2	2.6E-05	8.5E-05
ENSG00000184669	OR7E14P	olfactory receptor family 7 subfamily E member 14 pseudogene [Source:HGNC Symbol;Acc:HGNC:8385]		5	-5.73	1.3623	-4.2	2.6E-05	8.6E-05
ENSG00000225177	ENSG000002	novel transcript		84	-0.85	0.2014	-4.2	2.6E-05	8.6E-05
ENSG00000079931	MOXD1	monooxygenase DBH like 1 [Source:HGNC Symbol;Acc:HGNC:21063]		14	-2.54	0.6041	-4.2	2.6E-05	8.7E-05
ENSG00000286596	ENSG000002	novel transcript, antisense to PCDH7		16	-2.19	0.5198	-4.2	2.6E-05	8.7E-05
ENSG00000188211	NCR3LG1	natural killer cell cytotoxicity receptor 3 ligand 1 [Source:HGNC Symbol;Acc:HGNC:42400]		169	-0.66	0.1576	-4.2	2.7E-05	8.8E-05
ENSG00000123689	G0S2	G0/G1 switch 2 [Source:HGNC Symbol;Acc:HGNC:30229]		53	-1.10	0.2607	-4.2	2.7E-05	8.8E-05
ENSG00000267575	ENSG000002	novel transcript		238	-0.51	0.1217	-4.2	2.7E-05	9.0E-05
ENSG00000166105	GLB1L3	galactosidase beta 1 like 3 [Source:HGNC Symbol;Acc:HGNC:25147]		238	-0.52	0.1244	-4.2	2.8E-05	9.2E-05
ENSG00000171885	AQP4	aquaporin 4 [Source:HGNC Symbol;Acc:HGNC:637]		12	-2.74	0.6545	-4.2	2.8E-05	9.3E-05
ENSG00000235169	SMIM1	small integral membrane protein 1 (Vel blood group) [Source:HGNC Symbol;Acc:HGNC:44204]		27	-1.62	0.3887	-4.2	2.9E-05	9.7E-05
ENSG00000204335	SP5	Sp5 transcription factor [Source:HGNC Symbol;Acc:HGNC:14529]		41	-2.42	0.5806	-4.2	3.1E-05	1.0E-04
ENSG00000148655	LRMDA	leucine rich melanocyte differentiation associated [Source:HGNC Symbol;Acc:HGNC:23405]		12	-2.74	0.6577	-4.2	3.2E-05	1.0E-04
ENSG00000170345	FOS	Fos proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:3796]		146	-0.63	0.1522	-4.2	3.2E-05	1.0E-04
ENSG00000267472	ARHGAP27P	Rho GTPase activating protein 27 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:53771]		5	-5.68	1.3644	-4.2	3.2E-05	1.1E-04
ENSG00000150201	FXVD4	FXVD domain containing ion transport regulator 4 [Source:HGNC Symbol;Acc:HGNC:4028]		8	-5.42	1.3036	-4.2	3.2E-05	1.1E-04
NA	26	NA		21	-1.81	0.4366	-4.2	3.3E-05	1.1E-04
ENSG00000183891	TTC32	tetratricopeptide repeat domain 32 [Source:HGNC Symbol;Acc:HGNC:32954]		176	-0.58	0.1388	-4.2	3.3E-05	1.1E-04
ENSG00000109339	MAPK10	mitogen-activated protein kinase 10 [Source:HGNC Symbol;Acc:HGNC:6872]		27	-1.63	0.3937	-4.1	3.3E-05	1.1E-04
ENSG00000187391	MAGI2	membrane associated guanylate kinase, WW and PDZ domain containing 2 [Source:HGNC Symbol;Acc:HGNC:15460]		37	-1.36	0.3268	-4.1	3.3E-05	1.1E-04
ENSG00000164066	INTU	inturned planar cell polarity protein [Source:HGNC Symbol;Acc:HGNC:29239]		208	-0.55	0.1330	-4.1	3.4E-05	1.1E-04
ENSG00000151778	SERP2	stress associated endoplasmic reticulum protein family member 2 [Source:HGNC Symbol;Acc:HGNC:20655]		42	-1.20	0.2893	-4.1	3.4E-05	1.1E-04
ENSG00000131042	LILRB2	leukocyte immunoglobulin like receptor B2 [Source:HGNC Symbol;Acc:HGNC:6606]		13	-2.69	0.6492	-4.1	3.5E-05	1.1E-04
ENSG00000178162	FAR2P2	fatty acyl-CoA reductase 2 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:49279]		31	-1.43	0.3453	-4.1	3.5E-05	1.1E-04
ENSG00000127863	TNFRSF19	TNF receptor superfamily member 19 [Source:HGNC Symbol;Acc:HGNC:11915]		14	-2.29	0.5540	-4.1	3.5E-05	1.1E-04
ENSG00000157445	CACNA2D3	calcium voltage-gated channel auxiliary subunit alpha2delta 3 [Source:HGNC Symbol;Acc:HGNC:15460]		10	-3.63	0.8774	-4.1	3.5E-05	1.1E-04
ENSG00000267272	LINC01140	long intergenic non-protein coding RNA 1140 [Source:HGNC Symbol;Acc:HGNC:27922]		12	-2.87	0.6941	-4.1	3.5E-05	1.2E-04
ENSG00000143507	DUSP10	dual specificity phosphatase 10 [Source:HGNC Symbol;Acc:HGNC:3065]		202	-0.54	0.1319	-4.1	3.6E-05	1.2E-04
ENSG00000140678	ITGAX	integrin subunit alpha X [Source:HGNC Symbol;Acc:HGNC:6152]		21	-1.80	0.4349	-4.1	3.6E-05	1.2E-04
ENSG00000173372	C1QA	complement C1q A chain [Source:HGNC Symbol;Acc:HGNC:1241]		52	-2.16	0.5241	-4.1	3.7E-05	1.2E-04
ENSG00000162998	FRZB	frizzled related protein [Source:HGNC Symbol;Acc:HGNC:3959]		10	-3.46	0.8397	-4.1	3.8E-05	1.2E-04
ENSG00000128573	FOXP2	forkhead box P2 [Source:HGNC Symbol;Acc:HGNC:13875]		8	-5.34	1.2996	-4.1	4.0E-05	1.3E-04
ENSG00000141837	CACNA1A	calcium voltage-gated channel subunit alpha1 A [Source:HGNC Symbol;Acc:HGNC:1388]		20	-1.88	0.4568	-4.1	4.0E-05	1.3E-04
ENSG00000116833	NR5A2	nuclear receptor subfamily 5 group A member 2 [Source:HGNC Symbol;Acc:HGNC:7984]		116	-0.71	0.1741	-4.1	4.1E-05	1.3E-04
ENSG00000173846	PLK3	polo like kinase 3 [Source:HGNC Symbol;Acc:HGNC:2154]		68	-0.95	0.2310	-4.1	4.1E-05	1.3E-04
ENSG00000123191	ATP7B	ATPase copper transporting beta [Source:HGNC Symbol;Acc:HGNC:870]		121	-0.69	0.1677	-4.1	4.1E-05	1.3E-04
ENSG00000144730	IL17RD	interleukin 17 receptor D [Source:HGNC Symbol;Acc:HGNC:17616]		105	-0.75	0.1832	-4.1	4.1E-05	1.3E-04

ENSG00000283709	FAM238C	family with sequence similarity 238 member C [Source:HGNC Symbol;Acc:HGNC:24672]	9	-4.69	1.1440	-4.1	4.2E-05	1.4E-04
ENSG00000234742	ENSG000002	ribosomal protein L17 (RPL17) pseudogene	191	-0.60	0.1459	-4.1	4.2E-05	1.4E-04
ENSG00000168350	DEGS2	delta 4-desaturase, sphingolipid 2 [Source:HGNC Symbol;Acc:HGNC:20113]	25	-1.60	0.3916	-4.1	4.2E-05	1.4E-04
ENSG00000225828	FAM229A	family with sequence similarity 229 member A [Source:HGNC Symbol;Acc:HGNC:44652]	82	-0.86	0.2100	-4.1	4.2E-05	1.4E-04
ENSG00000172197	MBOAT1	membrane bound O-acyltransferase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:21579]	63	-0.95	0.2333	-4.1	4.3E-05	1.4E-04
ENSG00000170423	KRT78	keratin 78 [Source:HGNC Symbol;Acc:HGNC:28926]	5	-5.62	1.3741	-4.1	4.3E-05	1.4E-04
ENSG00000170290	SLN	sarcolipin [Source:HGNC Symbol;Acc:HGNC:11089]	15	-2.32	0.5676	-4.1	4.3E-05	1.4E-04
ENSG00000168928	CTRB2	chymotrypsinogen B2 [Source:HGNC Symbol;Acc:HGNC:2522]	5	-5.65	1.3821	-4.1	4.3E-05	1.4E-04
ENSG00000164049	FBXW12	F-box and WD repeat domain containing 12 [Source:HGNC Symbol;Acc:HGNC:20729]	10	-3.35	0.8186	-4.1	4.4E-05	1.4E-04
ENSG00000229021	ENSG000002	novel transcript	30	-1.44	0.3536	-4.1	4.4E-05	1.4E-04
ENSG00000186369	LINC00643	long intergenic non-protein coding RNA 643 [Source:HGNC Symbol;Acc:HGNC:44296]	21	-1.81	0.4440	-4.1	4.4E-05	1.4E-04
ENSG00000171094	ALK	ALK receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:427]	15	-2.21	0.5415	-4.1	4.5E-05	1.5E-04
ENSG00000164093	PITX2	paired like homeodomain 2 [Source:HGNC Symbol;Acc:HGNC:9005]	27	-1.50	0.3674	-4.1	4.5E-05	1.5E-04
ENSG00000245526	LINC00461	long intergenic non-protein coding RNA 461 [Source:HGNC Symbol;Acc:HGNC:42810]	29	-1.45	0.3556	-4.1	4.6E-05	1.5E-04
ENSG00000259994	ENSG000002	novel transcript, overlapping to MTPAP	17	-2.13	0.5223	-4.1	4.6E-05	1.5E-04
ENSG00000182040	USH1G	USH1 protein network component sans [Source:HGNC Symbol;Acc:HGNC:16356]	45	-1.19	0.2927	-4.1	4.6E-05	1.5E-04
ENSG00000285818	ENSG000002	novel nuclear pore associated protein 1 (NPAP1) pseudogene	5	-5.61	1.3771	-4.1	4.6E-05	1.5E-04
ENSG00000236924	ENSG000002	novel transcript	9	-4.64	1.1418	-4.1	4.8E-05	1.5E-04
ENSG00000250874	ENSG000002	novel transcript	5	-5.60	1.3758	-4.1	4.8E-05	1.5E-04
ENSG00000197405	C5AR1	complement C5a receptor 1 [Source:HGNC Symbol;Acc:HGNC:1338]	43	-1.18	0.2912	-4.1	4.8E-05	1.6E-04
ENSG00000216937	CCDC7	coiled-coil domain containing 7 [Source:HGNC Symbol;Acc:HGNC:26533]	32	-1.41	0.3479	-4.1	4.8E-05	1.6E-04
ENSG00000162881	OXER1	oxoeicosanoid receptor 1 [Source:HGNC Symbol;Acc:HGNC:24884]	11	-2.68	0.6612	-4.1	4.9E-05	1.6E-04
ENSG00000003987	MTMR7	myotubularin related protein 7 [Source:HGNC Symbol;Acc:HGNC:7454]	10	-3.31	0.8166	-4.1	5.0E-05	1.6E-04
ENSG00000176907	TCIM	transcriptional and immune response regulator [Source:HGNC Symbol;Acc:HGNC:1357]	18	-1.95	0.4795	-4.1	5.0E-05	1.6E-04
ENSG00000132972	RNF17	ring finger protein 17 [Source:HGNC Symbol;Acc:HGNC:10060]	5	-5.59	1.3771	-4.1	5.0E-05	1.6E-04
ENSG00000212664	ENSG000002	ribosomal protein L17 (RPL17) pseudogene	209	-0.52	0.1287	-4.1	5.0E-05	1.6E-04
ENSG00000171951	SCG2	secretogranin II [Source:HGNC Symbol;Acc:HGNC:10575]	57	-1.08	0.2675	-4.1	5.0E-05	1.6E-04
ENSG00000082556	OPRK1	opioid receptor kappa 1 [Source:HGNC Symbol;Acc:HGNC:8154]	56	-1.01	0.2483	-4.1	5.1E-05	1.6E-04
ENSG00000197849	OR8G1	olfactory receptor family 8 subfamily G member 1 [Source:HGNC Symbol;Acc:HGNC:8484]	7	-5.28	1.3036	-4.0	5.2E-05	1.7E-04
ENSG00000176971	FIBIN	fin bud initiation factor homolog [Source:HGNC Symbol;Acc:HGNC:33747]	16	-2.12	0.5232	-4.0	5.2E-05	1.7E-04
ENSG00000144406	UNC80	unc-80 homolog, NALCN channel complex subunit [Source:HGNC Symbol;Acc:HGNC:26582]	14	-2.29	0.5676	-4.0	5.3E-05	1.7E-04
ENSG00000116147	TNR	tenascin R [Source:HGNC Symbol;Acc:HGNC:11953]	9	-3.32	0.8214	-4.0	5.3E-05	1.7E-04
ENSG00000242808	SOX2-OT	SOX2 overlapping transcript [Source:HGNC Symbol;Acc:HGNC:20209]	13	-2.48	0.6140	-4.0	5.4E-05	1.7E-04
ENSG00000077522	ACTN2	actinin alpha 2 [Source:HGNC Symbol;Acc:HGNC:164]	28	-1.45	0.3597	-4.0	5.4E-05	1.7E-04
ENSG00000232229	LINC00865	long intergenic non-protein coding RNA 865 [Source:HGNC Symbol;Acc:HGNC:45170]	13	-2.37	0.5874	-4.0	5.5E-05	1.8E-04
ENSG00000170899	GSTA4	glutathione S-transferase alpha 4 [Source:HGNC Symbol;Acc:HGNC:4629]	23	-1.74	0.4306	-4.0	5.5E-05	1.8E-04
ENSG00000153563	CD8A	CD8a molecule [Source:HGNC Symbol;Acc:HGNC:1706]	20	-1.84	0.4559	-4.0	5.6E-05	1.8E-04
ENSG00000231389	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:HGNC:4938]	43	-1.17	0.2911	-4.0	5.6E-05	1.8E-04
ENSG00000262370	ENSG000002	novel transcript	4	-5.56	1.3804	-4.0	5.6E-05	1.8E-04
ENSG00000112812	PRSS16	serine protease 16 [Source:HGNC Symbol;Acc:HGNC:9480]	124	-0.69	0.1725	-4.0	5.7E-05	1.8E-04
ENSG00000274825	ENSG000002	novel transcript	20	-1.94	0.4812	-4.0	5.8E-05	1.8E-04
ENSG00000100968	NFATC4	nuclear factor of activated T cells 4 [Source:HGNC Symbol;Acc:HGNC:7778]	12	-2.87	0.7129	-4.0	5.8E-05	1.9E-04

ENSG00000187951	ENSG000002	novel transcript	87	-0.90	0.2229	-4.0	5.8E-05	1.9E-04
ENSG00000171551	ECEL1	endothelin converting enzyme like 1 [Source:HGNC Symbol;Acc:HGNC:3147]	13	-2.40	0.5980	-4.0	5.9E-05	1.9E-04
ENSG00000164488	DACT2	dishevelled binding antagonist of beta catenin 2 [Source:HGNC Symbol;Acc:HGNC:21231]	7	-5.26	1.3097	-4.0	5.9E-05	1.9E-04
ENSG00000279419	ENSG000002	tec	9	-4.66	1.1612	-4.0	5.9E-05	1.9E-04
ENSG00000122574	WIPF3	WAS/WASL interacting protein family member 3 [Source:HGNC Symbol;Acc:HGNC:22004]	18	-2.04	0.5077	-4.0	6.0E-05	1.9E-04
ENSG00000277586	NEFL	neurofilament light [Source:HGNC Symbol;Acc:HGNC:7739]	13	-2.35	0.5846	-4.0	6.0E-05	1.9E-04
ENSG00000150048	CLEC1A	C-type lectin domain family 1 member A [Source:HGNC Symbol;Acc:HGNC:24355]	9	-3.60	0.9006	-4.0	6.5E-05	2.1E-04
ENSG00000235295	LINC01634	long intergenic non-protein coding RNA 1634 [Source:HGNC Symbol;Acc:HGNC:52421]	26	-1.54	0.3844	-4.0	6.5E-05	2.1E-04
ENSG00000169507	SLC38A11	solute carrier family 38 member 11 [Source:HGNC Symbol;Acc:HGNC:26836]	7	-5.23	1.3099	-4.0	6.5E-05	2.1E-04
ENSG00000137573	SULF1	sulfatase 1 [Source:HGNC Symbol;Acc:HGNC:20391]	11	-2.65	0.6645	-4.0	6.5E-05	2.1E-04
ENSG00000157833	GAREM2	GRB2 associated regulator of MAPK1 subtype 2 [Source:HGNC Symbol;Acc:HGNC:27172]	156	-0.59	0.1470	-4.0	6.6E-05	2.1E-04
ENSG00000272914	ENSG000002	novel transcript, sense intronic to ZNF438	7	-5.24	1.3122	-4.0	6.6E-05	2.1E-04
ENSG00000269973	ENSG000002	novel transcript	34	-1.31	0.3282	-4.0	6.6E-05	2.1E-04
ENSG00000075673	ATP12A	ATPase H+/K+ transporting non-gastric alpha2 subunit [Source:HGNC Symbol;Acc:HGNC:13816]	9	-4.59	1.1518	-4.0	6.7E-05	2.1E-04
ENSG00000287963	ENSG000002	novel transcript	117	-0.73	0.1838	-4.0	6.8E-05	2.1E-04
ENSG00000113263	ITK	IL2 inducible T cell kinase [Source:HGNC Symbol;Acc:HGNC:6171]	9	-3.58	0.8985	-4.0	6.8E-05	2.1E-04
ENSG00000114737	CISH	cytokine inducible SH2 containing protein [Source:HGNC Symbol;Acc:HGNC:1984]	49	-1.05	0.2633	-4.0	6.9E-05	2.2E-04
ENSG00000161281	COX7A1	cytochrome c oxidase subunit 7A1 [Source:HGNC Symbol;Acc:HGNC:2287]	13	-2.36	0.5926	-4.0	7.0E-05	2.2E-04
ENSG00000122971	ACADS	acyl-CoA dehydrogenase short chain [Source:HGNC Symbol;Acc:HGNC:90]	185	-0.54	0.1358	-4.0	7.1E-05	2.3E-04
ENSG00000198483	ANKRD35	ankyrin repeat domain 35 [Source:HGNC Symbol;Acc:HGNC:26323]	7	-5.29	1.3322	-4.0	7.1E-05	2.3E-04
ENSG00000174482	LINGO2	leucine rich repeat and Ig domain containing 2 [Source:HGNC Symbol;Acc:HGNC:21207]	4	-5.52	1.3900	-4.0	7.1E-05	2.3E-04
ENSG00000108759	KRT32	keratin 32 [Source:HGNC Symbol;Acc:HGNC:6449]	30	-1.39	0.3510	-4.0	7.2E-05	2.3E-04
ENSG00000152931	PART1	prostate androgen-regulated transcript 1 [Source:HGNC Symbol;Acc:HGNC:17263]	8	-3.94	0.9937	-4.0	7.3E-05	2.3E-04
ENSG00000197915	HRNR	hornerin [Source:HGNC Symbol;Acc:HGNC:20846]	13	-2.81	0.7095	-4.0	7.3E-05	2.3E-04
ENSG00000212237	RNA5SP18	RNA, 5S ribosomal pseudogene 18 [Source:HGNC Symbol;Acc:HGNC:42586]	12	-2.53	0.6380	-4.0	7.3E-05	2.3E-04
ENSG00000147443	DOK2	docking protein 2 [Source:HGNC Symbol;Acc:HGNC:2991]	10	-2.89	0.7296	-4.0	7.3E-05	2.3E-04
ENSG00000165566	AMER2	APC membrane recruitment protein 2 [Source:HGNC Symbol;Acc:HGNC:26360]	8	-3.90	0.9822	-4.0	7.3E-05	2.3E-04
ENSG00000187068	C3orf70	chromosome 3 open reading frame 70 [Source:HGNC Symbol;Acc:HGNC:33731]	9	-3.56	0.8967	-4.0	7.3E-05	2.3E-04
ENSG00000187553	CYP26C1	cytochrome P450 family 26 subfamily C member 1 [Source:HGNC Symbol;Acc:HGNC:20577]	11	-2.75	0.6948	-4.0	7.4E-05	2.3E-04
ENSG00000249279	LINC02057	long intergenic non-protein coding RNA 2057 [Source:HGNC Symbol;Acc:HGNC:52900]	45	-1.10	0.2786	-4.0	7.4E-05	2.4E-04
ENSG00000237732	CT75	cancer/testis associated transcript 75 [Source:HGNC Symbol;Acc:HGNC:37174]	19	-1.84	0.4656	-4.0	7.7E-05	2.4E-04
ENSG00000169220	RGS14	regulator of G protein signaling 14 [Source:HGNC Symbol;Acc:HGNC:9996]	121	-0.79	0.2005	-4.0	7.7E-05	2.4E-04
ENSG00000241735	FABP5P3	fatty acid binding protein 5 pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:22573]	20	-1.74	0.4401	-4.0	7.7E-05	2.4E-04
ENSG00000127152	BCL11B	BAF chromatin remodeling complex subunit BCL11B [Source:HGNC Symbol;Acc:HGNC:13222]	12	-2.52	0.6379	-3.9	7.8E-05	2.5E-04
ENSG00000180828	BHLHE22	basic helix-loop-helix family member e22 [Source:HGNC Symbol;Acc:HGNC:11963]	8	-3.92	0.9933	-3.9	7.8E-05	2.5E-04
ENSG00000102802	MEDAG	mesenteric estrogen dependent adipogenesis [Source:HGNC Symbol;Acc:HGNC:25926]	15	-2.14	0.5410	-3.9	7.9E-05	2.5E-04
ENSG00000140379	BCL2A1	BCL2 related protein A1 [Source:HGNC Symbol;Acc:HGNC:991]	17	-1.94	0.4914	-3.9	8.0E-05	2.5E-04
ENSG00000152270	PDE3B	phosphodiesterase 3B [Source:HGNC Symbol;Acc:HGNC:8779]	14	-2.20	0.5582	-3.9	8.0E-05	2.5E-04
ENSG00000160961	ZNF333	zinc finger protein 333 [Source:HGNC Symbol;Acc:HGNC:15624]	97	-0.74	0.1880	-3.9	8.1E-05	2.5E-04
ENSG00000135373	EHF	ETS homologous factor [Source:HGNC Symbol;Acc:HGNC:3246]	15	-2.08	0.5284	-3.9	8.2E-05	2.6E-04
ENSG00000133561	GIMAP6	GTPase, IMAP family member 6 [Source:HGNC Symbol;Acc:HGNC:21918]	12	-2.48	0.6307	-3.9	8.3E-05	2.6E-04
ENSG00000166450	PRTG	protogenin [Source:HGNC Symbol;Acc:HGNC:26373]	187	-0.54	0.1376	-3.9	8.3E-05	2.6E-04

ENSG00000167768	KRT1	keratin 1 [Source:HGNC Symbol;Acc:HGNC:6412]	4	-5.53	1.4045	-3.9	8.3E-05	2.6E-04
ENSG00000146197	SCUBE3	signal peptide, CUB domain and EGF like domain containing 3 [Source:HGNC Symbol;Acc:HGNC:13655]	169	-0.55	0.1411	-3.9	8.4E-05	2.6E-04
ENSG00000169435	RASSF6	Ras association domain family member 6 [Source:HGNC Symbol;Acc:HGNC:20796]	17	-2.12	0.5393	-3.9	8.4E-05	2.6E-04
ENSG00000287575	ENSG00000287575	novel transcript	8	-3.50	0.8903	-3.9	8.5E-05	2.7E-04
ENSG00000179855	GIPC3	GIPC PDZ domain containing family member 3 [Source:HGNC Symbol;Acc:HGNC:18183]	42	-1.18	0.3003	-3.9	8.7E-05	2.7E-04
ENSG00000183801	OLFML1	olfactomedin like 1 [Source:HGNC Symbol;Acc:HGNC:24473]	8	-3.89	0.9920	-3.9	8.7E-05	2.7E-04
ENSG00000197181	PIWIL2	piwi like RNA-mediated gene silencing 2 [Source:HGNC Symbol;Acc:HGNC:17644]	33	-1.28	0.3265	-3.9	8.7E-05	2.7E-04
ENSG00000215883	CYB5RL	cytochrome b5 reductase like [Source:HGNC Symbol;Acc:HGNC:32220]	65	-0.89	0.2275	-3.9	8.8E-05	2.8E-04
ENSG00000279495	ENSG00000279495	novel transcript	82	-0.80	0.2049	-3.9	8.9E-05	2.8E-04
ENSG00000136040	PLXNC1	plexin C1 [Source:HGNC Symbol;Acc:HGNC:9106]	40	-1.17	0.2986	-3.9	8.9E-05	2.8E-04
ENSG00000287356	ENSG00000287356	novel transcript, antisense to MORN1	43	-1.12	0.2850	-3.9	8.9E-05	2.8E-04
ENSG00000266970	SOCS3-DT	SOCS3 divergent transcript [Source:HGNC Symbol;Acc:HGNC:52799]	43	-1.13	0.2875	-3.9	8.9E-05	2.8E-04
NA	15	NA	17	-1.98	0.5052	-3.9	9.0E-05	2.8E-04
ENSG00000273328	ENSG00000273328	novel transcript	7	-5.15	1.3155	-3.9	9.0E-05	2.8E-04
ENSG00000260917	ENSG00000260917	novel transcript, overlapping to VT1A	72	-0.88	0.2255	-3.9	9.1E-05	2.8E-04
ENSG00000224784	S100A15A	S100 calcium binding protein A15A (pseudogene) [Source:HGNC Symbol;Acc:HGNC:53871]	4	-5.48	1.3995	-3.9	9.1E-05	2.8E-04
ENSG00000245651	ENSG00000245651	novel transcript	7	-5.15	1.3167	-3.9	9.2E-05	2.9E-04
ENSG00000133983	COX16	cytochrome c oxidase assembly factor COX16 [Source:HGNC Symbol;Acc:HGNC:20213]	27	-1.53	0.3912	-3.9	9.4E-05	2.9E-04
ENSG00000143387	CTSK	cathepsin K [Source:HGNC Symbol;Acc:HGNC:2536]	56	-1.00	0.2576	-3.9	9.6E-05	3.0E-04
ENSG00000135407	AVIL	advillin [Source:HGNC Symbol;Acc:HGNC:14188]	49	-1.06	0.2712	-3.9	9.6E-05	3.0E-04
ENSG00000106686	SPATA6L	spermatogenesis associated 6 like [Source:HGNC Symbol;Acc:HGNC:25472]	38	-1.30	0.3340	-3.9	9.8E-05	3.0E-04
ENSG00000093072	ADA2	adenosine deaminase 2 [Source:HGNC Symbol;Acc:HGNC:1839]	10	-2.88	0.7398	-3.9	9.8E-05	3.1E-04
ENSG00000237036	ZEB1-AS1	ZEB1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:42354]	35	-1.26	0.3225	-3.9	9.9E-05	3.1E-04
ENSG00000158786	PLA2G2F	phospholipase A2 group IIF [Source:HGNC Symbol;Acc:HGNC:30040]	10	-3.08	0.7900	-3.9	9.9E-05	3.1E-04
ENSG00000114013	CD86	CD86 molecule [Source:HGNC Symbol;Acc:HGNC:1705]	15	-2.14	0.5500	-3.9	1.0E-04	3.1E-04
ENSG00000155858	LSM11	LSM11, U7 small nuclear RNA associated [Source:HGNC Symbol;Acc:HGNC:30860]	181	0.53	0.1350	3.9	1.0E-04	3.1E-04
ENSG00000120860	WASHC3	WASH complex subunit 3 [Source:HGNC Symbol;Acc:HGNC:24256]	187	0.53	0.1354	3.9	9.3E-05	2.9E-04
ENSG00000154240	CEP112	centrosomal protein 112 [Source:HGNC Symbol;Acc:HGNC:28514]	51	1.08	0.2751	3.9	9.2E-05	2.9E-04
ENSG00000173530	TNFRSF10D	TNF receptor superfamily member 10d [Source:HGNC Symbol;Acc:HGNC:11907]	191	0.54	0.1375	3.9	9.1E-05	2.8E-04
ENSG00000105750	ZNF85	zinc finger protein 85 [Source:HGNC Symbol;Acc:HGNC:13160]	61	0.92	0.2356	3.9	8.9E-05	2.8E-04
ENSG00000011332	DPF1	double PHD fingers 1 [Source:HGNC Symbol;Acc:HGNC:20225]	194	0.53	0.1347	3.9	8.8E-05	2.7E-04
ENSG00000184083	FAM120C	family with sequence similarity 120C [Source:HGNC Symbol;Acc:HGNC:16949]	112	0.71	0.1815	3.9	8.7E-05	2.7E-04
ENSG00000287626	ENSG00000287626	novel transcript, antisense to DTNBP1	76	0.83	0.2103	3.9	8.6E-05	2.7E-04
ENSG00000167562	ZNF701	zinc finger protein 701 [Source:HGNC Symbol;Acc:HGNC:25597]	170	0.60	0.1532	3.9	8.6E-05	2.7E-04
ENSG00000140905	GCSH	glycine cleavage system protein H [Source:HGNC Symbol;Acc:HGNC:4208]	56	0.98	0.2498	3.9	8.5E-05	2.7E-04
ENSG00000233527	ZNF529-AS1	ZNF529 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:51275]	89	0.78	0.1993	3.9	8.2E-05	2.6E-04
ENSG00000283689	ENSG00000283689	novel transcript, antisense to IRX3	56	0.98	0.2486	3.9	8.0E-05	2.5E-04
ENSG00000175602	CCDC85B	coiled-coil domain containing 85B [Source:HGNC Symbol;Acc:HGNC:24926]	2083	0.71	0.1811	3.9	7.9E-05	2.5E-04
ENSG00000139194	RBP5	retinol binding protein 5 [Source:HGNC Symbol;Acc:HGNC:15847]	10	2.81	0.7111	3.9	7.9E-05	2.5E-04
ENSG00000267858	MZF1-AS1	MZF1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:51271]	81	0.82	0.2069	4.0	7.8E-05	2.5E-04
ENSG00000198721	ECL2	enoyl-CoA delta isomerase 2 [Source:HGNC Symbol;Acc:HGNC:14601]	181	0.55	0.1380	4.0	7.8E-05	2.4E-04
ENSG00000120833	SOCS2	suppressor of cytokine signaling 2 [Source:HGNC Symbol;Acc:HGNC:19382]	126	0.67	0.1687	4.0	7.6E-05	2.4E-04

ENSG00000233221	ENSG000002	novel transcript, antisense to ARHGEF4	22	1.69	0.4263	4.0	7.6E-05	2.4E-04
ENSG00000181004	BBS12	Bardet-Biedl syndrome 12 [Source:HGNC Symbol;Acc:HGNC:26648]	115	0.71	0.1787	4.0	7.6E-05	2.4E-04
ENSG00000140297	GCNT3	glucosaminyl (N-acetyl) transferase 3, mucin type [Source:HGNC Symbol;Acc:HGNC:4205]	20	1.74	0.4407	4.0	7.6E-05	2.4E-04
ENSG00000100209	HSCB	HscB mitochondrial iron-sulfur cluster cochaperone [Source:HGNC Symbol;Acc:HGNC:28913]	115	0.69	0.1734	4.0	7.5E-05	2.4E-04
ENSG00000161010	MRNIP	MRN complex interacting protein [Source:HGNC Symbol;Acc:HGNC:30817]	117	0.69	0.1746	4.0	7.0E-05	2.2E-04
ENSG00000227295	ELL2P1	elongation factor for RNA polymerase II 2 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:39343]	10	3.00	0.7531	4.0	7.0E-05	2.2E-04
ENSG00000234743	EIF5AP4	eukaryotic translation initiation factor 5A pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:31442]	149	0.60	0.1498	4.0	6.7E-05	2.1E-04
ENSG00000111671	SPSB2	splA/ryanodine receptor domain and SOCS box containing 2 [Source:HGNC Symbol;Acc:HGNC:29522]	191	0.53	0.1327	4.0	6.7E-05	2.1E-04
ENSG00000154678	PDE1C	phosphodiesterase 1C [Source:HGNC Symbol;Acc:HGNC:8776]	15	2.06	0.5156	4.0	6.5E-05	2.1E-04
ENSG00000282164	PEG13	paternally expressed 13 [Source:HGNC Symbol;Acc:HGNC:19969]	69	0.89	0.2232	4.0	6.4E-05	2.0E-04
ENSG00000165698	SPACA9	sperm acrosome associated 9 [Source:HGNC Symbol;Acc:HGNC:1367]	167	0.58	0.1447	4.0	6.3E-05	2.0E-04
ENSG00000204257	HLA-DMA	major histocompatibility complex, class II, DM alpha [Source:HGNC Symbol;Acc:HGNC:4934]	22	1.82	0.4555	4.0	6.3E-05	2.0E-04
ENSG00000237594	ENSG000002	novel transcript, antisense to TIAM1	42	1.15	0.2884	4.0	6.2E-05	2.0E-04
ENSG00000118922	KLF12	Kruppel like factor 12 [Source:HGNC Symbol;Acc:HGNC:6346]	33	1.40	0.3487	4.0	6.2E-05	2.0E-04
ENSG00000176692	FOXC2	forkhead box C2 [Source:HGNC Symbol;Acc:HGNC:3801]	8	4.03	1.0047	4.0	6.1E-05	2.0E-04
ENSG00000219470	ENSG000002	40S ribosomal protein S2 (RPS2) pseudogene	65	0.97	0.2412	4.0	6.1E-05	1.9E-04
ENSG00000157110	RBPMS	RNA binding protein, mRNA processing factor [Source:HGNC Symbol;Acc:HGNC:19097]	200	0.53	0.1327	4.0	6.0E-05	1.9E-04
ENSG00000139178	C1RL	complement C1r subcomponent like [Source:HGNC Symbol;Acc:HGNC:21265]	45	2.13	0.5298	4.0	5.8E-05	1.9E-04
ENSG00000267226	MALT1-AS1	MALT1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:55306]	17	2.08	0.5176	4.0	5.7E-05	1.8E-04
ENSG00000251593	MSNP1	moesin pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:7374]	11	2.69	0.6684	4.0	5.7E-05	1.8E-04
ENSG00000233654	ENSG000002	novel transcript	33	1.43	0.3536	4.0	5.6E-05	1.8E-04
ENSG00000088970	KIZ	kizuna centrosomal protein [Source:HGNC Symbol;Acc:HGNC:15865]	108	0.72	0.1793	4.0	5.5E-05	1.8E-04
ENSG00000171160	MORN4	MORN repeat containing 4 [Source:HGNC Symbol;Acc:HGNC:24001]	190	0.57	0.1411	4.0	5.3E-05	1.7E-04
ENSG00000124191	TOX2	TOX high mobility group box family member 2 [Source:HGNC Symbol;Acc:HGNC:16095]	62	1.05	0.2587	4.0	5.3E-05	1.7E-04
ENSG00000268916	CSAG3	CSAG family member 3 [Source:HGNC Symbol;Acc:HGNC:26237]	234	0.50	0.1244	4.0	5.3E-05	1.7E-04
ENSG00000185875	THNSL1	threonine synthase like 1 [Source:HGNC Symbol;Acc:HGNC:26160]	103	0.74	0.1840	4.0	5.2E-05	1.7E-04
ENSG00000162620	LRRIQ3	leucine rich repeats and IQ motif containing 3 [Source:HGNC Symbol;Acc:HGNC:28318]	16	2.16	0.5328	4.1	5.0E-05	1.6E-04
ENSG00000145934	TENM2	teneurin transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:29943]	18	1.97	0.4839	4.1	4.8E-05	1.6E-04
ENSG00000213213	CCDC183	coiled-coil domain containing 183 [Source:HGNC Symbol;Acc:HGNC:28236]	46	1.12	0.2752	4.1	4.6E-05	1.5E-04
ENSG00000123570	RAB9B	RAB9B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:14090]	48	1.10	0.2691	4.1	4.6E-05	1.5E-04
ENSG00000144488	ESPNL	espin like [Source:HGNC Symbol;Acc:HGNC:27937]	9	3.38	0.8273	4.1	4.5E-05	1.5E-04
ENSG00000078098	FAP	fibroblast activation protein alpha [Source:HGNC Symbol;Acc:HGNC:3590]	126	0.70	0.1705	4.1	4.4E-05	1.4E-04
ENSG00000196081	ZNF724	zinc finger protein 724 [Source:HGNC Symbol;Acc:HGNC:32460]	36	1.28	0.3128	4.1	4.3E-05	1.4E-04
ENSG00000183840	GPR39	G protein-coupled receptor 39 [Source:HGNC Symbol;Acc:HGNC:4496]	145	0.70	0.1707	4.1	4.3E-05	1.4E-04
ENSG00000119547	ONECUT2	one cut homeobox 2 [Source:HGNC Symbol;Acc:HGNC:8139]	207	0.52	0.1268	4.1	4.3E-05	1.4E-04
ENSG00000188512	ENSG000001	cytochrome c, somatic (CYCS) pseudogene	72	0.92	0.2258	4.1	4.2E-05	1.4E-04
ENSG00000265185	SNORD3B-1	small nucleolar RNA, C/D box 3B-1 [Source:HGNC Symbol;Acc:HGNC:10168]	212	0.54	0.1310	4.1	4.1E-05	1.4E-04
ENSG00000253837	ENSG000002	novel transcript	5	5.72	1.3942	4.1	4.1E-05	1.3E-04
ENSG00000251179	TMEM92-AS	TMEM92 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:50442]	5	5.75	1.4008	4.1	4.1E-05	1.3E-04
ENSG00000168298	H1-4	H1.4 linker histone, cluster member [Source:HGNC Symbol;Acc:HGNC:4718]	20	1.83	0.4446	4.1	4.0E-05	1.3E-04
ENSG00000151470	C4orf33	chromosome 4 open reading frame 33 [Source:HGNC Symbol;Acc:HGNC:27025]	157	0.60	0.1462	4.1	4.0E-05	1.3E-04
ENSG00000204965	PCDHA5	protocadherin alpha 5 [Source:HGNC Symbol;Acc:HGNC:8671]	9	4.69	1.1414	4.1	4.0E-05	1.3E-04

ENSG00000263072	ZNF213-AS1	ZNF213 antisense RNA 1 (head to head) [Source:HGNC Symbol;Acc:HGNC:50505]	143	0.65	0.1583	4.1	3.9E-05	1.3E-04
ENSG00000258477	PPIAP6	peptidylprolyl isomerase A pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:20028]	34	1.38	0.3349	4.1	3.7E-05	1.2E-04
ENSG00000245275	SAP30L-AS1	SAP30L antisense RNA 1 (head to head) [Source:HGNC Symbol;Acc:HGNC:26760]	92	0.82	0.1994	4.1	3.6E-05	1.2E-04
ENSG00000287625	ENSG000002	novel transcript	55	1.08	0.2621	4.1	3.5E-05	1.2E-04
ENSG00000234362	LINC01914	long intergenic non-protein coding RNA 1914 [Source:HGNC Symbol;Acc:HGNC:52733]	9	4.76	1.1505	4.1	3.5E-05	1.2E-04
ENSG00000221866	PLXNA4	plexin A4 [Source:HGNC Symbol;Acc:HGNC:9102]	46	1.18	0.2842	4.1	3.5E-05	1.1E-04
ENSG00000226499	ENSG000002	ribosomal protein S2 (RPS2) pseudogene	26	1.60	0.3858	4.1	3.4E-05	1.1E-04
ENSG00000146666	LINC00525	long intergenic non-protein coding RNA 525 [Source:HGNC Symbol;Acc:HGNC:40290]	8	5.48	1.3236	4.1	3.4E-05	1.1E-04
ENSG00000178187	ZNF454	zinc finger protein 454 [Source:HGNC Symbol;Acc:HGNC:21200]	7	5.41	1.3038	4.1	3.4E-05	1.1E-04
ENSG00000231721	LINC-PINT	long intergenic non-protein coding RNA, p53 induced transcript [Source:HGNC Symbol;Acc:HGNC:26885]	41	1.25	0.3014	4.2	3.3E-05	1.1E-04
ENSG00000287733	ENSG000002	novel transcript	35	1.31	0.3157	4.2	3.2E-05	1.1E-04
ENSG00000106089	STX1A	syntaxin 1A [Source:HGNC Symbol;Acc:HGNC:11433]	157	0.64	0.1537	4.2	2.9E-05	9.5E-05
ENSG00000267053	ENSG000002	novel transcript	14	2.35	0.5593	4.2	2.7E-05	8.9E-05
ENSG00000154529	CNTNAP3B	contactin associated protein family member 3B [Source:HGNC Symbol;Acc:HGNC:32035]	12	2.72	0.6472	4.2	2.6E-05	8.7E-05
ENSG00000185046	ANKS1B	ankyrin repeat and sterile alpha motif domain containing 1B [Source:HGNC Symbol;Acc:HGNC:24600]	15	2.18	0.5184	4.2	2.5E-05	8.5E-05
ENSG00000094841	UPRT	uracil phosphoribosyltransferase homolog [Source:HGNC Symbol;Acc:HGNC:28334]	181	0.59	0.1403	4.2	2.5E-05	8.4E-05
ENSG00000154309	DISP1	dispatched RND transporter family member 1 [Source:HGNC Symbol;Acc:HGNC:19711]	35	1.34	0.3180	4.2	2.5E-05	8.3E-05
ENSG00000164002	EXO5	exonuclease 5 [Source:HGNC Symbol;Acc:HGNC:26115]	180	0.58	0.1368	4.2	2.3E-05	7.8E-05
ENSG00000160256	FAM207A	family with sequence similarity 207 member A [Source:HGNC Symbol;Acc:HGNC:15811]	1310	0.50	0.1184	4.2	2.3E-05	7.6E-05
ENSG00000198453	ZNF568	zinc finger protein 568 [Source:HGNC Symbol;Acc:HGNC:25392]	157	0.65	0.1527	4.2	2.3E-05	7.5E-05
ENSG00000156958	GALK2	galactokinase 2 [Source:HGNC Symbol;Acc:HGNC:4119]	140	0.66	0.1558	4.2	2.3E-05	7.5E-05
ENSG00000227124	ZNF717	zinc finger protein 717 [Source:HGNC Symbol;Acc:HGNC:29448]	60	1.09	0.2562	4.3	2.1E-05	7.1E-05
ENSG00000137877	SPTBN5	spectrin beta, non-erythrocytic 5 [Source:HGNC Symbol;Acc:HGNC:15680]	106	0.79	0.1853	4.3	2.1E-05	7.1E-05
ENSG00000196139	AKR1C3	aldo-keto reductase family 1 member C3 [Source:HGNC Symbol;Acc:HGNC:386]	19	1.97	0.4631	4.3	2.1E-05	6.9E-05
ENSG00000101276	SLC52A3	solute carrier family 52 member 3 [Source:HGNC Symbol;Acc:HGNC:16187]	175	0.59	0.1374	4.3	2.0E-05	6.7E-05
ENSG00000273143	DUSP5-DT	DUSP5 divergent transcript [Source:HGNC Symbol;Acc:HGNC:55154]	10	3.55	0.8329	4.3	2.0E-05	6.7E-05
ENSG00000184986	TMEM121	transmembrane protein 121 [Source:HGNC Symbol;Acc:HGNC:20511]	134	0.73	0.1719	4.3	1.9E-05	6.5E-05
ENSG00000253716	MINCR	MYC-induced long non-coding RNA [Source:HGNC Symbol;Acc:HGNC:51653]	140	0.68	0.1592	4.3	1.9E-05	6.3E-05
ENSG00000260442	ATP2A1-AS1	ATP2A1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:51370]	17	2.21	0.5161	4.3	1.9E-05	6.3E-05
ENSG00000197191	CYSRT1	cysteine rich tail 1 [Source:HGNC Symbol;Acc:HGNC:30529]	94	0.84	0.1966	4.3	1.8E-05	6.1E-05
ENSG00000119943	PYROXD2	pyridine nucleotide-disulphide oxidoreductase domain 2 [Source:HGNC Symbol;Acc:HGNC:23517]	48	1.25	0.2919	4.3	1.8E-05	6.1E-05
ENSG00000164221	CCDC112	coiled-coil domain containing 112 [Source:HGNC Symbol;Acc:HGNC:28599]	72	0.92	0.2154	4.3	1.8E-05	6.0E-05
ENSG00000269959	SPACA6P-AS	SPACA6P antisense RNA [Source:HGNC Symbol;Acc:HGNC:49383]	32	1.48	0.3453	4.3	1.8E-05	5.9E-05
ENSG00000246334	PRR7-AS1	PRR7 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:27961]	25	1.66	0.3859	4.3	1.8E-05	5.9E-05
ENSG00000242732	RTL5	retrotransposon Gag like 5 [Source:HGNC Symbol;Acc:HGNC:29430]	54	1.14	0.2663	4.3	1.7E-05	5.8E-05
ENSG00000137720	C11orf1	chromosome 11 open reading frame 1 [Source:HGNC Symbol;Acc:HGNC:1163]	171	0.62	0.1439	4.3	1.7E-05	5.8E-05
ENSG00000183793	NPIPA5	nuclear pore complex interacting protein family member A5 [Source:HGNC Symbol;Acc:HGNC:41980]	9	3.77	0.8749	4.3	1.7E-05	5.6E-05
ENSG00000196693	ZNF33B	zinc finger protein 33B [Source:HGNC Symbol;Acc:HGNC:13097]	209	0.56	0.1291	4.3	1.7E-05	5.6E-05
ENSG00000197568	HHLA3	HERV-H LTR-associating 3 [Source:HGNC Symbol;Acc:HGNC:4906]	57	1.08	0.2503	4.3	1.6E-05	5.5E-05
ENSG00000146592	CREB5	cAMP responsive element binding protein 5 [Source:HGNC Symbol;Acc:HGNC:16844]	53	1.10	0.2538	4.3	1.6E-05	5.4E-05
ENSG00000165983	PTER	phosphotriesterase related [Source:HGNC Symbol;Acc:HGNC:9590]	174	0.63	0.1462	4.3	1.6E-05	5.4E-05
ENSG00000065615	CYB5R4	cytochrome b5 reductase 4 [Source:HGNC Symbol;Acc:HGNC:20147]	243	0.51	0.1180	4.3	1.6E-05	5.3E-05

ENSG00000184517	ZFP1	ZFP1 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:23328]	143	0.66	0.1519	4.3	1.5E-05	5.1E-05
ENSG00000286966	ENSG000002	novel transcript	10	3.28	0.7558	4.3	1.4E-05	4.9E-05
ENSG00000259230	LINC02323	long intergenic non-protein coding RNA 2323 [Source:HGNC Symbol;Acc:HGNC:53242]	19	1.99	0.4588	4.3	1.4E-05	4.7E-05
ENSG00000204764	RANBP17	RAN binding protein 17 [Source:HGNC Symbol;Acc:HGNC:14428]	165	0.63	0.1445	4.4	1.3E-05	4.5E-05
ENSG00000185920	PTCH1	patched 1 [Source:HGNC Symbol;Acc:HGNC:9585]	212	0.57	0.1301	4.4	1.2E-05	4.2E-05
ENSG00000267454	ZNF582-DT	ZNF582 divergent transcript [Source:HGNC Symbol;Acc:HGNC:25213]	39	1.37	0.3119	4.4	1.2E-05	4.1E-05
ENSG00000176593	ENSG000001	novel transcript, antisense to ZNF606	123	0.76	0.1745	4.4	1.2E-05	4.1E-05
NA	13	NA	5	5.95	1.3570	4.4	1.2E-05	4.1E-05
ENSG00000172986	GXYLT2	glucoside xylosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:33383]	104	0.83	0.1885	4.4	1.2E-05	4.0E-05
ENSG00000255248	MIR100HG	mir-100-let-7a-2-mir-125b-1 cluster host gene [Source:HGNC Symbol;Acc:HGNC:39522]	226	0.57	0.1293	4.4	1.2E-05	4.0E-05
ENSG00000147036	LANCL3	LanC like 3 [Source:HGNC Symbol;Acc:HGNC:24767]	137	0.70	0.1580	4.4	1.1E-05	3.7E-05
ENSG00000115041	KCNIP3	potassium voltage-gated channel interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:15523]	51	1.16	0.2627	4.4	1.1E-05	3.7E-05
ENSG00000153234	NR4A2	nuclear receptor subfamily 4 group A member 2 [Source:HGNC Symbol;Acc:HGNC:7981]	80	0.95	0.2165	4.4	1.1E-05	3.7E-05
ENSG00000140961	OSGIN1	oxidative stress induced growth inhibitor 1 [Source:HGNC Symbol;Acc:HGNC:30093]	132	0.76	0.1725	4.4	1.1E-05	3.7E-05
ENSG00000250508	LINC02701	long intergenic non-protein coding RNA 2701 [Source:HGNC Symbol;Acc:HGNC:54216]	10	4.31	0.9754	4.4	1.0E-05	3.5E-05
ENSG00000179148	ALOXE3	arachidonate lipoxygenase 3 [Source:HGNC Symbol;Acc:HGNC:13743]	175	0.72	0.1632	4.4	9.9E-06	3.4E-05
ENSG00000215146	ENSG000002	zinc finger protein pseudogene	33	1.52	0.3437	4.4	9.9E-06	3.4E-05
ENSG00000153896	ZNF599	zinc finger protein 599 [Source:HGNC Symbol;Acc:HGNC:26408]	136	0.70	0.1582	4.4	9.6E-06	3.4E-05
ENSG00000217236	SP9	Sp9 transcription factor [Source:HGNC Symbol;Acc:HGNC:30690]	12	2.81	0.6353	4.4	9.6E-06	3.3E-05
ENSG00000272695	GAS6-DT	GAS6 divergent transcript [Source:HGNC Symbol;Acc:HGNC:43694]	11	3.18	0.7178	4.4	9.4E-06	3.3E-05
ENSG00000147606	SLC26A7	solute carrier family 26 member 7 [Source:HGNC Symbol;Acc:HGNC:14467]	10	4.31	0.9672	4.5	8.4E-06	2.9E-05
ENSG00000183386	FHL3	four and a half LIM domains 3 [Source:HGNC Symbol;Acc:HGNC:3704]	134	0.70	0.1567	4.5	8.2E-06	2.9E-05
ENSG00000198839	ZNF277	zinc finger protein 277 [Source:HGNC Symbol;Acc:HGNC:13070]	186	0.60	0.1335	4.5	7.8E-06	2.7E-05
NA	20	NA	10	3.89	0.8681	4.5	7.5E-06	2.6E-05
ENSG00000262585	LINC01979	long intergenic non-protein coding RNA 1979 [Source:HGNC Symbol;Acc:HGNC:52807]	6	6.05	1.3505	4.5	7.5E-06	2.6E-05
ENSG00000285517	ENSG000002	long intergenic non-protein coding RNA 941	11	3.40	0.7596	4.5	7.4E-06	2.6E-05
ENSG00000126778	SIX1	SIX homeobox 1 [Source:HGNC Symbol;Acc:HGNC:10887]	128	0.78	0.1742	4.5	7.3E-06	2.6E-05
ENSG00000104427	ZC2HC1A	zinc finger C2HC-type containing 1A [Source:HGNC Symbol;Acc:HGNC:24277]	86	0.91	0.2011	4.5	6.8E-06	2.4E-05
ENSG00000198838	RYR3	ryanodine receptor 3 [Source:HGNC Symbol;Acc:HGNC:10485]	71	1.00	0.2209	4.5	6.6E-06	2.3E-05
ENSG00000132329	RAMP1	receptor activity modifying protein 1 [Source:HGNC Symbol;Acc:HGNC:9843]	50	1.19	0.2641	4.5	6.1E-06	2.2E-05
ENSG00000213104	NPM1P46	nucleophosmin 1 pseudogene 46 [Source:HGNC Symbol;Acc:HGNC:45225]	74	0.98	0.2163	4.5	6.0E-06	2.1E-05
ENSG00000155666	KDM8	lysine demethylase 8 [Source:HGNC Symbol;Acc:HGNC:25840]	57	1.18	0.2599	4.5	5.9E-06	2.1E-05
ENSG00000107614	TRDMT1	tRNA aspartic acid methyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:2977]	52	1.18	0.2594	4.5	5.9E-06	2.1E-05
ENSG00000231187	ENSG000002	novel transcript	41	1.33	0.2934	4.5	5.9E-06	2.1E-05
ENSG00000198182	ZNF607	zinc finger protein 607 [Source:HGNC Symbol;Acc:HGNC:28192]	199	0.61	0.1344	4.5	5.8E-06	2.1E-05
ENSG00000128271	ADORA2A	adenosine A2a receptor [Source:HGNC Symbol;Acc:HGNC:263]	30	1.64	0.3623	4.5	5.7E-06	2.0E-05
ENSG00000106404	CLDN15	claudin 15 [Source:HGNC Symbol;Acc:HGNC:2036]	175	0.69	0.1511	4.5	5.6E-06	2.0E-05
ENSG00000127399	LRRC61	leucine rich repeat containing 61 [Source:HGNC Symbol;Acc:HGNC:21704]	88	0.90	0.1975	4.5	5.6E-06	2.0E-05
ENSG00000168237	GLYCTK	glycerate kinase [Source:HGNC Symbol;Acc:HGNC:24247]	96	0.87	0.1905	4.5	5.6E-06	2.0E-05
ENSG00000149380	P4HA3	prolyl 4-hydroxylase subunit alpha 3 [Source:HGNC Symbol;Acc:HGNC:30135]	52	1.24	0.2725	4.5	5.5E-06	2.0E-05
ENSG00000223345	H2BP1	H2B histone pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:20560]	13	2.88	0.6335	4.5	5.4E-06	1.9E-05
ENSG00000163528	CHCHD4	coiled-coil-helix-coiled-coil-helix domain containing 4 [Source:HGNC Symbol;Acc:HGNC:26467]	296	0.50	0.1101	4.6	5.2E-06	1.9E-05

ENSG00000214510	SPINK13	serine peptidase inhibitor Kazal type 13 [Source:HGNC Symbol;Acc:HGNC:27200]	22	2.00	0.4392	4.6	5.2E-06	1.9E-05
ENSG00000160183	TMPRSS3	transmembrane serine protease 3 [Source:HGNC Symbol;Acc:HGNC:11877]	10	5.83	1.2783	4.6	5.2E-06	1.8E-05
ENSG00000182310	SPACA6	sperm acrosome associated 6 [Source:HGNC Symbol;Acc:HGNC:27113]	280	0.51	0.1122	4.6	5.0E-06	1.8E-05
ENSG00000165238	WNK2	WNK lysine deficient protein kinase 2 [Source:HGNC Symbol;Acc:HGNC:14542]	98	0.90	0.1977	4.6	4.9E-06	1.8E-05
ENSG00000248323	LUCAT1	lung cancer associated transcript 1 [Source:HGNC Symbol;Acc:HGNC:48498]	163	0.66	0.1446	4.6	4.9E-06	1.8E-05
ENSG00000197110	IFNL3	interferon lambda 3 [Source:HGNC Symbol;Acc:HGNC:18365]	15	2.45	0.5368	4.6	4.9E-06	1.8E-05
ENSG00000285043	ENSG000002	novel protein	55	1.17	0.2552	4.6	4.9E-06	1.7E-05
ENSG00000158882	TOMM40L	translocase of outer mitochondrial membrane 40 like [Source:HGNC Symbol;Acc:HGNC:25756]	216	0.57	0.1249	4.6	4.8E-06	1.7E-05
ENSG00000171840	NINJ2	ninjurin 2 [Source:HGNC Symbol;Acc:HGNC:7825]	49	1.28	0.2792	4.6	4.7E-06	1.7E-05
ENSG00000067836	ROGDI	rogdi atypical leucine zipper [Source:HGNC Symbol;Acc:HGNC:29478]	164	0.66	0.1445	4.6	4.7E-06	1.7E-05
ENSG00000254332	ENSG000002	tropomyosin 4 (TPM4) pseudogene	30	1.66	0.3621	4.6	4.6E-06	1.7E-05
ENSG00000198482	ZNF808	zinc finger protein 808 [Source:HGNC Symbol;Acc:HGNC:33230]	90	0.90	0.1959	4.6	4.5E-06	1.6E-05
ENSG00000197114	ZGPAT	zinc finger CCCH-type and G-patch domain containing [Source:HGNC Symbol;Acc:HGNC:15948]	196	0.65	0.1414	4.6	4.2E-06	1.5E-05
ENSG00000232187	FTH1P7	ferritin heavy chain 1 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:3994]	136	0.80	0.1730	4.6	4.1E-06	1.5E-05
ENSG00000169955	ZNF747	zinc finger protein 747 [Source:HGNC Symbol;Acc:HGNC:28350]	89	0.95	0.2060	4.6	4.0E-06	1.4E-05
ENSG00000044459	CNTLN	centlein [Source:HGNC Symbol;Acc:HGNC:23432]	201	0.61	0.1321	4.6	4.0E-06	1.4E-05
ENSG00000163686	ABHD6	abhydrolase domain containing 6, acylglycerol lipase [Source:HGNC Symbol;Acc:HGNC:21398]	176	0.67	0.1447	4.6	4.0E-06	1.4E-05
ENSG00000106004	HOXA5	homeobox A5 [Source:HGNC Symbol;Acc:HGNC:5106]	108	0.85	0.1833	4.6	3.9E-06	1.4E-05
ENSG00000163661	PTX3	pentraxin 3 [Source:HGNC Symbol;Acc:HGNC:9692]	42	1.47	0.3187	4.6	3.8E-06	1.4E-05
ENSG00000186642	PDE2A	phosphodiesterase 2A [Source:HGNC Symbol;Acc:HGNC:8777]	53	1.24	0.2690	4.6	3.7E-06	1.4E-05
ENSG00000188669	ZNF582	zinc finger protein 582 [Source:HGNC Symbol;Acc:HGNC:26421]	67	1.06	0.2302	4.6	3.7E-06	1.4E-05
ENSG00000204681	GABBR1	gamma-aminobutyric acid type B receptor subunit 1 [Source:HGNC Symbol;Acc:HGNC:4070]	85	0.96	0.2070	4.6	3.5E-06	1.3E-05
ENSG00000152669	CCNO	cyclin O [Source:HGNC Symbol;Acc:HGNC:18576]	258	0.54	0.1173	4.6	3.4E-06	1.2E-05
ENSG00000225206	MIR137HG	MIR137 host gene [Source:HGNC Symbol;Acc:HGNC:42871]	167	0.66	0.1411	4.7	3.3E-06	1.2E-05
ENSG00000134321	RSAD2	radical S-adenosyl methionine domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30908]	1225	0.82	0.1762	4.7	3.3E-06	1.2E-05
ENSG00000230555	ENSG000002	novel transcript	55	1.17	0.2513	4.7	3.2E-06	1.2E-05
ENSG00000127507	ADGRE2	adhesion G protein-coupled receptor E2 [Source:HGNC Symbol;Acc:HGNC:3337]	263	0.54	0.1151	4.7	3.2E-06	1.2E-05
ENSG00000275494	ENSG000002	novel transcript	35	1.53	0.3277	4.7	3.1E-06	1.1E-05
ENSG00000233006	MIR3936HG	MIR3936 host gene [Source:HGNC Symbol;Acc:HGNC:40538]	85	1.00	0.2132	4.7	2.9E-06	1.1E-05
ENSG00000152467	ZSCAN1	zinc finger and SCAN domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23712]	60	1.14	0.2442	4.7	2.9E-06	1.1E-05
ENSG00000237440	ZNF737	zinc finger protein 737 [Source:HGNC Symbol;Acc:HGNC:32468]	59	1.21	0.2582	4.7	2.8E-06	1.0E-05
ENSG00000143512	HHIPL2	HHIP like 2 [Source:HGNC Symbol;Acc:HGNC:25842]	13	2.90	0.6195	4.7	2.8E-06	1.0E-05
ENSG00000115718	PROC	protein C, inactivator of coagulation factors Va and VIIIa [Source:HGNC Symbol;Acc:HGNC:9451]	42	1.42	0.3028	4.7	2.8E-06	1.0E-05
ENSG00000102595	UGGT2	UDP-glucose glycoprotein glucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:15664]	295	0.51	0.1091	4.7	2.7E-06	1.0E-05
ENSG00000061656	SPAG4	sperm associated antigen 4 [Source:HGNC Symbol;Acc:HGNC:11214]	228	0.58	0.1233	4.7	2.7E-06	9.9E-06
ENSG00000047634	SCML1	Scm polycomb group protein like 1 [Source:HGNC Symbol;Acc:HGNC:10580]	90	0.93	0.1980	4.7	2.7E-06	9.9E-06
ENSG00000253731	PCDHGA6	protocadherin gamma subfamily A, 6 [Source:HGNC Symbol;Acc:HGNC:8704]	19	2.24	0.4758	4.7	2.6E-06	9.7E-06
ENSG00000167656	LY6D	lymphocyte antigen 6 family member D [Source:HGNC Symbol;Acc:HGNC:13348]	225	0.58	0.1229	4.7	2.6E-06	9.5E-06
ENSG00000119242	CCDC92	coiled-coil domain containing 92 [Source:HGNC Symbol;Acc:HGNC:29563]	61	1.12	0.2373	4.7	2.6E-06	9.5E-06
ENSG00000167232	ZNF91	zinc finger protein 91 [Source:HGNC Symbol;Acc:HGNC:13166]	245	0.58	0.1242	4.7	2.5E-06	9.3E-06
ENSG00000164619	BMPER	BMP binding endothelial regulator [Source:HGNC Symbol;Acc:HGNC:24154]	85	0.93	0.1970	4.7	2.5E-06	9.3E-06
ENSG00000188493	C19orf54	chromosome 19 open reading frame 54 [Source:HGNC Symbol;Acc:HGNC:24758]	307	0.51	0.1092	4.7	2.5E-06	9.1E-06

ENSG00000143479	DYRK3	dual specificity tyrosine phosphorylation regulated kinase 3 [Source:HGNC Symbol;Acc:HGNC:3094]	100	0.91	0.1934	4.7	2.4E-06	9.0E-06
ENSG00000173926	MARCHF3	membrane associated ring-CH-type finger 3 [Source:HGNC Symbol;Acc:HGNC:28728]	49	1.30	0.2752	4.7	2.4E-06	8.8E-06
ENSG00000135111	TBX3	T-box transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:11602]	127	0.84	0.1776	4.7	2.3E-06	8.6E-06
ENSG00000161647	MPP3	membrane palmitoylated protein 3 [Source:HGNC Symbol;Acc:HGNC:7221]	186	0.63	0.1342	4.7	2.3E-06	8.6E-06
ENSG00000262136	NQO1-DT	NQO1 divergent transcript [Source:HGNC Symbol;Acc:HGNC:55344]	21	2.10	0.4445	4.7	2.3E-06	8.6E-06
ENSG00000172260	NEGR1	neuronal growth regulator 1 [Source:HGNC Symbol;Acc:HGNC:17302]	11	3.79	0.8020	4.7	2.3E-06	8.4E-06
ENSG00000262152	LINC00514	long intergenic non-protein coding RNA 514 [Source:HGNC Symbol;Acc:HGNC:27549]	120	0.79	0.1669	4.7	2.2E-06	8.2E-06
ENSG00000116701	NCF2	neutrophil cytosolic factor 2 [Source:HGNC Symbol;Acc:HGNC:7661]	122	0.81	0.1717	4.7	2.2E-06	8.1E-06
ENSG00000218226	TATDN2P2	TatD DNase domain containing 2 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:39255]	80	1.00	0.2104	4.7	2.2E-06	8.1E-06
ENSG00000131650	KREMEN2	kringle containing transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:18797]	188	0.66	0.1402	4.7	2.1E-06	7.9E-06
ENSG00000204174	NPY4R	neuropeptide Y receptor Y4 [Source:HGNC Symbol;Acc:HGNC:9329]	11	3.75	0.7913	4.7	2.1E-06	7.8E-06
ENSG00000237004	ZNRF2P1	zinc and ring finger 2 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:42792]	102	0.94	0.1973	4.7	2.1E-06	7.7E-06
ENSG00000247828	TMEM161B	TMEM161B antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:43839]	320	0.50	0.1054	4.7	2.1E-06	7.7E-06
ENSG00000170100	ZNF778	zinc finger protein 778 [Source:HGNC Symbol;Acc:HGNC:26479]	321	0.50	0.1053	4.8	2.0E-06	7.5E-06
ENSG00000123388	HOXC11	homeobox C11 [Source:HGNC Symbol;Acc:HGNC:5123]	63	1.15	0.2414	4.8	2.0E-06	7.5E-06
ENSG00000197479	PCDH11	protocadherin beta 11 [Source:HGNC Symbol;Acc:HGNC:8682]	15	2.93	0.6153	4.8	2.0E-06	7.4E-06
ENSG00000186153	WWOX	WW domain containing oxidoreductase [Source:HGNC Symbol;Acc:HGNC:12799]	217	0.59	0.1244	4.8	1.8E-06	6.7E-06
ENSG00000184988	TMEM106A	transmembrane protein 106A [Source:HGNC Symbol;Acc:HGNC:28288]	23	2.00	0.4184	4.8	1.8E-06	6.7E-06
ENSG00000101049	SGK2	serum/glucocorticoid regulated kinase 2 [Source:HGNC Symbol;Acc:HGNC:13900]	13	3.07	0.6431	4.8	1.8E-06	6.6E-06
ENSG00000170088	TMEM192	transmembrane protein 192 [Source:HGNC Symbol;Acc:HGNC:26775]	259	0.57	0.1185	4.8	1.7E-06	6.5E-06
ENSG00000169857	AVEN	apoptosis and caspase activation inhibitor [Source:HGNC Symbol;Acc:HGNC:13509]	219	0.66	0.1374	4.8	1.7E-06	6.5E-06
ENSG00000255443	CD44-AS1	CD44 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:40133]	11	4.54	0.9488	4.8	1.7E-06	6.5E-06
ENSG00000260853	ENSG00000260853	novel transcript, antisense to NFATC2IP	94	0.91	0.1895	4.8	1.6E-06	6.1E-06
ENSG00000214595	EML6	EMAP like 6 [Source:HGNC Symbol;Acc:HGNC:35412]	55	1.25	0.2608	4.8	1.6E-06	6.0E-06
ENSG00000169660	HEXD	hexosaminidase D [Source:HGNC Symbol;Acc:HGNC:26307]	209	0.61	0.1269	4.8	1.6E-06	6.0E-06
ENSG00000125170	DOK4	docking protein 4 [Source:HGNC Symbol;Acc:HGNC:19868]	217	0.61	0.1265	4.8	1.6E-06	5.9E-06
ENSG00000170629	DPY19L2P2	DPY19L2 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:21764]	70	1.14	0.2373	4.8	1.6E-06	5.9E-06
ENSG00000185420	SMYD3	SET and MYND domain containing 3 [Source:HGNC Symbol;Acc:HGNC:15513]	290	0.53	0.1094	4.8	1.6E-06	5.9E-06
ENSG00000225968	ELFN1	extracellular leucine rich repeat and fibronectin type III domain containing 1 [Source:HGNC Symbol;Acc:HGNC:225968]	48	1.34	0.2793	4.8	1.5E-06	5.8E-06
ENSG00000169122	FAM110B	family with sequence similarity 110 member B [Source:HGNC Symbol;Acc:HGNC:28587]	260	0.55	0.1149	4.8	1.5E-06	5.8E-06
ENSG00000176024	ZNF613	zinc finger protein 613 [Source:HGNC Symbol;Acc:HGNC:25827]	188	0.66	0.1365	4.8	1.4E-06	5.2E-06
ENSG00000233608	TWIST2	twist family bHLH transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:20670]	14	2.90	0.5999	4.8	1.3E-06	5.0E-06
ENSG00000255150	EID3	EP300 interacting inhibitor of differentiation 3 [Source:HGNC Symbol;Acc:HGNC:32961]	29	1.78	0.3672	4.8	1.3E-06	4.9E-06
ENSG00000170085	SIMC1	SUMO interacting motifs containing 1 [Source:HGNC Symbol;Acc:HGNC:24779]	220	0.61	0.1257	4.9	1.2E-06	4.7E-06
ENSG00000148444	COMMD3	COMM domain containing 3 [Source:HGNC Symbol;Acc:HGNC:23332]	97	0.95	0.1947	4.9	1.2E-06	4.5E-06
ENSG00000163637	PRICKLE2	prickle planar cell polarity protein 2 [Source:HGNC Symbol;Acc:HGNC:20340]	156	0.74	0.1527	4.9	1.2E-06	4.5E-06
ENSG00000267060	PTGES3L	prostaglandin E synthase 3 like [Source:HGNC Symbol;Acc:HGNC:43943]	17	2.54	0.5230	4.9	1.2E-06	4.5E-06
ENSG00000228742	LINC02577	long intergenic non-protein coding RNA 2577 [Source:HGNC Symbol;Acc:HGNC:53749]	76	1.04	0.2132	4.9	1.1E-06	4.1E-06
ENSG00000116678	LEPR	leptin receptor [Source:HGNC Symbol;Acc:HGNC:6554]	53	1.33	0.2722	4.9	1.1E-06	4.1E-06
ENSG00000172345	STARD5	StAR related lipid transfer domain containing 5 [Source:HGNC Symbol;Acc:HGNC:18065]	53	1.27	0.2605	4.9	1.1E-06	4.0E-06
ENSG00000134461	ANKRD16	ankyrin repeat domain 16 [Source:HGNC Symbol;Acc:HGNC:23471]	110	0.89	0.1830	4.9	1.0E-06	4.0E-06
ENSG00000245146	MALINC1	mitosis associated long intergenic non-coding RNA 1 [Source:HGNC Symbol;Acc:HGNC:49009]	210	0.63	0.1299	4.9	1.0E-06	4.0E-06

ENSG00000177943	MAMDC4	MAM domain containing 4 [Source:HGNC Symbol;Acc:HGNC:24083]	98	0.92	0.1892	4.9	1.0E-06	3.9E-06
ENSG00000163874	ZC3H12A	zinc finger CCCH-type containing 12A [Source:HGNC Symbol;Acc:HGNC:26259]	313	0.54	0.1094	4.9	1.0E-06	3.8E-06
ENSG00000128578	STRIP2	striatin interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:22209]	272	0.54	0.1109	4.9	9.9E-07	3.8E-06
ENSG00000188868	ZNF563	zinc finger protein 563 [Source:HGNC Symbol;Acc:HGNC:30498]	42	1.57	0.3209	4.9	9.9E-07	3.8E-06
ENSG00000108474	PIGL	phosphatidylinositol glycan anchor biosynthesis class L [Source:HGNC Symbol;Acc:HGNC:8966]	295	0.62	0.1276	4.9	9.7E-07	3.7E-06
ENSG00000129911	KLF16	Kruppel like factor 16 [Source:HGNC Symbol;Acc:HGNC:16857]	287	0.58	0.1186	4.9	9.4E-07	3.6E-06
ENSG00000139625	MAP3K12	mitogen-activated protein kinase kinase kinase 12 [Source:HGNC Symbol;Acc:HGNC:6851]	165	0.71	0.1439	4.9	8.6E-07	3.3E-06
ENSG00000119509	INVS	inversin [Source:HGNC Symbol;Acc:HGNC:17870]	325	0.53	0.1083	4.9	8.3E-07	3.2E-06
ENSG00000267886	ENSG000002	novel transcript	24	2.30	0.4662	4.9	8.3E-07	3.2E-06
ENSG00000127561	SYNGR3	synaptogyrin 3 [Source:HGNC Symbol;Acc:HGNC:11501]	82	1.19	0.2406	4.9	8.2E-07	3.2E-06
ENSG00000155265	GOLGA7B	golgin A7 family member B [Source:HGNC Symbol;Acc:HGNC:31668]	47	1.45	0.2948	4.9	8.0E-07	3.1E-06
ENSG00000196220	SRGAP3	SLIT-ROBO Rho GTPase activating protein 3 [Source:HGNC Symbol;Acc:HGNC:19744]	46	1.40	0.2842	4.9	8.0E-07	3.1E-06
ENSG00000229358	DPY19L1P1	DPY19L1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:22395]	58	1.21	0.2457	4.9	7.9E-07	3.0E-06
ENSG00000133794	ARNTL	aryl hydrocarbon receptor nuclear translocator like [Source:HGNC Symbol;Acc:HGNC:701]	154	0.75	0.1520	4.9	7.8E-07	3.0E-06
ENSG00000107736	CDH23	cadherin related 23 [Source:HGNC Symbol;Acc:HGNC:13733]	150	0.75	0.1522	5.0	7.3E-07	2.8E-06
ENSG00000159788	RGS12	regulator of G protein signaling 12 [Source:HGNC Symbol;Acc:HGNC:9994]	227	0.62	0.1245	5.0	7.0E-07	2.7E-06
ENSG00000273445	ENSG000002	novel transcript	13	6.24	1.2556	5.0	6.6E-07	2.6E-06
ENSG00000150967	ABCB9	ATP binding cassette subfamily B member 9 [Source:HGNC Symbol;Acc:HGNC:50]	299	0.56	0.1117	5.0	6.1E-07	2.4E-06
ENSG00000188277	C15orf62	chromosome 15 open reading frame 62 [Source:HGNC Symbol;Acc:HGNC:34489]	50	1.37	0.2728	5.0	5.5E-07	2.2E-06
ENSG00000152464	RPP38	ribonuclease P/MRP subunit p38 [Source:HGNC Symbol;Acc:HGNC:30329]	116	0.93	0.1859	5.0	5.4E-07	2.1E-06
ENSG00000196236	XPNPEP3	X-prolyl aminopeptidase 3 [Source:HGNC Symbol;Acc:HGNC:28052]	307	0.53	0.1053	5.0	5.2E-07	2.1E-06
ENSG00000213799	ZNF845	zinc finger protein 845 [Source:HGNC Symbol;Acc:HGNC:25112]	335	0.53	0.1051	5.0	5.2E-07	2.0E-06
ENSG00000133424	LARGE1	LARGE xylosyl- and glucuronyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:6511]	59	1.22	0.2427	5.0	5.0E-07	2.0E-06
ENSG00000072195	SPEG	striated muscle enriched protein kinase [Source:HGNC Symbol;Acc:HGNC:16901]	170	0.73	0.1459	5.0	4.9E-07	1.9E-06
ENSG00000174899	SLC66A1L	solute carrier family 66 member 1 like [Source:HGNC Symbol;Acc:HGNC:25146]	64	1.17	0.2315	5.0	4.8E-07	1.9E-06
ENSG00000102878	HSF4	heat shock transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:5227]	142	0.77	0.1539	5.0	4.8E-07	1.9E-06
ENSG00000152457	DCLRE1C	DNA cross-link repair 1C [Source:HGNC Symbol;Acc:HGNC:17642]	232	0.63	0.1242	5.0	4.5E-07	1.8E-06
ENSG00000168062	BATF2	basic leucine zipper ATF-like transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:25163]	169	0.73	0.1436	5.1	4.4E-07	1.7E-06
ENSG00000079308	TNS1	tensin 1 [Source:HGNC Symbol;Acc:HGNC:11973]	158	0.75	0.1483	5.1	4.0E-07	1.6E-06
ENSG00000205456	TP53TG3D	TP53 target 3D [Source:HGNC Symbol;Acc:HGNC:44657]	16	2.97	0.5865	5.1	4.0E-07	1.6E-06
ENSG00000267147	LINC01842	long intergenic non-protein coding RNA 1842 [Source:HGNC Symbol;Acc:HGNC:52656]	57	1.26	0.2475	5.1	3.9E-07	1.6E-06
ENSG00000249740	OSMR-AS1	OSMR antisense RNA 1 (head to head) [Source:HGNC Symbol;Acc:HGNC:50296]	53	1.36	0.2687	5.1	3.9E-07	1.5E-06
ENSG00000213866	YBX1P10	Y-box binding protein 1 pseudogene 10 [Source:HGNC Symbol;Acc:HGNC:42432]	234	0.61	0.1192	5.1	3.8E-07	1.5E-06
ENSG00000228544	CCDC183-AS	CCDC183 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:44105]	67	1.20	0.2368	5.1	3.7E-07	1.5E-06
ENSG00000197646	PDCD1LG2	programmed cell death 1 ligand 2 [Source:HGNC Symbol;Acc:HGNC:18731]	67	1.18	0.2323	5.1	3.6E-07	1.4E-06
ENSG00000242992	FTH1P4	ferritin heavy chain 1 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:3991]	127	0.84	0.1654	5.1	3.5E-07	1.4E-06
ENSG00000128203	ASPHD2	aspartate beta-hydroxylase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30437]	88	1.00	0.1960	5.1	3.5E-07	1.4E-06
NA	14	NA	148	0.88	0.1731	5.1	3.3E-07	1.3E-06
ENSG00000160781	PAQR6	progesterone and adipoQ receptor family member 6 [Source:HGNC Symbol;Acc:HGNC:30132]	208	0.66	0.1300	5.1	3.3E-07	1.3E-06
ENSG00000142235	LMTK3	lemur tyrosine kinase 3 [Source:HGNC Symbol;Acc:HGNC:19295]	212	0.66	0.1287	5.1	3.1E-07	1.2E-06
ENSG00000180035	ZNF48	zinc finger protein 48 [Source:HGNC Symbol;Acc:HGNC:13114]	191	0.69	0.1342	5.1	3.1E-07	1.2E-06
ENSG00000261189	ENSG000002	novel transcript, antisense to DSP	166	0.75	0.1468	5.1	3.0E-07	1.2E-06

ENSG00000286162	ENSG000002	novel transcript	95	1.06	0.2063	5.1	3.0E-07	1.2E-06
ENSG00000197050	ZNF420	zinc finger protein 420 [Source:HGNC Symbol;Acc:HGNC:20649]	92	1.00	0.1945	5.1	2.8E-07	1.1E-06
ENSG00000171872	KLF17	Kruppel like factor 17 [Source:HGNC Symbol;Acc:HGNC:18830]	9	6.62	1.2883	5.1	2.8E-07	1.1E-06
ENSG00000112852	PCDHB2	protocadherin beta 2 [Source:HGNC Symbol;Acc:HGNC:8687]	82	1.11	0.2156	5.1	2.8E-07	1.1E-06
ENSG00000122707	RECK	reversion inducing cysteine rich protein with kazal motifs [Source:HGNC Symbol;Acc:HGNC:11345]	176	0.78	0.1519	5.1	2.6E-07	1.1E-06
ENSG00000112139	MDGA1	MAM domain containing glycosylphosphatidylinositol anchor 1 [Source:HGNC Symbol;Acc:HGNC:19267]	99	0.99	0.1918	5.2	2.6E-07	1.0E-06
ENSG00000049192	ADAMTS6	ADAM metalloproteinase with thrombospondin type 1 motif 6 [Source:HGNC Symbol;Acc:HGNC:222]	21	2.48	0.4815	5.2	2.5E-07	1.0E-06
ENSG00000272711	HK2-DT	HK2 divergent transcript [Source:HGNC Symbol;Acc:HGNC:55204]	173	0.72	0.1405	5.2	2.5E-07	1.0E-06
ENSG00000251493	FOXO1	forkhead box D1 [Source:HGNC Symbol;Acc:HGNC:3802]	251	0.67	0.1299	5.2	2.5E-07	1.0E-06
ENSG00000204956	PCDHGA1	protocadherin gamma subfamily A, 1 [Source:HGNC Symbol;Acc:HGNC:8696]	32	1.84	0.3574	5.2	2.5E-07	1.0E-06
ENSG00000155792	DEPTOR	DEP domain containing MTOR interacting protein [Source:HGNC Symbol;Acc:HGNC:22953]	23	2.26	0.4377	5.2	2.4E-07	9.6E-07
ENSG00000144230	GPR17	G protein-coupled receptor 17 [Source:HGNC Symbol;Acc:HGNC:4471]	34	1.75	0.3375	5.2	2.3E-07	9.4E-07
ENSG00000269706	ENSG000002	neurotrophin 4 (NTF4) pseudogene	17	2.89	0.5570	5.2	2.2E-07	8.9E-07
ENSG00000262188	LINC01978	long intergenic non-protein coding RNA 1978 [Source:HGNC Symbol;Acc:HGNC:52806]	9	6.73	1.2991	5.2	2.2E-07	8.9E-07
ENSG00000233406	ENSG000002	ribosomal protein S2 (RPS2) pseudogene	75	1.16	0.2227	5.2	2.1E-07	8.7E-07
ENSG00000255521	ENSG000002	novel transcript	9	6.68	1.2876	5.2	2.1E-07	8.6E-07
ENSG00000066230	SLC9A3	solute carrier family 9 member A3 [Source:HGNC Symbol;Acc:HGNC:11073]	63	1.25	0.2404	5.2	2.1E-07	8.6E-07
ENSG00000236404	VLDR-AS1	VLDR antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49621]	116	0.91	0.1753	5.2	2.1E-07	8.5E-07
ENSG00000214293	APTR	Alu-mediated CDKN1A/p21 transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:44173]	164	0.77	0.1472	5.2	2.0E-07	8.2E-07
ENSG00000184678	H2BC21	H2B clustered histone 21 [Source:HGNC Symbol;Acc:HGNC:4760]	219	0.65	0.1244	5.2	2.0E-07	8.0E-07
ENSG00000072401	UBE2D1	ubiquitin conjugating enzyme E2 D1 [Source:HGNC Symbol;Acc:HGNC:12474]	260	0.63	0.1205	5.2	1.9E-07	7.8E-07
ENSG00000124615	MOCS1	molybdenum cofactor synthesis 1 [Source:HGNC Symbol;Acc:HGNC:7190]	68	1.22	0.2334	5.2	1.9E-07	7.7E-07
ENSG00000196247	ZNF107	zinc finger protein 107 [Source:HGNC Symbol;Acc:HGNC:12887]	193	0.72	0.1390	5.2	1.9E-07	7.7E-07
ENSG00000115170	ACVR1	activin A receptor type 1 [Source:HGNC Symbol;Acc:HGNC:171]	315	0.54	0.1039	5.2	1.9E-07	7.6E-07
ENSG00000197619	ZNF615	zinc finger protein 615 [Source:HGNC Symbol;Acc:HGNC:24740]	231	0.65	0.1238	5.2	1.8E-07	7.3E-07
ENSG00000216285	ENSG000002	phosphoglycerate mutase 1 (brain) (PGAM1) pseudogene	88	1.05	0.2001	5.2	1.7E-07	7.1E-07
ENSG00000132970	WASF3	WASP family member 3 [Source:HGNC Symbol;Acc:HGNC:12734]	70	1.22	0.2328	5.2	1.7E-07	6.9E-07
ENSG00000153291	SLC25A27	solute carrier family 25 member 27 [Source:HGNC Symbol;Acc:HGNC:21065]	70	1.19	0.2267	5.2	1.6E-07	6.6E-07
ENSG00000166407	LMO1	LIM domain only 1 [Source:HGNC Symbol;Acc:HGNC:6641]	93	1.02	0.1940	5.2	1.6E-07	6.4E-07
ENSG00000224715	ENSG000002	novel transcript	9	6.73	1.2816	5.2	1.5E-07	6.3E-07
ENSG00000155592	ZKSCAN2	zinc finger with KRAB and SCAN domains 2 [Source:HGNC Symbol;Acc:HGNC:25677]	151	0.81	0.1545	5.3	1.5E-07	6.3E-07
ENSG00000196263	ZNF471	zinc finger protein 471 [Source:HGNC Symbol;Acc:HGNC:23226]	203	0.68	0.1300	5.3	1.4E-07	6.0E-07
ENSG00000269190	FBXO17	F-box protein 17 [Source:HGNC Symbol;Acc:HGNC:18754]	100	1.15	0.2186	5.3	1.4E-07	6.0E-07
ENSG00000283511	ENSG000002	novel pseudogene	24	2.21	0.4191	5.3	1.4E-07	5.8E-07
ENSG00000127946	HIP1	huntingtin interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:4913]	282	0.60	0.1142	5.3	1.4E-07	5.7E-07
ENSG00000198093	ZNF649	zinc finger protein 649 [Source:HGNC Symbol;Acc:HGNC:25741]	254	0.63	0.1189	5.3	1.4E-07	5.7E-07
ENSG00000164647	STEAP1	STEAP family member 1 [Source:HGNC Symbol;Acc:HGNC:11378]	63	1.26	0.2392	5.3	1.4E-07	5.7E-07
ENSG00000145743	FBXL17	F-box and leucine rich repeat protein 17 [Source:HGNC Symbol;Acc:HGNC:13615]	272	0.62	0.1174	5.3	1.4E-07	5.7E-07
ENSG00000229320	KRT8P12	keratin 8 pseudogene 12 [Source:HGNC Symbol;Acc:HGNC:28057]	175	0.77	0.1464	5.3	1.3E-07	5.5E-07
ENSG00000181031	RPH3AL	rabphilin 3A like (without C2 domains) [Source:HGNC Symbol;Acc:HGNC:10296]	17	2.90	0.5486	5.3	1.3E-07	5.5E-07
ENSG00000258711	ENSG000002	novel transcript	125	0.94	0.1774	5.3	1.3E-07	5.2E-07
ENSG00000227036	LINC00511	long intergenic non-protein coding RNA 511 [Source:HGNC Symbol;Acc:HGNC:43564]	313	0.56	0.1063	5.3	1.3E-07	5.2E-07

ENSG00000261115	TMEM178B	transmembrane protein 178B [Source:HGNC Symbol;Acc:HGNC:44112]	304	0.58	0.1098	5.3	1.2E-07	5.2E-07
ENSG00000121406	ZNF549	zinc finger protein 549 [Source:HGNC Symbol;Acc:HGNC:26632]	369	0.51	0.0967	5.3	1.1E-07	4.8E-07
ENSG00000146112	PPP1R18	protein phosphatase 1 regulatory subunit 18 [Source:HGNC Symbol;Acc:HGNC:29413]	169	0.81	0.1535	5.3	1.1E-07	4.8E-07
ENSG00000277496	ENSG00000277496	novel transcript, antisense to SLC04A1	40	1.64	0.3093	5.3	1.1E-07	4.6E-07
ENSG00000186204	CYP4F12	cytochrome P450 family 4 subfamily F member 12 [Source:HGNC Symbol;Acc:HGNC:18857]	278	0.58	0.1096	5.3	1.0E-07	4.3E-07
ENSG00000146054	TRIM7	tripartite motif containing 7 [Source:HGNC Symbol;Acc:HGNC:16278]	265	0.68	0.1269	5.3	1.0E-07	4.2E-07
ENSG00000169740	ZNF32	zinc finger protein 32 [Source:HGNC Symbol;Acc:HGNC:13095]	91	1.07	0.2002	5.3	9.8E-08	4.1E-07
ENSG00000205220	PSMB10	proteasome 20S subunit beta 10 [Source:HGNC Symbol;Acc:HGNC:9538]	295	0.62	0.1157	5.3	9.0E-08	3.8E-07
ENSG00000196172	ZNF681	zinc finger protein 681 [Source:HGNC Symbol;Acc:HGNC:26457]	70	1.28	0.2398	5.3	9.0E-08	3.8E-07
ENSG00000155099	PIP4P2	phosphatidylinositol-4,5-bisphosphate 4-phosphatase 2 [Source:HGNC Symbol;Acc:HGNC:25452]	88	1.06	0.1986	5.3	9.0E-08	3.8E-07
ENSG00000165630	PRPF18	pre-mRNA processing factor 18 [Source:HGNC Symbol;Acc:HGNC:17351]	109	0.99	0.1846	5.4	8.8E-08	3.7E-07
ENSG00000215712	TMEM242	transmembrane protein 242 [Source:HGNC Symbol;Acc:HGNC:17206]	190	0.76	0.1416	5.4	8.6E-08	3.6E-07
ENSG00000181007	ZFP82	ZFP82 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:28682]	177	0.76	0.1420	5.4	8.6E-08	3.6E-07
ENSG00000189190	ZNF600	zinc finger protein 600 [Source:HGNC Symbol;Acc:HGNC:30951]	391	0.51	0.0957	5.4	8.6E-08	3.6E-07
ENSG00000147697	GSDMC	gasdermin C [Source:HGNC Symbol;Acc:HGNC:7151]	154	0.86	0.1610	5.4	8.2E-08	3.5E-07
ENSG00000133195	SLC39A11	solute carrier family 39 member 11 [Source:HGNC Symbol;Acc:HGNC:14463]	300	0.58	0.1079	5.4	8.2E-08	3.5E-07
ENSG00000230836	LINC01293	long intergenic non-protein coding RNA 1293 [Source:HGNC Symbol;Acc:HGNC:50362]	36	1.74	0.3244	5.4	8.0E-08	3.4E-07
ENSG00000181619	GPR135	G protein-coupled receptor 135 [Source:HGNC Symbol;Acc:HGNC:19991]	61	1.28	0.2384	5.4	7.7E-08	3.3E-07
ENSG00000169951	ZNF764	zinc finger protein 764 [Source:HGNC Symbol;Acc:HGNC:28200]	150	0.81	0.1514	5.4	7.6E-08	3.2E-07
ENSG00000287784	ENSG00000287784	novel transcript, antisense to C3orf56	10	6.87	1.2779	5.4	7.5E-08	3.2E-07
ENSG00000100360	IFT27	intraflagellar transport 27 [Source:HGNC Symbol;Acc:HGNC:18626]	287	0.59	0.1097	5.4	7.3E-08	3.1E-07
ENSG00000225614	ZNF469	zinc finger protein 469 [Source:HGNC Symbol;Acc:HGNC:23216]	43	1.62	0.3003	5.4	7.3E-08	3.1E-07
ENSG00000273706	LHX1	LIM homeobox 1 [Source:HGNC Symbol;Acc:HGNC:6593]	19	2.80	0.5190	5.4	7.1E-08	3.0E-07
ENSG00000256087	ZNF432	zinc finger protein 432 [Source:HGNC Symbol;Acc:HGNC:20810]	227	0.65	0.1209	5.4	6.9E-08	2.9E-07
ENSG00000106100	NOD1	nucleotide binding oligomerization domain containing 1 [Source:HGNC Symbol;Acc:HGNC:16390]	324	0.55	0.1019	5.4	6.9E-08	2.9E-07
ENSG00000184058	TBX1	T-box transcription factor 1 [Source:HGNC Symbol;Acc:HGNC:11592]	52	1.47	0.2717	5.4	6.5E-08	2.8E-07
ENSG00000104361	NIPAL2	NIPA like domain containing 2 [Source:HGNC Symbol;Acc:HGNC:25854]	424	0.53	0.0978	5.4	6.1E-08	2.6E-07
ENSG00000158406	H4C8	H4 clustered histone 8 [Source:HGNC Symbol;Acc:HGNC:4788]	127	0.88	0.1631	5.4	6.0E-08	2.6E-07
ENSG00000119661	DNAL1	dynein axonemal light chain 1 [Source:HGNC Symbol;Acc:HGNC:23247]	325	0.56	0.1025	5.4	5.7E-08	2.4E-07
ENSG00000159263	SIM2	SIM bHLH transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:10883]	170	0.76	0.1398	5.4	5.1E-08	2.2E-07
ENSG00000178764	ZHX2	zinc fingers and homeoboxes 2 [Source:HGNC Symbol;Acc:HGNC:18513]	150	0.92	0.1681	5.4	5.1E-08	2.2E-07
ENSG00000113319	RASGRF2	Ras protein specific guanine nucleotide releasing factor 2 [Source:HGNC Symbol;Acc:HGNC:9876]	61	1.30	0.2386	5.5	4.9E-08	2.1E-07
ENSG00000203814	H2BC18	H2B clustered histone 18 [Source:HGNC Symbol;Acc:HGNC:24700]	63	1.29	0.2372	5.5	4.8E-08	2.1E-07
ENSG00000149922	TBX6	T-box transcription factor 6 [Source:HGNC Symbol;Acc:HGNC:11605]	32	1.95	0.3574	5.5	4.8E-08	2.1E-07
ENSG00000185869	ZNF829	zinc finger protein 829 [Source:HGNC Symbol;Acc:HGNC:34032]	160	0.80	0.1466	5.5	4.5E-08	1.9E-07
ENSG00000250486	FAM218A	family with sequence similarity 218 member A [Source:HGNC Symbol;Acc:HGNC:26466]	26	2.24	0.4096	5.5	4.5E-08	1.9E-07
ENSG00000130830	MPP1	membrane palmitoylated protein 1 [Source:HGNC Symbol;Acc:HGNC:7219]	185	0.75	0.1370	5.5	4.4E-08	1.9E-07
ENSG00000111647	UHRF1BP1L	UHRF1 binding protein 1 like [Source:HGNC Symbol;Acc:HGNC:29102]	354	0.55	0.1001	5.5	3.9E-08	1.7E-07
ENSG00000120093	HOXB3	homeobox B3 [Source:HGNC Symbol;Acc:HGNC:5114]	196	0.74	0.1354	5.5	3.9E-08	1.7E-07
ENSG00000105717	PBX4	PBX homeobox 4 [Source:HGNC Symbol;Acc:HGNC:13403]	193	0.75	0.1359	5.5	3.8E-08	1.6E-07
ENSG00000287331	ENSG00000287331	novel transcript	16	5.06	0.9191	5.5	3.7E-08	1.6E-07
ENSG00000287222	ENSG00000287222	novel transcript, antisense to PUF60	186	0.75	0.1356	5.5	3.7E-08	1.6E-07

ENSG00000156510	HKDC1	hexokinase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23302]	84	1.13	0.2050	5.5	3.1E-08	1.4E-07
ENSG00000050555	LAMC3	laminin subunit gamma 3 [Source:HGNC Symbol;Acc:HGNC:6494]	42	1.66	0.2990	5.6	2.8E-08	1.2E-07
ENSG00000139725	RHOF	ras homolog family member F, filopodia associated [Source:HGNC Symbol;Acc:HGNC:15703]	210	0.74	0.1337	5.6	2.7E-08	1.2E-07
ENSG00000213015	ZNF580	zinc finger protein 580 [Source:HGNC Symbol;Acc:HGNC:29473]	338	0.59	0.1054	5.6	2.7E-08	1.2E-07
ENSG00000133863	TEX15	testis expressed 15, meiosis and synapsis associated [Source:HGNC Symbol;Acc:HGNC:11738]	132	0.91	0.1634	5.6	2.7E-08	1.2E-07
ENSG00000135766	EGLN1	egl-9 family hypoxia inducible factor 1 [Source:HGNC Symbol;Acc:HGNC:1232]	167	0.91	0.1640	5.6	2.5E-08	1.1E-07
ENSG00000130829	DUSP9	dual specificity phosphatase 9 [Source:HGNC Symbol;Acc:HGNC:3076]	51	1.50	0.2696	5.6	2.4E-08	1.1E-07
ENSG00000113356	POLR3G	RNA polymerase III subunit G [Source:HGNC Symbol;Acc:HGNC:30075]	307	0.59	0.1049	5.6	2.4E-08	1.1E-07
ENSG00000103343	ZNF174	zinc finger protein 174 [Source:HGNC Symbol;Acc:HGNC:12963]	130	0.99	0.1769	5.6	2.4E-08	1.0E-07
ENSG00000205609	EIF3CL	eukaryotic translation initiation factor 3 subunit C like [Source:HGNC Symbol;Acc:HGNC:26347]	177	0.80	0.1433	5.6	2.2E-08	9.9E-08
ENSG00000103489	XYLT1	xylosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:15516]	190	0.74	0.1327	5.6	2.1E-08	9.4E-08
ENSG00000130962	PRRG1	proline rich and Gla domain 1 [Source:HGNC Symbol;Acc:HGNC:9469]	341	0.57	0.1010	5.6	2.1E-08	9.3E-08
ENSG00000081818	PCDH4	protocadherin beta 4 [Source:HGNC Symbol;Acc:HGNC:8689]	18	3.08	0.5497	5.6	2.1E-08	9.2E-08
ENSG00000206190	ATP10A	ATPase phospholipid transporting 10A (putative) [Source:HGNC Symbol;Acc:HGNC:13542]	246	0.69	0.1224	5.6	2.1E-08	9.2E-08
ENSG00000126603	GLIS2	GLIS family zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:29450]	105	1.04	0.1852	5.6	2.0E-08	8.8E-08
ENSG00000249102	ENSG00000249102	novel transcript	12	7.07	1.2602	5.6	2.0E-08	8.8E-08
ENSG00000221821	C6orf226	chromosome 6 open reading frame 226 [Source:HGNC Symbol;Acc:HGNC:34431]	161	0.83	0.1480	5.6	2.0E-08	8.8E-08
ENSG00000265763	ZNF488	zinc finger protein 488 [Source:HGNC Symbol;Acc:HGNC:23535]	240	0.70	0.1241	5.6	2.0E-08	8.8E-08
ENSG00000279249	ENSG00000279249	novel transcript, antisense to CBLN1	47	1.57	0.2797	5.6	1.9E-08	8.7E-08
ENSG00000226608	FTLP3	ferritin light chain pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:4000]	126	0.94	0.1673	5.6	1.9E-08	8.5E-08
ENSG00000272767	JMJD1C-AS1	JMJD1C antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:28222]	40	1.80	0.3190	5.6	1.8E-08	7.9E-08
ENSG00000197208	SLC22A4	solute carrier family 22 member 4 [Source:HGNC Symbol;Acc:HGNC:10968]	74	1.30	0.2315	5.6	1.7E-08	7.7E-08
ENSG00000103199	ZNF500	zinc finger protein 500 [Source:HGNC Symbol;Acc:HGNC:23716]	191	0.77	0.1360	5.6	1.7E-08	7.7E-08
ENSG00000122008	POLK	DNA polymerase kappa [Source:HGNC Symbol;Acc:HGNC:9183]	210	0.73	0.1290	5.6	1.7E-08	7.6E-08
ENSG00000170684	ZNF296	zinc finger protein 296 [Source:HGNC Symbol;Acc:HGNC:15981]	196	0.74	0.1302	5.6	1.6E-08	7.3E-08
ENSG00000095752	IL11	interleukin 11 [Source:HGNC Symbol;Acc:HGNC:5966]	111	1.12	0.1975	5.6	1.6E-08	7.3E-08
ENSG00000176597	B3GNT5	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:15648]	395	0.54	0.0948	5.6	1.6E-08	7.2E-08
ENSG00000248383	PCDHAC1	protocadherin alpha subfamily C, 1 [Source:HGNC Symbol;Acc:HGNC:8676]	101	1.13	0.2002	5.7	1.5E-08	6.9E-08
ENSG00000199568	RNU5A-1	RNA, USA small nuclear 1 [Source:HGNC Symbol;Acc:HGNC:10211]	43	1.88	0.3326	5.7	1.5E-08	6.8E-08
ENSG00000185070	FLRT2	fibronectin leucine rich transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:3761]	389	0.57	0.1011	5.7	1.4E-08	6.4E-08
ENSG00000144908	ALDH1L1	aldehyde dehydrogenase 1 family member L1 [Source:HGNC Symbol;Acc:HGNC:3978]	35	2.02	0.3555	5.7	1.3E-08	6.0E-08
ENSG00000223784	LINP1	lncRNA in non-homologous end joining pathway 1 [Source:HGNC Symbol;Acc:HGNC:53170]	78	1.25	0.2209	5.7	1.3E-08	6.0E-08
ENSG00000125458	NT5C	5', 3'-nucleotidase, cytosolic [Source:HGNC Symbol;Acc:HGNC:17144]	183	0.78	0.1367	5.7	1.3E-08	5.8E-08
ENSG00000143702	CEP170	centrosomal protein 170 [Source:HGNC Symbol;Acc:HGNC:28920]	184	0.78	0.1361	5.7	1.2E-08	5.3E-08
ENSG00000260018	ENSG00000260018	novel transcript, antisense to MBTPS1	36	1.93	0.3380	5.7	1.1E-08	5.2E-08
ENSG00000186854	TRABD2A	TraB domain containing 2A [Source:HGNC Symbol;Acc:HGNC:27013]	45	1.67	0.2929	5.7	1.1E-08	5.1E-08
ENSG00000228649	SNHG26	small nucleolar RNA host gene 26 [Source:HGNC Symbol;Acc:HGNC:53131]	221	0.72	0.1262	5.7	1.1E-08	5.0E-08
ENSG00000116774	OLFML3	olfactomedin like 3 [Source:HGNC Symbol;Acc:HGNC:24956]	43	1.77	0.3088	5.7	1.0E-08	4.6E-08
ENSG00000205060	SLC35B4	solute carrier family 35 member B4 [Source:HGNC Symbol;Acc:HGNC:20584]	220	0.71	0.1240	5.7	1.0E-08	4.5E-08
ENSG00000188785	ZNF548	zinc finger protein 548 [Source:HGNC Symbol;Acc:HGNC:26561]	342	0.61	0.1068	5.7	9.6E-09	4.3E-08
ENSG00000160221	GATD3A	glutamine amidotransferase like class 1 domain containing 3A [Source:HGNC Symbol;Acc:HGNC:1273]	489	0.51	0.0885	5.7	9.5E-09	4.3E-08
ENSG00000277075	H2AC8	H2A clustered histone 8 [Source:HGNC Symbol;Acc:HGNC:4724]	85	1.17	0.2041	5.7	9.3E-09	4.2E-08

ENSG00000213988	ZNF90	zinc finger protein 90 [Source:HGNC Symbol;Acc:HGNC:13165]	49	1.64	0.2848	5.7	8.9E-09	4.1E-08
ENSG00000198053	SIRPA	signal regulatory protein alpha [Source:HGNC Symbol;Acc:HGNC:9662]	237	0.74	0.1289	5.8	8.3E-09	3.8E-08
ENSG00000168917	SLC35G2	solute carrier family 35 member G2 [Source:HGNC Symbol;Acc:HGNC:28480]	83	1.31	0.2277	5.8	8.1E-09	3.7E-08
ENSG00000186687	LYRM7	LYR motif containing 7 [Source:HGNC Symbol;Acc:HGNC:28072]	461	0.53	0.0920	5.8	7.8E-09	3.6E-08
ENSG00000113522	RAD50	RAD50 double strand break repair protein [Source:HGNC Symbol;Acc:HGNC:9816]	137	1.03	0.1779	5.8	7.8E-09	3.6E-08
ENSG00000198934	MAGEE1	MAGE family member E1 [Source:HGNC Symbol;Acc:HGNC:24934]	97	1.20	0.2084	5.8	7.7E-09	3.5E-08
ENSG00000280832	GSEC	G-quadruplex forming sequence containing lncRNA [Source:HGNC Symbol;Acc:HGNC:48645]	131	1.02	0.1764	5.8	7.4E-09	3.4E-08
ENSG00000218582	GAPDHP63	glyceraldehyde 3 phosphate dehydrogenase pseudogene 63 [Source:HGNC Symbol;Acc:HGNC:4157]	130	0.94	0.1618	5.8	7.3E-09	3.3E-08
ENSG00000115392	FANCL	FA complementation group L [Source:HGNC Symbol;Acc:HGNC:20748]	448	0.51	0.0883	5.8	7.1E-09	3.2E-08
ENSG00000225953	SATB2-AS1	SATB2 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:26490]	41	1.84	0.3180	5.8	6.7E-09	3.1E-08
ENSG00000130813	SHFL	shiftless antiviral inhibitor of ribosomal frameshifting [Source:HGNC Symbol;Acc:HGNC:25649]	401	0.56	0.0968	5.8	6.6E-09	3.1E-08
ENSG00000070371	CLTCL1	clathrin heavy chain like 1 [Source:HGNC Symbol;Acc:HGNC:2093]	156	0.86	0.1489	5.8	6.5E-09	3.0E-08
ENSG00000148848	ADAM12	ADAM metallopeptidase domain 12 [Source:HGNC Symbol;Acc:HGNC:190]	31	2.14	0.3683	5.8	6.4E-09	2.9E-08
ENSG00000141655	TNFRSF11A	TNF receptor superfamily member 11a [Source:HGNC Symbol;Acc:HGNC:11908]	90	1.16	0.2004	5.8	6.3E-09	2.9E-08
ENSG00000197562	RAB40C	RAB40C, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:18285]	426	0.55	0.0939	5.8	6.2E-09	2.9E-08
ENSG00000064195	DLX3	distal-less homeobox 3 [Source:HGNC Symbol;Acc:HGNC:2916]	353	0.58	0.0993	5.8	5.8E-09	2.7E-08
ENSG00000196581	AJAP1	adherens junctions associated protein 1 [Source:HGNC Symbol;Acc:HGNC:30801]	344	0.60	0.1034	5.8	5.5E-09	2.5E-08
ENSG00000128594	LRRC4	leucine rich repeat containing 4 [Source:HGNC Symbol;Acc:HGNC:15586]	28	2.29	0.3927	5.8	5.5E-09	2.5E-08
ENSG00000227051	C14orf132	chromosome 14 open reading frame 132 [Source:HGNC Symbol;Acc:HGNC:20346]	62	1.46	0.2501	5.8	5.0E-09	2.3E-08
ENSG00000111700	SLCO1B3	solute carrier organic anion transporter family member 1B3 [Source:HGNC Symbol;Acc:HGNC:10961]	18	3.47	0.5931	5.9	4.9E-09	2.3E-08
ENSG00000168297	PXK	PX domain containing serine/threonine kinase like [Source:HGNC Symbol;Acc:HGNC:23326]	191	0.79	0.1343	5.9	4.8E-09	2.2E-08
ENSG00000138378	STAT4	signal transducer and activator of transcription 4 [Source:HGNC Symbol;Acc:HGNC:11365]	56	1.53	0.2611	5.9	4.7E-09	2.2E-08
ENSG00000173542	MOB1B	MOB kinase activator 1B [Source:HGNC Symbol;Acc:HGNC:29801]	463	0.51	0.0878	5.9	4.6E-09	2.2E-08
ENSG00000254842	LINC02551	long intergenic non-protein coding RNA 2551 [Source:HGNC Symbol;Acc:HGNC:53586]	89	1.20	0.2054	5.9	4.5E-09	2.1E-08
ENSG00000179456	ZBTB18	zinc finger and BTB domain containing 18 [Source:HGNC Symbol;Acc:HGNC:13030]	509	0.52	0.0881	5.9	4.4E-09	2.0E-08
ENSG00000166920	C15orf48	chromosome 15 open reading frame 48 [Source:HGNC Symbol;Acc:HGNC:29898]	327	0.65	0.1099	5.9	4.3E-09	2.0E-08
ENSG00000137502	RAB30	RAB30, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9770]	188	0.80	0.1356	5.9	3.7E-09	1.8E-08
ENSG00000162004	CCDC78	coiled-coil domain containing 78 [Source:HGNC Symbol;Acc:HGNC:14153]	50	1.68	0.2841	5.9	3.7E-09	1.7E-08
ENSG00000233184	ENSG00000233184	novel transcript	61	1.43	0.2431	5.9	3.7E-09	1.7E-08
ENSG00000213030	CGB8	chorionic gonadotropin subunit beta 8 [Source:HGNC Symbol;Acc:HGNC:16453]	20	3.14	0.5309	5.9	3.5E-09	1.6E-08
ENSG00000259341	ENSG00000259341	novel transcript	21	2.96	0.5011	5.9	3.4E-09	1.6E-08
ENSG00000280604	ENSG00000280604	PCBP3 overlapping transcript 1	17	4.11	0.6952	5.9	3.4E-09	1.6E-08
ENSG00000233328	PFN1P1	profilin 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:42989]	260	0.68	0.1144	5.9	3.3E-09	1.6E-08
ENSG00000143469	SYT14	synaptotagmin 14 [Source:HGNC Symbol;Acc:HGNC:23143]	38	1.91	0.3224	5.9	3.3E-09	1.5E-08
ENSG00000067113	PLPP1	phospholipid phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:9228]	252	0.70	0.1180	5.9	3.2E-09	1.5E-08
ENSG00000151917	BEND6	BEN domain containing 6 [Source:HGNC Symbol;Acc:HGNC:20871]	33	2.12	0.3577	5.9	3.0E-09	1.4E-08
ENSG00000085999	RAD54L	RAD54 like [Source:HGNC Symbol;Acc:HGNC:9826]	348	0.61	0.1020	5.9	2.8E-09	1.3E-08
ENSG00000212719	LINC02693	long intergenic non-protein coding RNA 2693 [Source:HGNC Symbol;Acc:HGNC:27904]	249	0.71	0.1194	6.0	2.6E-09	1.2E-08
ENSG00000204179	PTPN20	protein tyrosine phosphatase non-receptor type 20 [Source:HGNC Symbol;Acc:HGNC:23423]	165	0.88	0.1479	6.0	2.6E-09	1.2E-08
ENSG00000167554	ZNF610	zinc finger protein 610 [Source:HGNC Symbol;Acc:HGNC:26687]	47	1.74	0.2923	6.0	2.5E-09	1.2E-08
ENSG00000135740	SLC9A5	solute carrier family 9 member A5 [Source:HGNC Symbol;Acc:HGNC:11078]	176	0.88	0.1471	6.0	2.5E-09	1.2E-08
ENSG00000166669	ATF7IP2	activating transcription factor 7 interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:20397]	184	0.87	0.1456	6.0	2.4E-09	1.1E-08

ENSG00000124302	CHST8	carbohydrate sulfotransferase 8 [Source:HGNC Symbol;Acc:HGNC:15993]	43	1.82	0.3050	6.0	2.4E-09	1.1E-08
ENSG00000164542	KIAA0895	KIAA0895 [Source:HGNC Symbol;Acc:HGNC:22206]	318	0.62	0.1046	6.0	2.3E-09	1.1E-08
ENSG00000152454	ZNF256	zinc finger protein 256 [Source:HGNC Symbol;Acc:HGNC:13049]	284	0.69	0.1146	6.0	2.2E-09	1.0E-08
ENSG00000104689	TNFRSF10A	TNF receptor superfamily member 10a [Source:HGNC Symbol;Acc:HGNC:11904]	239	0.72	0.1198	6.0	2.1E-09	1.0E-08
ENSG00000182362	YBEY	yeY metalloendonuclease [Source:HGNC Symbol;Acc:HGNC:1299]	411	0.56	0.0934	6.0	2.1E-09	9.8E-09
ENSG00000186318	BACE1	beta-secretase 1 [Source:HGNC Symbol;Acc:HGNC:933]	138	0.95	0.1581	6.0	2.0E-09	9.7E-09
ENSG00000273802	H2BC8	H2B clustered histone 8 [Source:HGNC Symbol;Acc:HGNC:4746]	161	0.91	0.1519	6.0	2.0E-09	9.6E-09
ENSG00000164180	TMEM161B	transmembrane protein 161B [Source:HGNC Symbol;Acc:HGNC:28483]	550	0.51	0.0855	6.0	2.0E-09	9.5E-09
ENSG00000224861	YBX1P1	Y-box binding protein 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:8015]	399	0.56	0.0926	6.0	1.9E-09	9.0E-09
ENSG00000133315	MACROD1	mono-ADP ribosylhydrolase 1 [Source:HGNC Symbol;Acc:HGNC:29598]	550	0.51	0.0843	6.0	1.8E-09	8.8E-09
ENSG00000124134	KCNS1	potassium voltage-gated channel modifier subfamily S member 1 [Source:HGNC Symbol;Acc:HGNC:630]	197	0.86	0.1431	6.0	1.8E-09	8.5E-09
ENSG00000261971	MMP25-AS1	MMP25 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:51372]	68	1.41	0.2336	6.0	1.7E-09	8.3E-09
ENSG00000166831	RBPMS2	RNA binding protein, mRNA processing factor 2 [Source:HGNC Symbol;Acc:HGNC:19098]	241	0.72	0.1192	6.0	1.7E-09	8.2E-09
ENSG00000196935	SRGAP1	SLIT-ROBO Rho GTPase activating protein 1 [Source:HGNC Symbol;Acc:HGNC:17382]	481	0.55	0.0907	6.0	1.6E-09	7.9E-09
ENSG00000138399	FASTKD1	FAST kinase domains 1 [Source:HGNC Symbol;Acc:HGNC:26150]	288	0.67	0.1112	6.0	1.6E-09	7.9E-09
ENSG00000105472	CLEC11A	C-type lectin domain containing 11A [Source:HGNC Symbol;Acc:HGNC:10576]	174	0.85	0.1407	6.0	1.6E-09	7.6E-09
ENSG00000107295	SH3GL2	SH3 domain containing GRB2 like 2, endophilin A1 [Source:HGNC Symbol;Acc:HGNC:10831]	67	1.39	0.2302	6.0	1.5E-09	7.4E-09
ENSG00000177666	PNPLA2	patatin like phospholipase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30802]	575	0.56	0.0929	6.0	1.5E-09	7.3E-09
ENSG00000144278	GALNT13	polypeptide N-acetylgalactosaminyltransferase 13 [Source:HGNC Symbol;Acc:HGNC:23242]	44	1.81	0.2987	6.0	1.5E-09	7.3E-09
ENSG00000211448	DIO2	iodothyronine deiodinase 2 [Source:HGNC Symbol;Acc:HGNC:2884]	138	0.96	0.1583	6.0	1.5E-09	7.0E-09
ENSG00000131652	THOC6	THO complex 6 [Source:HGNC Symbol;Acc:HGNC:28369]	389	0.60	0.0993	6.1	1.4E-09	6.8E-09
ENSG00000253537	PCDHGA7	protocadherin gamma subfamily A, 7 [Source:HGNC Symbol;Acc:HGNC:8705]	141	0.96	0.1592	6.1	1.4E-09	6.7E-09
ENSG00000205002	AARD	alanine and arginine rich domain containing protein [Source:HGNC Symbol;Acc:HGNC:33842]	528	0.52	0.0850	6.1	1.4E-09	6.6E-09
ENSG00000151388	ADAMTS12	ADAM metallopeptidase with thrombospondin type 1 motif 12 [Source:HGNC Symbol;Acc:HGNC:14605]	116	1.20	0.1975	6.1	1.4E-09	6.5E-09
ENSG00000135541	AHI1	Abelson helper integration site 1 [Source:HGNC Symbol;Acc:HGNC:21575]	233	0.81	0.1335	6.1	1.3E-09	6.5E-09
ENSG00000122386	ZNF205	zinc finger protein 205 [Source:HGNC Symbol;Acc:HGNC:12996]	158	0.91	0.1491	6.1	1.3E-09	6.2E-09
ENSG00000116761	CTH	cystathionine gamma-lyase [Source:HGNC Symbol;Acc:HGNC:2501]	48	1.74	0.2869	6.1	1.2E-09	6.0E-09
ENSG00000197497	ZNF665	zinc finger protein 665 [Source:HGNC Symbol;Acc:HGNC:25885]	59	1.53	0.2518	6.1	1.1E-09	5.5E-09
ENSG00000253304	TMEM200B	transmembrane protein 200B [Source:HGNC Symbol;Acc:HGNC:33785]	486	0.56	0.0920	6.1	1.1E-09	5.4E-09
ENSG00000250920	ENSG00000250920	novel transcript	22	5.52	0.9054	6.1	1.1E-09	5.4E-09
ENSG00000250251	PKD1P6	polycystin 1, transient receptor potential channel interacting pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:25025]	164	0.90	0.1479	6.1	1.1E-09	5.4E-09
ENSG00000224848	ENSG00000224848	novel transcript	58	1.56	0.2552	6.1	1.1E-09	5.2E-09
ENSG00000215154	ENSG00000215154	potassium channel tetramerisation domain containing 5 (KCTD5) pseudogene	108	1.14	0.1867	6.1	1.1E-09	5.1E-09
ENSG00000247516	MIR4458HG	MIR4458 host gene [Source:HGNC Symbol;Acc:HGNC:49008]	409	0.56	0.0925	6.1	1.0E-09	5.0E-09
ENSG00000165731	RET	ret proto-oncogene [Source:HGNC Symbol;Acc:HGNC:9967]	68	1.40	0.2297	6.1	9.9E-10	4.8E-09
ENSG00000165312	OTUD1	OTU deubiquitinase 1 [Source:HGNC Symbol;Acc:HGNC:27346]	335	0.76	0.1250	6.1	9.6E-10	4.7E-09
ENSG00000229160	ENSG00000229160	novel transcript	58	1.62	0.2648	6.1	9.0E-10	4.4E-09
ENSG00000260219	CD2BP2-DT	CD2BP2 divergent transcript [Source:HGNC Symbol;Acc:HGNC:53029]	40	1.94	0.3167	6.1	8.9E-10	4.4E-09
ENSG00000172123	SLFN12	schlafen family member 12 [Source:HGNC Symbol;Acc:HGNC:25500]	522	0.51	0.0828	6.1	8.9E-10	4.4E-09
ENSG00000152413	HOMER1	homer scaffold protein 1 [Source:HGNC Symbol;Acc:HGNC:17512]	469	0.57	0.0929	6.1	8.7E-10	4.3E-09
ENSG00000137561	TTPA	alpha tocopherol transfer protein [Source:HGNC Symbol;Acc:HGNC:12404]	23	3.09	0.5036	6.1	8.5E-10	4.2E-09
ENSG00000130477	UNC13A	unc-13 homolog A [Source:HGNC Symbol;Acc:HGNC:23150]	408	0.57	0.0935	6.1	7.9E-10	3.9E-09

ENSG00000185684	EP400P1	EP400 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:26602]	246	0.75	0.1221	6.1	7.9E-10	3.9E-09
ENSG00000151657	KIN	Kin17 DNA and RNA binding protein [Source:HGNC Symbol;Acc:HGNC:6327]	280	0.71	0.1152	6.2	7.4E-10	3.7E-09
ENSG00000054938	CHRDL2	chordin like 2 [Source:HGNC Symbol;Acc:HGNC:24168]	20	3.72	0.6030	6.2	7.2E-10	3.5E-09
ENSG00000241058	NSUN6	NOP2/Sun RNA methyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:23529]	119	1.04	0.1688	6.2	6.3E-10	3.1E-09
ENSG00000161298	ZNF382	zinc finger protein 382 [Source:HGNC Symbol;Acc:HGNC:17409]	77	1.33	0.2158	6.2	6.3E-10	3.1E-09
ENSG00000173237	C11orf86	chromosome 11 open reading frame 86 [Source:HGNC Symbol;Acc:HGNC:34442]	31	7.50	1.2116	6.2	6.1E-10	3.0E-09
ENSG00000176476	SGF29	SAGA complex associated factor 29 [Source:HGNC Symbol;Acc:HGNC:25156]	175	0.91	0.1477	6.2	6.1E-10	3.0E-09
ENSG00000232533	ENSG00000232533	novel transcript	149	0.94	0.1510	6.2	5.8E-10	2.9E-09
ENSG00000157657	ZNF618	zinc finger protein 618 [Source:HGNC Symbol;Acc:HGNC:29416]	579	0.53	0.0854	6.2	5.7E-10	2.8E-09
ENSG00000269001	ENSG00000269001	zinc finger protein 818, pseudogene	167	0.94	0.1510	6.2	5.5E-10	2.7E-09
ENSG00000147655	RSPO2	R-spondin 2 [Source:HGNC Symbol;Acc:HGNC:28583]	51	1.73	0.2785	6.2	5.2E-10	2.6E-09
ENSG00000224259	LINC01133	long intergenic non-protein coding RNA 1133 [Source:HGNC Symbol;Acc:HGNC:49447]	110	1.16	0.1871	6.2	5.2E-10	2.6E-09
ENSG00000197857	ZNF44	zinc finger protein 44 [Source:HGNC Symbol;Acc:HGNC:13110]	181	0.87	0.1393	6.2	5.1E-10	2.5E-09
ENSG00000182986	ZNF320	zinc finger protein 320 [Source:HGNC Symbol;Acc:HGNC:13842]	113	1.14	0.1822	6.2	4.6E-10	2.3E-09
ENSG00000078725	BRINP1	BMP/retinoic acid inducible neural specific 1 [Source:HGNC Symbol;Acc:HGNC:2687]	18	7.69	1.2347	6.2	4.6E-10	2.3E-09
ENSG00000263155	MYZAP	myocardial zonula adherens protein [Source:HGNC Symbol;Acc:HGNC:43444]	24	2.99	0.4782	6.2	4.2E-10	2.1E-09
ENSG00000197165	SULT1A2	sulfotransferase family 1A member 2 [Source:HGNC Symbol;Acc:HGNC:11454]	19	3.84	0.6154	6.2	4.2E-10	2.1E-09
ENSG00000184304	PRKD1	protein kinase D1 [Source:HGNC Symbol;Acc:HGNC:9407]	34	2.23	0.3559	6.3	3.9E-10	2.0E-09
ENSG00000261804	ENSG00000261804	novel transcript	20	4.30	0.6875	6.3	3.9E-10	2.0E-09
ENSG00000169627	BOLA2B	bolA family member 2B [Source:HGNC Symbol;Acc:HGNC:32479]	65	1.50	0.2397	6.3	3.9E-10	2.0E-09
ENSG00000242960	FTH1P23	ferritin heavy chain 1 pseudogene 23 [Source:HGNC Symbol;Acc:HGNC:37641]	242	0.76	0.1222	6.3	3.9E-10	1.9E-09
ENSG00000173068	BNC2	basonuclin 2 [Source:HGNC Symbol;Acc:HGNC:30988]	23	2.97	0.4744	6.3	3.6E-10	1.8E-09
ENSG00000130818	ZNF426	zinc finger protein 426 [Source:HGNC Symbol;Acc:HGNC:20725]	351	0.64	0.1019	6.3	3.6E-10	1.8E-09
ENSG00000144810	COL8A1	collagen type VIII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2215]	61	1.58	0.2518	6.3	3.5E-10	1.8E-09
ENSG00000165626	BEND7	BEN domain containing 7 [Source:HGNC Symbol;Acc:HGNC:23514]	110	1.13	0.1804	6.3	3.4E-10	1.7E-09
ENSG00000131669	NINJ1	ninjurin 1 [Source:HGNC Symbol;Acc:HGNC:7824]	441	0.56	0.0890	6.3	3.2E-10	1.6E-09
ENSG0000018236	CNTN1	contactin 1 [Source:HGNC Symbol;Acc:HGNC:2171]	27	2.70	0.4296	6.3	3.1E-10	1.6E-09
ENSG00000146094	DOK3	docking protein 3 [Source:HGNC Symbol;Acc:HGNC:24583]	97	1.24	0.1974	6.3	3.1E-10	1.6E-09
ENSG00000176046	NUPR1	nuclear protein 1, transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:29990]	336	1.25	0.1985	6.3	2.9E-10	1.5E-09
ENSG00000099385	BCL7C	BAF chromatin remodeling complex subunit BCL7C [Source:HGNC Symbol;Acc:HGNC:1006]	294	0.69	0.1090	6.3	2.8E-10	1.4E-09
ENSG00000235587	GAPDHP65	glyceraldehyde 3 phosphate dehydrogenase pseudogene 65 [Source:HGNC Symbol;Acc:HGNC:4143]	226	0.79	0.1248	6.3	2.7E-10	1.4E-09
ENSG00000141252	VPS53	VPS53 subunit of GARP complex [Source:HGNC Symbol;Acc:HGNC:25608]	421	0.60	0.0952	6.3	2.3E-10	1.2E-09
ENSG00000073849	ST6GAL1	ST6 beta-galactoside alpha-2,6-sialyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:10860]	73	1.45	0.2283	6.3	2.3E-10	1.2E-09
ENSG00000204611	ZNF616	zinc finger protein 616 [Source:HGNC Symbol;Acc:HGNC:28062]	162	0.96	0.1506	6.3	2.3E-10	1.2E-09
ENSG00000155974	GRIP1	glutamate receptor interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:18708]	103	1.25	0.1963	6.3	2.2E-10	1.1E-09
ENSG00000145214	DGKQ	diacylglycerol kinase theta [Source:HGNC Symbol;Acc:HGNC:2856]	398	0.63	0.0988	6.3	2.2E-10	1.1E-09
ENSG00000103495	MAZ	MYC associated zinc finger protein [Source:HGNC Symbol;Acc:HGNC:6914]	296	0.81	0.1269	6.3	2.2E-10	1.1E-09
ENSG00000163485	ADORA1	adenosine A1 receptor [Source:HGNC Symbol;Acc:HGNC:262]	126	1.05	0.1660	6.4	2.1E-10	1.1E-09
ENSG00000081665	ZNF506	zinc finger protein 506 [Source:HGNC Symbol;Acc:HGNC:23780]	53	1.74	0.2739	6.4	1.9E-10	9.8E-10
ENSG00000170954	ZNF415	zinc finger protein 415 [Source:HGNC Symbol;Acc:HGNC:20636]	182	0.93	0.1456	6.4	1.8E-10	9.3E-10
ENSG00000100036	SLC35E4	solute carrier family 35 member E4 [Source:HGNC Symbol;Acc:HGNC:17058]	154	1.01	0.1577	6.4	1.7E-10	8.7E-10
ENSG00000197013	ZNF429	zinc finger protein 429 [Source:HGNC Symbol;Acc:HGNC:20817]	81	1.43	0.2231	6.4	1.6E-10	8.4E-10

ENSG00000174206	C12orf66	chromosome 12 open reading frame 66 [Source:HGNC Symbol;Acc:HGNC:26517]	130	1.07	0.1669	6.4	1.5E-10	7.9E-10
ENSG00000107159	CA9	carbonic anhydrase 9 [Source:HGNC Symbol;Acc:HGNC:1383]	38	2.23	0.3482	6.4	1.5E-10	7.6E-10
ENSG00000072954	TMEM38A	transmembrane protein 38A [Source:HGNC Symbol;Acc:HGNC:28462]	376	0.63	0.0989	6.4	1.4E-10	7.3E-10
ENSG00000138207	RBP4	retinol binding protein 4 [Source:HGNC Symbol;Acc:HGNC:9922]	31	2.45	0.3814	6.4	1.3E-10	6.8E-10
ENSG00000236751	LINC01186	long intergenic non-protein coding RNA 1186 [Source:HGNC Symbol;Acc:HGNC:49573]	110	1.16	0.1808	6.4	1.2E-10	6.4E-10
ENSG00000276386	CNTNAP3P2	CNTNAP3 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:49589]	21	3.94	0.6116	6.4	1.2E-10	6.3E-10
ENSG00000150995	ITPR1	inositol 1,4,5-trisphosphate receptor type 1 [Source:HGNC Symbol;Acc:HGNC:6180]	128	1.05	0.1635	6.4	1.2E-10	6.3E-10
ENSG00000204540	PSORS1C1	psoriasis susceptibility 1 candidate 1 [Source:HGNC Symbol;Acc:HGNC:17202]	47	1.86	0.2889	6.4	1.2E-10	6.2E-10
ENSG00000236753	MKLN1-AS	MKLN1 antisense RNA [Source:HGNC Symbol;Acc:HGNC:40374]	87	1.39	0.2157	6.4	1.2E-10	6.1E-10
ENSG00000047617	ANO2	anoctamin 2 [Source:HGNC Symbol;Acc:HGNC:1183]	74	1.43	0.2218	6.4	1.1E-10	5.9E-10
ENSG00000163689	CFAP20DC	CFAP20 domain containing [Source:HGNC Symbol;Acc:HGNC:24763]	107	1.17	0.1808	6.5	9.5E-11	4.9E-10
ENSG00000067992	PDK3	pyruvate dehydrogenase kinase 3 [Source:HGNC Symbol;Acc:HGNC:8811]	172	0.93	0.1433	6.5	9.0E-11	4.7E-10
ENSG00000142156	COL6A1	collagen type VI alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2211]	747	0.55	0.0852	6.5	8.7E-11	4.5E-10
ENSG00000183397	C19orf71	chromosome 19 open reading frame 71 [Source:HGNC Symbol;Acc:HGNC:34496]	93	1.29	0.1987	6.5	8.4E-11	4.4E-10
ENSG00000147804	SLC39A4	solute carrier family 39 member 4 [Source:HGNC Symbol;Acc:HGNC:17129]	171	0.92	0.1413	6.5	8.3E-11	4.3E-10
ENSG00000103254	ANTKMT	adenine nucleotide translocase lysine methyltransferase [Source:HGNC Symbol;Acc:HGNC:14152]	319	1.35	0.2081	6.5	8.0E-11	4.2E-10
ENSG00000279088	ENSG000002	TEC	194	0.91	0.1394	6.5	8.0E-11	4.2E-10
ENSG00000114251	WNT5A	Wnt family member 5A [Source:HGNC Symbol;Acc:HGNC:12784]	206	0.87	0.1330	6.5	7.7E-11	4.0E-10
ENSG00000188158	NHS	NHS actin remodeling regulator [Source:HGNC Symbol;Acc:HGNC:7820]	394	0.65	0.0993	6.5	7.7E-11	4.0E-10
ENSG00000070081	NUCB2	nucleobindin 2 [Source:HGNC Symbol;Acc:HGNC:8044]	445	0.59	0.0907	6.5	7.7E-11	4.0E-10
ENSG00000105379	ETFB	electron transfer flavoprotein subunit beta [Source:HGNC Symbol;Acc:HGNC:3482]	219	0.82	0.1265	6.5	7.6E-11	4.0E-10
ENSG00000205763	RP9P	RP9 pseudogene [Source:HGNC Symbol;Acc:HGNC:33969]	244	0.78	0.1198	6.5	7.2E-11	3.8E-10
ENSG00000166582	CENPV	centromere protein V [Source:HGNC Symbol;Acc:HGNC:29920]	185	0.88	0.1353	6.5	7.0E-11	3.7E-10
ENSG00000107611	CUBN	cubilin [Source:HGNC Symbol;Acc:HGNC:2548]	21	4.17	0.6402	6.5	7.0E-11	3.7E-10
ENSG00000145781	COMMD10	COMM domain containing 10 [Source:HGNC Symbol;Acc:HGNC:30201]	447	0.62	0.0950	6.5	6.7E-11	3.5E-10
ENSG00000287692	ENSG000002	novel transcript	22	4.76	0.7275	6.5	5.9E-11	3.1E-10
ENSG00000171403	KRT9	keratin 9 [Source:HGNC Symbol;Acc:HGNC:6447]	184	0.92	0.1402	6.5	5.8E-11	3.1E-10
ENSG00000205885	C1RL-AS1	C1RL antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:27461]	21	4.46	0.6803	6.6	5.6E-11	3.0E-10
ENSG00000241990	PRR34-AS1	PRR34 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:50499]	27	2.83	0.4315	6.6	5.6E-11	3.0E-10
ENSG00000232098	ENSG000002	novel transcript	385	0.62	0.0941	6.6	5.4E-11	2.9E-10
ENSG00000174804	FZD4	frizzled class receptor 4 [Source:HGNC Symbol;Acc:HGNC:4042]	185	0.90	0.1369	6.6	5.0E-11	2.7E-10
ENSG00000234444	ZNF736	zinc finger protein 736 [Source:HGNC Symbol;Acc:HGNC:32467]	46	2.09	0.3174	6.6	4.8E-11	2.6E-10
ENSG00000205133	TRIQK	triple QxxK/R motif containing [Source:HGNC Symbol;Acc:HGNC:27828]	90	1.31	0.1985	6.6	4.5E-11	2.4E-10
ENSG00000157554	ERG	ETS transcription factor ERG [Source:HGNC Symbol;Acc:HGNC:3446]	45	2.03	0.3078	6.6	4.5E-11	2.4E-10
ENSG00000122873	CDS1D	CDGSH iron sulfur domain 1 [Source:HGNC Symbol;Acc:HGNC:30880]	404	0.61	0.0925	6.6	4.4E-11	2.3E-10
ENSG00000147119	CHST7	carbohydrate sulfotransferase 7 [Source:HGNC Symbol;Acc:HGNC:13817]	341	1.62	0.2451	6.6	4.2E-11	2.2E-10
ENSG00000148488	ST8SIA6	ST8 alpha-N-acetyl-neuraminidase alpha-2,8-sialyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:23317]	22	4.76	0.7216	6.6	4.1E-11	2.2E-10
ENSG00000253368	TRNP1	TMF1 regulated nuclear protein 1 [Source:HGNC Symbol;Acc:HGNC:34348]	274	0.83	0.1252	6.6	3.8E-11	2.0E-10
ENSG00000182263	FIGN	fidgetin, microtubule severing factor [Source:HGNC Symbol;Acc:HGNC:13285]	622	0.52	0.0779	6.6	3.8E-11	2.0E-10
ENSG00000091831	ESR1	estrogen receptor 1 [Source:HGNC Symbol;Acc:HGNC:3467]	33	2.39	0.3613	6.6	3.8E-11	2.0E-10
ENSG00000198440	ZNF583	zinc finger protein 583 [Source:HGNC Symbol;Acc:HGNC:26427]	177	0.97	0.1462	6.6	3.7E-11	2.0E-10
ENSG00000131148	EMC8	ER membrane protein complex subunit 8 [Source:HGNC Symbol;Acc:HGNC:7864]	447	0.62	0.0930	6.6	3.5E-11	1.9E-10

ENSG00000234171	RNASEH1-AS1	RNASEH1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49289]	161	0.99	0.1494	6.6	3.5E-11	1.9E-10
ENSG00000234997	ENSG00000234997	novel transcript	25	3.13	0.4720	6.6	3.2E-11	1.7E-10
ENSG00000081803	CADPS2	calcium dependent secretion activator 2 [Source:HGNC Symbol;Acc:HGNC:16018]	94	1.37	0.2066	6.6	2.9E-11	1.6E-10
ENSG00000173818	ENDOV	endonuclease V [Source:HGNC Symbol;Acc:HGNC:26640]	409	0.65	0.0980	6.7	2.8E-11	1.5E-10
ENSG00000219481	NBPF1	NBPF member 1 [Source:HGNC Symbol;Acc:HGNC:26088]	575	0.56	0.0849	6.7	2.8E-11	1.5E-10
ENSG00000203326	ZNF525	zinc finger protein 525 [Source:HGNC Symbol;Acc:HGNC:29423]	508	0.58	0.0869	6.7	2.8E-11	1.5E-10
ENSG00000142920	AZIN2	antizyme inhibitor 2 [Source:HGNC Symbol;Acc:HGNC:29957]	100	1.30	0.1953	6.7	2.7E-11	1.4E-10
ENSG00000255836	ENSG00000255836	M-phase phosphoprotein 8 (MPHOSPH8) pseudogene	70	1.57	0.2357	6.7	2.5E-11	1.4E-10
ENSG00000269439	PGLS-DT	PGLS divergent transcript [Source:HGNC Symbol;Acc:HGNC:55274]	88	1.37	0.2051	6.7	2.5E-11	1.4E-10
ENSG00000181666	ZNF875	zinc finger protein 875 [Source:HGNC Symbol;Acc:HGNC:4928]	580	0.56	0.0845	6.7	2.4E-11	1.3E-10
ENSG00000261092	LINC02178	long intergenic non-protein coding RNA 2178 [Source:HGNC Symbol;Acc:HGNC:53040]	208	0.91	0.1357	6.7	2.1E-11	1.1E-10
ENSG00000151422	FER	FER tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:3655]	593	0.52	0.0777	6.7	2.0E-11	1.1E-10
ENSG00000144935	TRPC1	transient receptor potential cation channel subfamily C member 1 [Source:HGNC Symbol;Acc:HGNC:12535]	178	0.95	0.1410	6.7	1.8E-11	9.9E-11
ENSG00000213020	ZNF611	zinc finger protein 611 [Source:HGNC Symbol;Acc:HGNC:28766]	262	0.78	0.1154	6.7	1.8E-11	9.8E-11
ENSG00000162729	IGSF8	immunoglobulin superfamily member 8 [Source:HGNC Symbol;Acc:HGNC:17813]	671	0.50	0.0748	6.7	1.6E-11	8.9E-11
ENSG00000189362	NEMP2	nuclear envelope integral membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:33700]	276	0.78	0.1164	6.7	1.6E-11	8.9E-11
ENSG00000133627	ACTR3B	actin related protein 3B [Source:HGNC Symbol;Acc:HGNC:17256]	295	0.74	0.1102	6.7	1.5E-11	8.2E-11
ENSG00000237765	FAM200B	family with sequence similarity 200 member B [Source:HGNC Symbol;Acc:HGNC:27740]	502	0.56	0.0829	6.7	1.5E-11	8.2E-11
ENSG00000145147	SLIT2	slit guidance ligand 2 [Source:HGNC Symbol;Acc:HGNC:11086]	38	2.36	0.3494	6.8	1.5E-11	8.0E-11
ENSG00000137440	FGFBP1	fibroblast growth factor binding protein 1 [Source:HGNC Symbol;Acc:HGNC:19695]	596	0.55	0.0814	6.8	1.4E-11	7.9E-11
ENSG00000203993	ARRDC1-AS1	ARRDC1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:23395]	399	0.63	0.0932	6.8	1.4E-11	7.5E-11
ENSG00000284968	ENSG00000284968	Novel transcript, antisense to AFF1	72	1.60	0.2370	6.8	1.3E-11	7.2E-11
ENSG00000251281	ENSG00000251281	novel transcript	26	8.23	1.2166	6.8	1.3E-11	7.2E-11
ENSG00000204396	VWA7	von Willebrand factor A domain containing 7 [Source:HGNC Symbol;Acc:HGNC:13939]	211	0.92	0.1354	6.8	1.3E-11	7.0E-11
ENSG00000188641	DPYD	dihydropyrimidine dehydrogenase [Source:HGNC Symbol;Acc:HGNC:3012]	514	0.56	0.0830	6.8	1.2E-11	6.8E-11
ENSG00000178573	MAF	MAF bZIP transcription factor [Source:HGNC Symbol;Acc:HGNC:6776]	63	1.73	0.2548	6.8	1.2E-11	6.7E-11
ENSG00000180233	ZNRF2	zinc and ring finger 2 [Source:HGNC Symbol;Acc:HGNC:22316]	412	0.75	0.1101	6.8	1.1E-11	6.3E-11
ENSG00000171827	ZNF570	zinc finger protein 570 [Source:HGNC Symbol;Acc:HGNC:26416]	159	1.02	0.1499	6.8	1.1E-11	6.0E-11
ENSG00000151131	C12orf45	chromosome 12 open reading frame 45 [Source:HGNC Symbol;Acc:HGNC:28628]	262	0.78	0.1141	6.8	1.1E-11	5.9E-11
ENSG00000184599	TAF3	TAF3 chemokine like family member 3 [Source:HGNC Symbol;Acc:HGNC:21590]	29	2.97	0.4362	6.8	1.0E-11	5.8E-11
ENSG00000180176	TH	tyrosine hydroxylase [Source:HGNC Symbol;Acc:HGNC:11782]	53	1.85	0.2709	6.8	8.5E-12	4.7E-11
ENSG00000135469	COQ10A	coenzyme Q10A [Source:HGNC Symbol;Acc:HGNC:26515]	209	0.88	0.1281	6.8	7.8E-12	4.4E-11
ENSG00000262454	MIR193BHG	MIR193b-365a host gene [Source:HGNC Symbol;Acc:HGNC:51945]	430	0.65	0.0946	6.8	7.5E-12	4.2E-11
ENSG00000004700	RECQL	RecQ like helicase [Source:HGNC Symbol;Acc:HGNC:9948]	632	0.51	0.0747	6.9	7.4E-12	4.1E-11
ENSG00000169902	TPST1	tyrosylprotein sulfotransferase 1 [Source:HGNC Symbol;Acc:HGNC:12020]	338	0.78	0.1145	6.9	7.1E-12	4.0E-11
ENSG00000198521	ZNF43	zinc finger protein 43 [Source:HGNC Symbol;Acc:HGNC:13109]	55	1.84	0.2678	6.9	7.1E-12	4.0E-11
ENSG00000112210	RAB23	RAB23, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:14263]	376	0.68	0.0985	6.9	7.1E-12	3.9E-11
ENSG00000254858	MPV17L2	MPV17 mitochondrial inner membrane protein like 2 [Source:HGNC Symbol;Acc:HGNC:28177]	730	0.51	0.0746	6.9	7.1E-12	3.9E-11
ENSG00000188015	S100A3	S100 calcium binding protein A3 [Source:HGNC Symbol;Acc:HGNC:10493]	49	1.95	0.2838	6.9	6.9E-12	3.9E-11
ENSG00000225439	BOLA3-AS1	BOLA3 divergent transcript [Source:HGNC Symbol;Acc:HGNC:42922]	326	0.70	0.1020	6.9	6.8E-12	3.8E-11
ENSG00000198353	HOXC4	homeobox C4 [Source:HGNC Symbol;Acc:HGNC:5126]	85	1.44	0.2100	6.9	6.6E-12	3.7E-11
ENSG00000268223	ARL14EPL	ADP ribosylation factor like GTPase 14 effector protein like [Source:HGNC Symbol;Acc:HGNC:44201]	23	4.35	0.6323	6.9	6.3E-12	3.5E-11

ENSG00000038295	TLL1	tolloid like 1 [Source:HGNC Symbol;Acc:HGNC:11843]	27	3.18	0.4604	6.9	5.1E-12	2.9E-11
ENSG00000131370	SH3BP5	SH3 domain binding protein 5 [Source:HGNC Symbol;Acc:HGNC:10827]	208	0.91	0.1314	6.9	4.9E-12	2.8E-11
ENSG00000172086	KRCC1	lysine rich coiled-coil 1 [Source:HGNC Symbol;Acc:HGNC:28039]	281	0.80	0.1153	6.9	4.8E-12	2.7E-11
ENSG00000158966	CACHD1	cache domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29314]	280	0.78	0.1129	6.9	4.7E-12	2.7E-11
ENSG00000123685	BATF3	basic leucine zipper ATF-like transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:28915]	117	1.21	0.1750	6.9	4.7E-12	2.7E-11
ENSG00000145107	TM4SF19	transmembrane 4 L six family member 19 [Source:HGNC Symbol;Acc:HGNC:25167]	25	3.72	0.5369	6.9	4.5E-12	2.5E-11
ENSG00000259583	ENSG00000259583	novel transcript, antisense to LRRK1 and ALDH1A3	49	1.99	0.2862	6.9	4.0E-12	2.3E-11
ENSG00000196843	ARID5A	AT-rich interaction domain 5A [Source:HGNC Symbol;Acc:HGNC:17361]	219	0.89	0.1279	6.9	3.9E-12	2.2E-11
ENSG00000269416	LINC01224	long intergenic non-protein coding RNA 1224 [Source:HGNC Symbol;Acc:HGNC:49676]	149	1.06	0.1525	7.0	3.6E-12	2.0E-11
ENSG00000085644	ZNF213	zinc finger protein 213 [Source:HGNC Symbol;Acc:HGNC:13005]	196	0.95	0.1360	7.0	3.6E-12	2.0E-11
ENSG00000182870	GALNT9	polypeptide N-acetylgalactosaminyltransferase 9 [Source:HGNC Symbol;Acc:HGNC:4131]	24	4.01	0.5758	7.0	3.4E-12	1.9E-11
ENSG00000197265	GTF2E2	general transcription factor IIE subunit 2 [Source:HGNC Symbol;Acc:HGNC:4651]	435	0.64	0.0915	7.0	3.4E-12	1.9E-11
ENSG00000135736	CCDC102A	coiled-coil domain containing 102A [Source:HGNC Symbol;Acc:HGNC:28097]	385	0.66	0.0951	7.0	3.1E-12	1.8E-11
ENSG00000179965	ZNF771	zinc finger protein 771 [Source:HGNC Symbol;Acc:HGNC:29653]	127	1.19	0.1701	7.0	2.8E-12	1.6E-11
ENSG00000196214	ZNF766	zinc finger protein 766 [Source:HGNC Symbol;Acc:HGNC:28063]	441	0.62	0.0887	7.0	2.7E-12	1.6E-11
ENSG00000230267	HERC2P4	hect domain and RLD 2 pseudogene 4 [Source:HGNC Symbol;Acc:HGNC:4872]	27	3.21	0.4594	7.0	2.7E-12	1.5E-11
ENSG00000161980	POLR3K	RNA polymerase III subunit K [Source:HGNC Symbol;Acc:HGNC:14121]	637	0.52	0.0750	7.0	2.6E-12	1.5E-11
ENSG00000168273	SMIM4	small integral membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:37257]	795	0.51	0.0734	7.0	2.4E-12	1.4E-11
ENSG00000164509	IL31RA	interleukin 31 receptor A [Source:HGNC Symbol;Acc:HGNC:18969]	147	1.08	0.1542	7.0	2.3E-12	1.3E-11
ENSG00000103319	EEF2K	eukaryotic elongation factor 2 kinase [Source:HGNC Symbol;Acc:HGNC:24615]	624	0.55	0.0777	7.0	2.2E-12	1.3E-11
ENSG00000276180	H4C9	H4 clustered histone 9 [Source:HGNC Symbol;Acc:HGNC:4793]	307	0.81	0.1157	7.0	2.1E-12	1.2E-11
ENSG00000161558	TMEM143	transmembrane protein 143 [Source:HGNC Symbol;Acc:HGNC:25603]	282	0.78	0.1101	7.0	1.8E-12	1.1E-11
ENSG00000100285	NEFH	neurofilament heavy [Source:HGNC Symbol;Acc:HGNC:7737]	33	2.67	0.3784	7.1	1.8E-12	1.0E-11
ENSG00000103274	NUBP1	nucleotide binding protein 1 [Source:HGNC Symbol;Acc:HGNC:8041]	258	0.81	0.1150	7.1	1.7E-12	1.0E-11
ENSG00000165443	PHYHIPL	phytanoyl-CoA 2-hydroxylase interacting protein like [Source:HGNC Symbol;Acc:HGNC:29378]	141	1.23	0.1746	7.1	1.7E-12	9.8E-12
ENSG00000256229	ZNF486	zinc finger protein 486 [Source:HGNC Symbol;Acc:HGNC:20807]	64	1.79	0.2532	7.1	1.6E-12	9.3E-12
ENSG00000173546	CSPG4	chondroitin sulfate proteoglycan 4 [Source:HGNC Symbol;Acc:HGNC:2466]	156	1.20	0.1693	7.1	1.6E-12	9.2E-12
ENSG00000183454	GRIN2A	glutamate ionotropic receptor NMDA type subunit 2A [Source:HGNC Symbol;Acc:HGNC:4585]	35	6.18	0.8734	7.1	1.5E-12	8.8E-12
ENSG00000137343	ATAT1	alpha tubulin acetyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:21186]	43	2.25	0.3176	7.1	1.3E-12	7.8E-12
ENSG00000175643	RMI2	RecQ mediated genome instability 2 [Source:HGNC Symbol;Acc:HGNC:28349]	379	0.70	0.0990	7.1	1.3E-12	7.6E-12
ENSG00000157613	CREB3L1	cAMP responsive element binding protein 3 like 1 [Source:HGNC Symbol;Acc:HGNC:18856]	88	1.47	0.2070	7.1	1.2E-12	7.3E-12
ENSG00000197385	ZNF860	zinc finger protein 860 [Source:HGNC Symbol;Acc:HGNC:34513]	154	1.11	0.1561	7.1	1.2E-12	7.2E-12
ENSG00000111450	STX2	syntaxin 2 [Source:HGNC Symbol;Acc:HGNC:3403]	110	1.30	0.1824	7.1	1.2E-12	7.1E-12
ENSG00000088826	SMOX	spermine oxidase [Source:HGNC Symbol;Acc:HGNC:15862]	342	0.76	0.1064	7.1	1.2E-12	7.0E-12
ENSG00000243232	PCDHAC2	protocadherin alpha subfamily C, 2 [Source:HGNC Symbol;Acc:HGNC:8677]	45	2.36	0.3321	7.1	1.2E-12	6.9E-12
ENSG00000081853	PCDHGA2	protocadherin gamma subfamily A, 2 [Source:HGNC Symbol;Acc:HGNC:8700]	222	0.91	0.1277	7.1	1.2E-12	6.9E-12
ENSG00000103494	RPGRIP1L	RPGRIP1 like [Source:HGNC Symbol;Acc:HGNC:29168]	403	0.65	0.0921	7.1	1.2E-12	6.8E-12
ENSG00000065057	NTHL1	nth like DNA glycosylase 1 [Source:HGNC Symbol;Acc:HGNC:8028]	214	0.92	0.1300	7.1	1.2E-12	6.7E-12
ENSG00000105141	CASP14	caspase 14 [Source:HGNC Symbol;Acc:HGNC:1502]	762	6.27	0.8818	7.1	1.1E-12	6.5E-12
ENSG00000103253	HAGHL	hydroxyacylglutathione hydrolase like [Source:HGNC Symbol;Acc:HGNC:14177]	125	1.25	0.1751	7.1	1.1E-12	6.4E-12
ENSG00000235601	BARX1-DT	BARX1 divergent transcript [Source:HGNC Symbol;Acc:HGNC:50673]	31	2.98	0.4174	7.1	9.3E-13	5.5E-12
ENSG00000261762	ENSG00000261762	novel transcript, antisense to CHRNA5	47	2.11	0.2954	7.1	9.1E-13	5.4E-12

ENSG00000135318	NT5E	5'-nucleotidase ecto [Source:HGNC Symbol;Acc:HGNC:8021]	520	0.59	0.0824	7.1	9.1E-13	5.3E-12
ENSG00000125864	BFSP1	beaded filament structural protein 1 [Source:HGNC Symbol;Acc:HGNC:1040]	84	1.48	0.2069	7.1	8.7E-13	5.1E-12
ENSG00000174132	FAM174A	family with sequence similarity 174 member A [Source:HGNC Symbol;Acc:HGNC:24943]	628	0.53	0.0744	7.2	8.5E-13	5.0E-12
ENSG00000104369	JPH1	junctophilin 1 [Source:HGNC Symbol;Acc:HGNC:14201]	164	1.04	0.1454	7.2	8.1E-13	4.8E-12
ENSG00000167515	TRAPPC2L	trafficking protein particle complex 2 like [Source:HGNC Symbol;Acc:HGNC:30887]	579	0.62	0.0859	7.2	7.9E-13	4.6E-12
ENSG00000247596	TWF2	twinfilin actin binding protein 2 [Source:HGNC Symbol;Acc:HGNC:9621]	712	0.55	0.0767	7.2	6.9E-13	4.1E-12
ENSG00000160233	LRR3	leucine rich repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:14965]	137	1.15	0.1598	7.2	6.6E-13	3.9E-12
ENSG00000177613	CSTF2T	cleavage stimulation factor subunit 2 tau variant [Source:HGNC Symbol;Acc:HGNC:17086]	540	0.63	0.0872	7.2	6.4E-13	3.8E-12
ENSG00000184857	TMEM186	transmembrane protein 186 [Source:HGNC Symbol;Acc:HGNC:24530]	205	0.93	0.1295	7.2	6.1E-13	3.6E-12
ENSG00000203650	LINC01285	long intergenic non-protein coding RNA 1285 [Source:HGNC Symbol;Acc:HGNC:50344]	180	1.02	0.1409	7.2	5.9E-13	3.5E-12
ENSG00000101292	PROKR2	prokineticin receptor 2 [Source:HGNC Symbol;Acc:HGNC:15836]	122	1.22	0.1694	7.2	5.7E-13	3.4E-12
ENSG00000171700	RGS19	regulator of G protein signaling 19 [Source:HGNC Symbol;Acc:HGNC:13735]	744	0.53	0.0733	7.2	5.5E-13	3.3E-12
ENSG00000090238	YPEL3	yippee like 3 [Source:HGNC Symbol;Acc:HGNC:18327]	137	1.20	0.1658	7.2	5.3E-13	3.1E-12
ENSG00000244187	TMEM141	transmembrane protein 141 [Source:HGNC Symbol;Acc:HGNC:28211]	234	0.91	0.1254	7.2	5.2E-13	3.1E-12
ENSG00000008086	CDKL5	cyclin dependent kinase like 5 [Source:HGNC Symbol;Acc:HGNC:11411]	114	1.30	0.1792	7.2	4.9E-13	2.9E-12
ENSG00000105204	DYRK1B	dual specificity tyrosine phosphorylation regulated kinase 1B [Source:HGNC Symbol;Acc:HGNC:3092]	182	1.02	0.1402	7.2	4.4E-13	2.6E-12
ENSG00000181817	LSM10	LSM10, U7 small nuclear RNA associated [Source:HGNC Symbol;Acc:HGNC:17562]	711	0.51	0.0704	7.2	4.3E-13	2.6E-12
ENSG00000185885	IFITM1	interferon induced transmembrane protein 1 [Source:HGNC Symbol;Acc:HGNC:5412]	109	1.46	0.2010	7.2	4.2E-13	2.5E-12
ENSG00000196123	KIAA0895L	KIAA0895 like [Source:HGNC Symbol;Acc:HGNC:34408]	473	0.62	0.0848	7.3	4.1E-13	2.4E-12
ENSG00000146242	TPBG	trophoblast glycoprotein [Source:HGNC Symbol;Acc:HGNC:12004]	241	0.86	0.1189	7.3	3.9E-13	2.3E-12
ENSG00000107537	PHYH	phytanoyl-CoA 2-hydroxylase [Source:HGNC Symbol;Acc:HGNC:8940]	397	0.73	0.1004	7.3	3.9E-13	2.3E-12
ENSG00000104093	DMXL2	Dmx like 2 [Source:HGNC Symbol;Acc:HGNC:2938]	846	0.50	0.0691	7.3	3.8E-13	2.2E-12
ENSG00000168569	TMEM223	transmembrane protein 223 [Source:HGNC Symbol;Acc:HGNC:28464]	295	0.79	0.1092	7.3	3.8E-13	2.2E-12
ENSG00000235508	RPS2P7	ribosomal protein S2 pseudogene 7 [Source:HGNC Symbol;Acc:HGNC:15838]	90	1.48	0.2035	7.3	3.4E-13	2.0E-12
ENSG00000267254	ZNF790-AS1	ZNF790 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:27617]	156	1.13	0.1546	7.3	3.3E-13	2.0E-12
ENSG00000274213	ENSG00000274213	novel transcript	74	1.66	0.2286	7.3	3.3E-13	2.0E-12
ENSG00000005238	FAM214B	family with sequence similarity 214 member B [Source:HGNC Symbol;Acc:HGNC:25666]	267	0.85	0.1160	7.3	2.9E-13	1.8E-12
ENSG00000128011	LRFN1	leucine rich repeat and fibronectin type III domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29290]	207	0.96	0.1319	7.3	2.9E-13	1.7E-12
ENSG00000188290	HES4	hes family bHLH transcription factor 4 [Source:HGNC Symbol;Acc:HGNC:24149]	259	0.93	0.1274	7.3	2.8E-13	1.7E-12
ENSG00000140993	TIGD7	tigger transposable element derived 7 [Source:HGNC Symbol;Acc:HGNC:18331]	66	1.79	0.2444	7.3	2.5E-13	1.5E-12
ENSG00000136111	TBC1D4	TBC1 domain family member 4 [Source:HGNC Symbol;Acc:HGNC:19165]	194	0.98	0.1342	7.3	2.4E-13	1.4E-12
ENSG00000110871	COQ5	coenzyme Q5, methyltransferase [Source:HGNC Symbol;Acc:HGNC:28722]	546	0.60	0.0817	7.3	2.3E-13	1.4E-12
ENSG00000111886	WNT5B	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	128	1.31	0.1793	7.3	2.3E-13	1.4E-12
ENSG00000102890	ELMO3	gulflumant and cell motility 3 [Source:HGNC Symbol;Acc:HGNC:17289]	231	0.90	0.1226	7.3	2.1E-13	1.3E-12
ENSG00000175294	CATSPER1	cation channel sperm associated 1 [Source:HGNC Symbol;Acc:HGNC:17116]	27	4.39	0.5975	7.3	2.1E-13	1.3E-12
ENSG00000216588	IGSF23	immunoglobulin superfamily member 23 [Source:HGNC Symbol;Acc:HGNC:40040]	55	2.09	0.2847	7.3	2.1E-13	1.2E-12
ENSG00000023572	GLRX2	glutaredoxin 2 [Source:HGNC Symbol;Acc:HGNC:16065]	487	0.62	0.0837	7.3	2.0E-13	1.2E-12
ENSG00000272079	ENSG00000272079	novel transcript	86	1.56	0.2123	7.3	2.0E-13	1.2E-12
ENSG00000170382	LRRN2	leucine rich repeat neuronal 2 [Source:HGNC Symbol;Acc:HGNC:16914]	115	1.32	0.1790	7.4	1.9E-13	1.2E-12
ENSG00000163297	ANTXR2	ANTXR cell adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:21732]	121	1.34	0.1816	7.4	1.9E-13	1.2E-12
ENSG00000205730	ITPR1L2	ITPRIP like 2 [Source:HGNC Symbol;Acc:HGNC:27257]	2812	0.61	0.0829	7.4	1.8E-13	1.1E-12
ENSG00000114698	PLSCR4	phospholipid scramblase 4 [Source:HGNC Symbol;Acc:HGNC:16497]	96	1.75	0.2383	7.4	1.8E-13	1.1E-12

ENSG00000151640	DPYSL4	dihydropyrimidinase like 4 [Source:HGNC Symbol;Acc:HGNC:3016]	351	0.73	0.0988	7.4	1.7E-13	1.1E-12
ENSG00000013016	EHD3	EH domain containing 3 [Source:HGNC Symbol;Acc:HGNC:3244]	463	0.66	0.0898	7.4	1.7E-13	1.0E-12
ENSG00000161551	ZNF577	zinc finger protein 577 [Source:HGNC Symbol;Acc:HGNC:28673]	493	0.64	0.0863	7.4	1.7E-13	1.0E-12
ENSG00000184371	CSF1	colony stimulating factor 1 [Source:HGNC Symbol;Acc:HGNC:2432]	165	1.16	0.1562	7.4	1.3E-13	8.0E-13
ENSG00000280789	PAGR1	PAXIP1 associated glutamate rich protein 1 [Source:HGNC Symbol;Acc:HGNC:28707]	206	0.96	0.1294	7.4	1.2E-13	7.6E-13
ENSG00000116729	WLS	Wnt ligand secretion mediator [Source:HGNC Symbol;Acc:HGNC:30238]	727	0.53	0.0709	7.4	1.2E-13	7.4E-13
ENSG00000101213	PTK6	protein tyrosine kinase 6 [Source:HGNC Symbol;Acc:HGNC:9617]	369	0.74	0.1001	7.4	1.2E-13	7.3E-13
ENSG00000104825	NFKBIB	NFKB inhibitor beta [Source:HGNC Symbol;Acc:HGNC:7798]	645	0.56	0.0758	7.4	1.2E-13	7.1E-13
ENSG00000125730	C3	complement C3 [Source:HGNC Symbol;Acc:HGNC:1318]	108	1.38	0.1856	7.4	1.1E-13	6.8E-13
ENSG00000172687	ZNF738	zinc finger protein 738 [Source:HGNC Symbol;Acc:HGNC:32469]	254	0.91	0.1221	7.4	1.1E-13	6.7E-13
ENSG00000026103	FAS	Fas cell surface death receptor [Source:HGNC Symbol;Acc:HGNC:11920]	118	1.30	0.1751	7.4	1.1E-13	6.6E-13
ENSG00000078403	MLLT10	MLLT10 histone lysine methyltransferase DOT1L cofactor [Source:HGNC Symbol;Acc:HGNC:16063]	574	0.58	0.0779	7.4	1.1E-13	6.6E-13
ENSG00000164219	PGGT1B	protein geranylgeranyltransferase type I subunit beta [Source:HGNC Symbol;Acc:HGNC:8895]	546	0.60	0.0810	7.4	1.0E-13	6.3E-13
ENSG00000120725	SIL1	SIL1 nucleotide exchange factor [Source:HGNC Symbol;Acc:HGNC:24624]	567	0.63	0.0843	7.4	9.7E-14	6.0E-13
ENSG00000186777	ZNF732	zinc finger protein 732 [Source:HGNC Symbol;Acc:HGNC:37138]	75	1.67	0.2232	7.5	8.0E-14	4.9E-13
ENSG00000186076	ENSG000001	phosphoglycerate mutase 1 (brain) (PGAM1) pseudogene	296	0.83	0.1109	7.5	7.9E-14	4.9E-13
ENSG00000227496	ENSG000002	novel transcript	40	2.81	0.3758	7.5	7.7E-14	4.8E-13
ENSG00000198930	CSAG1	chondrosarcoma associated gene 1 [Source:HGNC Symbol;Acc:HGNC:24294]	1053	0.51	0.0676	7.5	6.9E-14	4.3E-13
ENSG00000169684	CHRNA5	cholinergic receptor nicotinic alpha 5 subunit [Source:HGNC Symbol;Acc:HGNC:1959]	66	1.81	0.2409	7.5	6.0E-14	3.7E-13
ENSG00000188171	ZNF626	zinc finger protein 626 [Source:HGNC Symbol;Acc:HGNC:30461]	30	4.12	0.5490	7.5	5.9E-14	3.7E-13
ENSG00000182154	MRPL41	mitochondrial ribosomal protein L41 [Source:HGNC Symbol;Acc:HGNC:14492]	2053	0.93	0.1237	7.5	5.5E-14	3.5E-13
ENSG00000089486	CDIP1	cell death inducing p53 target 1 [Source:HGNC Symbol;Acc:HGNC:13234]	97	1.45	0.1922	7.5	5.1E-14	3.2E-13
ENSG00000177150	FAM210A	family with sequence similarity 210 member A [Source:HGNC Symbol;Acc:HGNC:28346]	523	0.62	0.0823	7.5	5.0E-14	3.2E-13
ENSG00000162104	ADCY9	adenylate cyclase 9 [Source:HGNC Symbol;Acc:HGNC:240]	542	0.67	0.0888	7.5	4.7E-14	2.9E-13
ENSG00000138613	APH1B	aph-1 homolog B, gamma-secretase subunit [Source:HGNC Symbol;Acc:HGNC:24080]	229	0.97	0.1283	7.5	4.7E-14	2.9E-13
ENSG00000166130	IKBIP	IKKKB interacting protein [Source:HGNC Symbol;Acc:HGNC:26430]	605	0.57	0.0761	7.5	4.5E-14	2.8E-13
ENSG00000254087	LYN	LYN proto-oncogene, Src family tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:6735]	689	0.61	0.0811	7.6	4.0E-14	2.5E-13
ENSG00000013619	MAMLD1	mastermind like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:2568]	51	2.27	0.2997	7.6	4.0E-14	2.5E-13
ENSG00000153774	CFDP1	craniofacial development protein 1 [Source:HGNC Symbol;Acc:HGNC:1873]	641	0.57	0.0759	7.6	4.0E-14	2.5E-13
ENSG00000124635	H2BC11	H2B clustered histone 11 [Source:HGNC Symbol;Acc:HGNC:4761]	101	1.50	0.1981	7.6	3.5E-14	2.2E-13
ENSG00000188566	NDOR1	NADPH dependent diflavin oxidoreductase 1 [Source:HGNC Symbol;Acc:HGNC:29838]	647	0.56	0.0744	7.6	3.5E-14	2.2E-13
ENSG00000111846	GCNT2	glucosaminyl (N-acetyl) transferase 2 (I blood group) [Source:HGNC Symbol;Acc:HGNC:4204]	36	2.95	0.3887	7.6	3.5E-14	2.2E-13
ENSG00000152256	PDK1	pyruvate dehydrogenase kinase 1 [Source:HGNC Symbol;Acc:HGNC:8809]	270	0.89	0.1169	7.6	3.1E-14	2.0E-13
ENSG00000153551	CMTM7	CKLF like MARVEL transmembrane domain containing 7 [Source:HGNC Symbol;Acc:HGNC:19178]	126	1.27	0.1675	7.6	3.0E-14	1.9E-13
ENSG00000167967	E4F1	E4F transcription factor 1 [Source:HGNC Symbol;Acc:HGNC:3121]	617	0.63	0.0830	7.6	2.9E-14	1.9E-13
ENSG00000232310	ENSG000002	novel transcript	33	5.33	0.6992	7.6	2.4E-14	1.6E-13
ENSG00000164136	IL15	interleukin 15 [Source:HGNC Symbol;Acc:HGNC:5977]	44	2.45	0.3206	7.6	2.3E-14	1.5E-13
ENSG00000166484	MAPK7	mitogen-activated protein kinase 7 [Source:HGNC Symbol;Acc:HGNC:6880]	556	0.62	0.0810	7.6	2.3E-14	1.5E-13
ENSG00000120324	PCDHB10	protocadherin beta 10 [Source:HGNC Symbol;Acc:HGNC:8681]	45	2.52	0.3305	7.6	2.3E-14	1.5E-13
ENSG00000169026	SLC49A3	solute carrier family 49 member 3 [Source:HGNC Symbol;Acc:HGNC:26177]	205	1.02	0.1335	7.7	1.8E-14	1.1E-13
ENSG00000120549	KIAA1217	KIAA1217 [Source:HGNC Symbol;Acc:HGNC:25428]	748	0.54	0.0707	7.7	1.7E-14	1.1E-13
ENSG00000183114	FAM43B	family with sequence similarity 43 member B [Source:HGNC Symbol;Acc:HGNC:31791]	64	2.10	0.2732	7.7	1.7E-14	1.1E-13

ENSG00000116396	KCNC4	potassium voltage-gated channel subfamily C member 4 [Source:HGNC Symbol;Acc:HGNC:6236]	402	0.71	0.0924	7.7	1.6E-14	1.0E-13
ENSG00000161791	FMNL3	formin like 3 [Source:HGNC Symbol;Acc:HGNC:23698]	144	1.26	0.1641	7.7	1.5E-14	9.9E-14
ENSG00000129194	SOX15	SRY-box transcription factor 15 [Source:HGNC Symbol;Acc:HGNC:11196]	129	1.29	0.1682	7.7	1.4E-14	9.0E-14
ENSG00000216866	RPS2P55	ribosomal protein S2 pseudogene 55 [Source:HGNC Symbol;Acc:HGNC:36140]	153	1.21	0.1574	7.7	1.3E-14	8.7E-14
ENSG00000103168	TAF1C	TATA-box binding protein associated factor, RNA polymerase I subunit C [Source:HGNC Symbol;Acc:HGNC:20647]	589	0.60	0.0773	7.7	1.2E-14	7.9E-14
ENSG00000196793	ZNF239	zinc finger protein 239 [Source:HGNC Symbol;Acc:HGNC:13031]	102	1.47	0.1901	7.7	1.1E-14	7.4E-14
ENSG00000196724	ZNF418	zinc finger protein 418 [Source:HGNC Symbol;Acc:HGNC:20647]	246	1.02	0.1323	7.7	1.0E-14	6.6E-14
ENSG00000008735	MAPK8IP2	mitogen-activated protein kinase 8 interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:6883]	432	0.73	0.0940	7.7	9.8E-15	6.4E-14
ENSG00000180818	HOXC10	homeobox C10 [Source:HGNC Symbol;Acc:HGNC:5122]	289	0.95	0.1220	7.8	8.8E-15	5.7E-14
ENSG00000198160	MIER1	MIER1 transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:29657]	849	0.50	0.0650	7.8	8.3E-15	5.4E-14
ENSG00000179674	ARL14	ADP ribosylation factor like GTPase 14 [Source:HGNC Symbol;Acc:HGNC:22974]	269	0.90	0.1162	7.8	7.8E-15	5.1E-14
ENSG00000214975	PPIAP29	peptidylprolyl isomerase A pseudogene 29 [Source:HGNC Symbol;Acc:HGNC:43021]	205	1.04	0.1332	7.8	7.0E-15	4.6E-14
ENSG00000231205	ZNF826P	zinc finger protein 826, pseudogene [Source:HGNC Symbol;Acc:HGNC:33875]	75	1.81	0.2324	7.8	6.9E-15	4.5E-14
ENSG00000132661	NXT1	nuclear transport factor 2 like export factor 1 [Source:HGNC Symbol;Acc:HGNC:15913]	914	0.50	0.0643	7.8	6.9E-15	4.5E-14
ENSG00000135346	CGA	glycoprotein hormones, alpha polypeptide [Source:HGNC Symbol;Acc:HGNC:1885]	40	2.77	0.3558	7.8	6.7E-15	4.4E-14
ENSG00000139289	PHLDA1	pleckstrin homology like domain family A member 1 [Source:HGNC Symbol;Acc:HGNC:8933]	719	0.58	0.0747	7.8	6.5E-15	4.2E-14
ENSG00000185189	NRBP2	nuclear receptor binding protein 2 [Source:HGNC Symbol;Acc:HGNC:19339]	677	0.57	0.0736	7.8	6.1E-15	4.0E-14
ENSG00000177409	SAMD9L	sterile alpha motif domain containing 9 like [Source:HGNC Symbol;Acc:HGNC:1349]	813	0.57	0.0731	7.8	5.5E-15	3.6E-14
ENSG00000176261	ZBTB8OS	zinc finger and BTB domain containing 8 opposite strand [Source:HGNC Symbol;Acc:HGNC:24094]	771	0.54	0.0685	7.8	5.4E-15	3.6E-14
ENSG00000269713	NBPF9	NBPF member 9 [Source:HGNC Symbol;Acc:HGNC:31991]	460	0.70	0.0896	7.8	4.6E-15	3.0E-14
ENSG00000165533	TTC8	tetratricopeptide repeat domain 8 [Source:HGNC Symbol;Acc:HGNC:20087]	370	0.77	0.0982	7.8	4.6E-15	3.0E-14
ENSG00000103510	KAT8	lysine acetyltransferase 8 [Source:HGNC Symbol;Acc:HGNC:17933]	529	0.68	0.0863	7.8	4.4E-15	2.9E-14
ENSG00000197548	ATG7	autophagy related 7 [Source:HGNC Symbol;Acc:HGNC:16935]	775	0.55	0.0699	7.8	4.3E-15	2.8E-14
ENSG00000168807	SNTB2	syntrophin beta 2 [Source:HGNC Symbol;Acc:HGNC:11169]	671	0.60	0.0759	7.8	4.2E-15	2.8E-14
ENSG00000103227	LMF1	lipase maturation factor 1 [Source:HGNC Symbol;Acc:HGNC:14154]	84	1.67	0.2121	7.9	3.9E-15	2.6E-14
ENSG00000140743	CDR2	cerebellar degeneration related protein 2 [Source:HGNC Symbol;Acc:HGNC:1799]	533	0.65	0.0826	7.9	3.6E-15	2.4E-14
ENSG00000132635	PCED1A	PC-esterase domain containing 1A [Source:HGNC Symbol;Acc:HGNC:16212]	829	0.53	0.0665	7.9	2.7E-15	1.8E-14
ENSG00000089199	CHGB	chromogranin B [Source:HGNC Symbol;Acc:HGNC:1930]	77	1.75	0.2219	7.9	2.7E-15	1.8E-14
ENSG00000176148	TCP11L1	t-complex 11 like 1 [Source:HGNC Symbol;Acc:HGNC:25655]	604	0.66	0.0836	7.9	2.6E-15	1.7E-14
ENSG00000197016	ZNF470	zinc finger protein 470 [Source:HGNC Symbol;Acc:HGNC:22220]	285	0.88	0.1110	7.9	2.5E-15	1.7E-14
ENSG00000187535	IFT140	intraflagellar transport 140 [Source:HGNC Symbol;Acc:HGNC:29077]	396	0.78	0.0981	7.9	2.5E-15	1.6E-14
ENSG00000031081	ARHGAP31	Rho GTPase activating protein 31 [Source:HGNC Symbol;Acc:HGNC:29216]	320	0.87	0.1096	7.9	2.4E-15	1.6E-14
ENSG00000130827	PLXNA3	plexin A3 [Source:HGNC Symbol;Acc:HGNC:9101]	830	0.54	0.0678	7.9	2.2E-15	1.5E-14
ENSG00000140807	NKD1	NKD inhibitor of WNT signaling pathway 1 [Source:HGNC Symbol;Acc:HGNC:17045]	70	1.92	0.2421	7.9	2.1E-15	1.4E-14
ENSG00000118689	FOXO3	forkhead box O3 [Source:HGNC Symbol;Acc:HGNC:3821]	757	0.57	0.0718	7.9	2.1E-15	1.4E-14
ENSG00000255198	SNHG9	small nucleolar RNA host gene 9 [Source:HGNC Symbol;Acc:HGNC:33102]	205	1.15	0.1444	7.9	2.0E-15	1.3E-14
ENSG00000188039	NWD1	NACHT and WD repeat domain containing 1 [Source:HGNC Symbol;Acc:HGNC:27619]	54	6.84	0.8596	8.0	1.7E-15	1.2E-14
ENSG00000197134	ZNF257	zinc finger protein 257 [Source:HGNC Symbol;Acc:HGNC:13498]	50	2.33	0.2921	8.0	1.6E-15	1.1E-14
ENSG00000141448	GATA6	GATA binding protein 6 [Source:HGNC Symbol;Acc:HGNC:4174]	44	2.66	0.3331	8.0	1.6E-15	1.0E-14
ENSG00000069974	RAB27A	RAB27A, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9766]	261	0.97	0.1216	8.0	1.5E-15	1.0E-14
ENSG00000151136	BTBD11	BTB domain containing 11 [Source:HGNC Symbol;Acc:HGNC:23844]	61	2.15	0.2701	8.0	1.5E-15	1.0E-14
ENSG00000240342	RPS2P5	ribosomal protein S2 pseudogene 5 [Source:HGNC Symbol;Acc:HGNC:31386]	5667	0.55	0.0696	8.0	1.5E-15	1.0E-14

ENSG00000091073	DTX2	deltex E3 ubiquitin ligase 2 [Source:HGNC Symbol;Acc:HGNC:15973]	439	0.73	0.0909	8.0	1.5E-15	1.0E-14
ENSG00000107643	MAPK8	mitogen-activated protein kinase 8 [Source:HGNC Symbol;Acc:HGNC:6881]	511	0.68	0.0851	8.0	1.5E-15	9.9E-15
ENSG00000247134	ENSG00000247134	novel transcript	32	3.76	0.4709	8.0	1.4E-15	9.8E-15
ENSG00000113269	RNF130	ring finger protein 130 [Source:HGNC Symbol;Acc:HGNC:18280]	490	0.68	0.0856	8.0	1.4E-15	9.5E-15
ENSG00000250303	LINC02762	long intergenic non-protein coding RNA 2762 [Source:HGNC Symbol;Acc:HGNC:27443]	57	2.21	0.2761	8.0	1.3E-15	8.8E-15
ENSG00000137054	POLR1E	RNA polymerase I subunit E [Source:HGNC Symbol;Acc:HGNC:17631]	788	0.55	0.0692	8.0	1.3E-15	8.8E-15
ENSG00000183647	ZNF530	zinc finger protein 530 [Source:HGNC Symbol;Acc:HGNC:29297]	486	0.71	0.0883	8.0	1.1E-15	7.7E-15
ENSG00000166770	ZNF667-AS1	ZNF667 antisense RNA 1 (head to head) [Source:HGNC Symbol;Acc:HGNC:44321]	388	0.77	0.0955	8.0	1.0E-15	6.8E-15
ENSG00000250312	ZNF718	zinc finger protein 718 [Source:HGNC Symbol;Acc:HGNC:26889]	219	1.03	0.1284	8.0	9.8E-16	6.7E-15
ENSG00000102780	DGKH	diacylglycerol kinase eta [Source:HGNC Symbol;Acc:HGNC:2854]	284	0.90	0.1124	8.0	9.7E-16	6.6E-15
ENSG00000107789	MINPP1	multiple inositol-polyphosphate phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:7102]	843	0.53	0.0656	8.0	8.8E-16	6.0E-15
ENSG00000103226	NOMO3	NODAL modulator 3 [Source:HGNC Symbol;Acc:HGNC:25242]	1080	0.52	0.0641	8.1	7.6E-16	5.2E-15
ENSG00000188994	ZNF292	zinc finger protein 292 [Source:HGNC Symbol;Acc:HGNC:18410]	725	0.65	0.0809	8.1	7.3E-16	5.0E-15
ENSG00000134070	IRAK2	interleukin 1 receptor associated kinase 2 [Source:HGNC Symbol;Acc:HGNC:6113]	177	1.14	0.1410	8.1	5.7E-16	3.9E-15
ENSG00000138303	ASCC1	activating signal cointegrator 1 complex subunit 1 [Source:HGNC Symbol;Acc:HGNC:24268]	1078	0.51	0.0636	8.1	5.4E-16	3.8E-15
ENSG00000131153	GIN5	GIN5 complex subunit 2 [Source:HGNC Symbol;Acc:HGNC:24575]	711	0.63	0.0775	8.1	5.3E-16	3.7E-15
ENSG00000162065	TBC1D24	TBC1 domain family member 24 [Source:HGNC Symbol;Acc:HGNC:29203]	141	1.30	0.1597	8.1	5.1E-16	3.5E-15
ENSG00000105963	ADAP1	ArfGAP with dual PH domains 1 [Source:HGNC Symbol;Acc:HGNC:16486]	528	0.69	0.0853	8.1	5.0E-16	3.4E-15
ENSG00000152767	FARP1	FERM, ARH/RhoGEF and pleckstrin domain protein 1 [Source:HGNC Symbol;Acc:HGNC:3591]	248	0.98	0.1201	8.1	4.3E-16	3.0E-15
ENSG00000064886	CHI3L2	chitinase 3 like 2 [Source:HGNC Symbol;Acc:HGNC:1933]	112	1.51	0.1858	8.1	4.1E-16	2.9E-15
ENSG00000171451	DSEL	dermatan sulfate epimerase like [Source:HGNC Symbol;Acc:HGNC:18144]	41	3.07	0.3779	8.1	4.0E-16	2.8E-15
ENSG00000003436	TFPI	tissue factor pathway inhibitor [Source:HGNC Symbol;Acc:HGNC:11760]	611	0.65	0.0801	8.1	3.9E-16	2.7E-15
ENSG00000120896	SORBS3	sorbin and SH3 domain containing 3 [Source:HGNC Symbol;Acc:HGNC:30907]	630	0.62	0.0767	8.1	3.8E-16	2.7E-15
ENSG00000181938	GIN5	GIN5 complex subunit 3 [Source:HGNC Symbol;Acc:HGNC:25851]	269	0.96	0.1175	8.1	3.8E-16	2.6E-15
ENSG00000276547	PCDHGB5	protocadherin gamma subfamily B, 5 [Source:HGNC Symbol;Acc:HGNC:8712]	208	1.06	0.1300	8.1	3.7E-16	2.6E-15
ENSG00000188227	ZNF793	zinc finger protein 793 [Source:HGNC Symbol;Acc:HGNC:33115]	167	1.24	0.1517	8.1	3.6E-16	2.5E-15
ENSG00000151135	TMEM263	transmembrane protein 263 [Source:HGNC Symbol;Acc:HGNC:28281]	822	0.56	0.0688	8.2	3.4E-16	2.4E-15
ENSG00000197375	SLC22A5	solute carrier family 22 member 5 [Source:HGNC Symbol;Acc:HGNC:10969]	898	0.54	0.0663	8.2	3.4E-16	2.3E-15
ENSG00000183287	CCBE1	collagen and calcium binding EGF domains 1 [Source:HGNC Symbol;Acc:HGNC:29426]	40	2.95	0.3615	8.2	3.4E-16	2.3E-15
ENSG00000167394	ZNF668	zinc finger protein 668 [Source:HGNC Symbol;Acc:HGNC:25821]	169	1.19	0.1455	8.2	2.6E-16	1.9E-15
ENSG00000168286	THAP11	THAP domain containing 11 [Source:HGNC Symbol;Acc:HGNC:23194]	571	0.69	0.0841	8.2	2.5E-16	1.8E-15
ENSG00000126522	ASL	argininosuccinate lyase [Source:HGNC Symbol;Acc:HGNC:746]	573	0.66	0.0798	8.2	2.2E-16	1.5E-15
ENSG00000138386	NAB1	NGFI-A binding protein 1 [Source:HGNC Symbol;Acc:HGNC:7626]	925	0.52	0.0634	8.2	2.2E-16	1.5E-15
ENSG00000120322	PCDH8	protocadherin beta 8 [Source:HGNC Symbol;Acc:HGNC:8693]	34	4.55	0.5539	8.2	2.2E-16	1.5E-15
ENSG00000183072	NKX2-5	NK2 homeobox 5 [Source:HGNC Symbol;Acc:HGNC:2488]	300	1.04	0.1265	8.2	2.1E-16	1.5E-15
ENSG0000012983	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5 [Source:HGNC Symbol;Acc:HGNC:6867]	999	0.51	0.0624	8.2	2.0E-16	1.4E-15
ENSG00000158373	H2BC5	H2B clustered histone 5 [Source:HGNC Symbol;Acc:HGNC:4747]	326	0.87	0.1061	8.2	1.9E-16	1.4E-15
ENSG00000184635	ZNF93	zinc finger protein 93 [Source:HGNC Symbol;Acc:HGNC:13169]	115	1.48	0.1801	8.2	1.9E-16	1.3E-15
ENSG00000164182	NDUFAF2	NADH:ubiquinone oxidoreductase complex assembly factor 2 [Source:HGNC Symbol;Acc:HGNC:28086]	739	0.60	0.0730	8.2	1.9E-16	1.3E-15
ENSG00000131019	ULBP3	UL16 binding protein 3 [Source:HGNC Symbol;Acc:HGNC:14895]	166	1.20	0.1460	8.2	1.9E-16	1.3E-15
ENSG00000061938	TNK2	tyrosine kinase non receptor 2 [Source:HGNC Symbol;Acc:HGNC:19297]	773	0.59	0.0722	8.2	1.8E-16	1.2E-15
ENSG00000181894	ZNF329	zinc finger protein 329 [Source:HGNC Symbol;Acc:HGNC:14209]	366	0.81	0.0980	8.3	1.6E-16	1.1E-15

ENSG00000169826	CSGALNACT	chondroitin sulfate N-acetylgalactosaminyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:24292]	333	0.90	0.1087	8.3	1.6E-16	1.1E-15
ENSG00000006704	GTF2IRD1	GTF2I repeat domain containing 1 [Source:HGNC Symbol;Acc:HGNC:4661]	698	0.59	0.0717	8.3	1.5E-16	1.0E-15
ENSG00000103528	SYT17	synaptotagmin 17 [Source:HGNC Symbol;Acc:HGNC:24119]	556	0.68	0.0820	8.3	1.4E-16	1.0E-15
ENSG00000106605	BLVRA	biliverdin reductase A [Source:HGNC Symbol;Acc:HGNC:1062]	393	0.80	0.0968	8.3	1.4E-16	9.9E-16
ENSG00000198538	ZNF28	zinc finger protein 28 [Source:HGNC Symbol;Acc:HGNC:13073]	466	0.73	0.0882	8.3	1.3E-16	9.4E-16
ENSG00000168993	CPLX1	complexin 1 [Source:HGNC Symbol;Acc:HGNC:2309]	73	2.01	0.2431	8.3	1.3E-16	9.4E-16
ENSG0000010539	ZNF200	zinc finger protein 200 [Source:HGNC Symbol;Acc:HGNC:12993]	289	0.91	0.1106	8.3	1.3E-16	9.3E-16
ENSG00000122550	KLHL7	kelch like family member 7 [Source:HGNC Symbol;Acc:HGNC:15646]	1010	0.55	0.0659	8.3	1.3E-16	9.2E-16
ENSG00000100592	DAAM1	dishevelled associated activator of morphogenesis 1 [Source:HGNC Symbol;Acc:HGNC:18142]	999	0.50	0.0608	8.3	1.1E-16	7.9E-16
ENSG00000149925	ALDOA	aldolase, fructose-bisphosphate A [Source:HGNC Symbol;Acc:HGNC:414]	128	1.47	0.1768	8.3	1.1E-16	7.5E-16
ENSG00000185798	WDR53	WD repeat domain 53 [Source:HGNC Symbol;Acc:HGNC:28786]	500	0.70	0.0840	8.3	1.1E-16	7.5E-16
ENSG00000164744	SUN3	Sad1 and UNC84 domain containing 3 [Source:HGNC Symbol;Acc:HGNC:22429]	142	1.45	0.1745	8.3	1.0E-16	7.4E-16
ENSG00000182752	PAPPA	pappalysin 1 [Source:HGNC Symbol;Acc:HGNC:8602]	37	5.03	0.6059	8.3	1.0E-16	7.1E-16
ENSG00000164086	DUSP7	dual specificity phosphatase 7 [Source:HGNC Symbol;Acc:HGNC:3073]	580	0.67	0.0801	8.3	9.5E-17	6.8E-16
ENSG00000253910	PCDHGB2	protocadherin gamma subfamily B, 2 [Source:HGNC Symbol;Acc:HGNC:8709]	43	2.86	0.3442	8.3	9.5E-17	6.8E-16
ENSG00000133302	SLF1	SMC5-SMC6 complex localization factor 1 [Source:HGNC Symbol;Acc:HGNC:25408]	419	0.77	0.0923	8.3	9.2E-17	6.6E-16
ENSG00000237517	DGCR5	DiGeorge syndrome critical region gene 5 [Source:HGNC Symbol;Acc:HGNC:16757]	218	1.09	0.1312	8.3	8.2E-17	5.8E-16
ENSG00000226564	FTH1P20	ferritin heavy chain 1 pseudogene 20 [Source:HGNC Symbol;Acc:HGNC:37639]	345	0.88	0.1056	8.3	8.1E-17	5.8E-16
ENSG00000168404	MLKL	mixed lineage kinase domain like pseudokinase [Source:HGNC Symbol;Acc:HGNC:26617]	372	0.92	0.1099	8.3	7.9E-17	5.7E-16
ENSG00000186111	PIP5K1C	phosphatidylinositol-4-phosphate 5-kinase type 1 gamma [Source:HGNC Symbol;Acc:HGNC:8996]	563	0.71	0.0847	8.3	7.6E-17	5.5E-16
ENSG00000162062	TEDC2	tubulin epsilon and delta complex 2 [Source:HGNC Symbol;Acc:HGNC:25849]	394	0.80	0.0956	8.3	7.3E-17	5.2E-16
ENSG00000052850	ALX4	ALX homeobox 4 [Source:HGNC Symbol;Acc:HGNC:450]	69	2.07	0.2481	8.4	6.7E-17	4.8E-16
ENSG00000145919	BOD1	biorientation of chromosomes in cell division 1 [Source:HGNC Symbol;Acc:HGNC:25114]	913	0.56	0.0668	8.4	6.5E-17	4.7E-16
ENSG00000179104	TMTC2	transmembrane O-mannosyltransferase targeting cadherins 2 [Source:HGNC Symbol;Acc:HGNC:25440]	265	0.95	0.1133	8.4	6.3E-17	4.5E-16
ENSG00000180071	ANKRD18A	ankyrin repeat domain 18A [Source:HGNC Symbol;Acc:HGNC:23643]	59	2.35	0.2806	8.4	5.7E-17	4.1E-16
ENSG00000242612	DECR2	2,4-dienoyl-CoA reductase 2 [Source:HGNC Symbol;Acc:HGNC:2754]	130	1.42	0.1694	8.4	5.5E-17	4.0E-16
ENSG00000165072	MAMDC2	MAM domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23673]	254	1.05	0.1247	8.4	5.3E-17	3.8E-16
ENSG00000182393	IFNL1	interferon lambda 1 [Source:HGNC Symbol;Acc:HGNC:18363]	51	2.56	0.3043	8.4	4.5E-17	3.3E-16
ENSG00000107485	GATA3	GATA binding protein 3 [Source:HGNC Symbol;Acc:HGNC:4172]	735	0.59	0.0707	8.4	4.5E-17	3.2E-16
ENSG00000117408	IPO13	importin 13 [Source:HGNC Symbol;Acc:HGNC:16853]	825	0.55	0.0660	8.4	4.4E-17	3.2E-16
ENSG00000112276	BVES	blood vessel epicardial substance [Source:HGNC Symbol;Acc:HGNC:1152]	142	1.37	0.1630	8.4	4.4E-17	3.2E-16
ENSG0000018408	WWTR1	WW domain containing transcription regulator 1 [Source:HGNC Symbol;Acc:HGNC:24042]	939	0.55	0.0655	8.4	4.2E-17	3.1E-16
ENSG00000174099	MSRB3	methionine sulfoxide reductase B3 [Source:HGNC Symbol;Acc:HGNC:27375]	151	1.33	0.1579	8.4	4.0E-17	2.9E-16
ENSG00000006740	ARHGAP44	Rho GTPase activating protein 44 [Source:HGNC Symbol;Acc:HGNC:29096]	400	0.84	0.0994	8.4	3.7E-17	2.7E-16
ENSG00000196437	ZNF569	zinc finger protein 569 [Source:HGNC Symbol;Acc:HGNC:24737]	172	1.23	0.1456	8.4	3.4E-17	2.5E-16
ENSG00000112208	BAG2	BAG cochaperone 2 [Source:HGNC Symbol;Acc:HGNC:938]	215	1.09	0.1295	8.4	3.3E-17	2.4E-16
ENSG00000256683	ZNF350	zinc finger protein 350 [Source:HGNC Symbol;Acc:HGNC:16656]	336	0.96	0.1137	8.4	3.3E-17	2.4E-16
ENSG00000104856	RELB	RELB proto-oncogene, NF-kB subunit [Source:HGNC Symbol;Acc:HGNC:9956]	504	0.71	0.0846	8.4	3.1E-17	2.3E-16
ENSG00000082074	FYB1	FYN binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4036]	115	1.70	0.2012	8.4	3.1E-17	2.3E-16
ENSG00000185947	ZNF267	zinc finger protein 267 [Source:HGNC Symbol;Acc:HGNC:13060]	181	1.21	0.1428	8.5	2.9E-17	2.1E-16
ENSG00000115042	FAHD2A	fumarylacetoacetate hydrolase domain containing 2A [Source:HGNC Symbol;Acc:HGNC:24252]	607	0.66	0.0778	8.5	2.8E-17	2.0E-16
ENSG00000118276	B4GALT6	beta-1,4-galactosyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:929]	499	0.71	0.0838	8.5	2.7E-17	2.0E-16

ENSG00000173171	MTX1	metaxin 1 [Source:HGNC Symbol;Acc:HGNC:7504]	984	0.55	0.0654	8.5	2.6E-17	1.9E-16
ENSG00000170832	USP32	ubiquitin specific peptidase 32 [Source:HGNC Symbol;Acc:HGNC:19143]	1206	0.51	0.0603	8.5	2.5E-17	1.8E-16
ENSG00000145780	FEM1C	fem-1 homolog C [Source:HGNC Symbol;Acc:HGNC:16933]	763	0.63	0.0739	8.5	2.4E-17	1.8E-16
ENSG00000228981	ENSG00000228981	ribosomal protein S2 (RPS2) pseudogene	161	1.26	0.1491	8.5	2.4E-17	1.8E-16
ENSG00000197956	S100A6	S100 calcium binding protein A6 [Source:HGNC Symbol;Acc:HGNC:10496]	12359	0.50	0.0593	8.5	2.1E-17	1.5E-16
ENSG00000185904	LINC00839	long intergenic non-protein coding RNA 839 [Source:HGNC Symbol;Acc:HGNC:28269]	93	1.73	0.2036	8.5	2.0E-17	1.4E-16
ENSG00000164105	SAP30	Sin3A associated protein 30 [Source:HGNC Symbol;Acc:HGNC:10532]	139	1.42	0.1668	8.5	1.8E-17	1.4E-16
ENSG00000106211	HSPB1	heat shock protein family B (small) member 1 [Source:HGNC Symbol;Acc:HGNC:5246]	45445	0.85	0.1003	8.5	1.7E-17	1.3E-16
ENSG00000253953	PCDHGB4	protocadherin gamma subfamily B, 4 [Source:HGNC Symbol;Acc:HGNC:8711]	242	1.20	0.1413	8.5	1.6E-17	1.2E-16
ENSG00000112246	SIM1	SIM bHLH transcription factor 1 [Source:HGNC Symbol;Acc:HGNC:10882]	67	2.14	0.2508	8.5	1.5E-17	1.1E-16
ENSG00000168096	ANKS3	ankyrin repeat and sterile alpha motif domain containing 3 [Source:HGNC Symbol;Acc:HGNC:29422]	213	1.11	0.1299	8.5	1.5E-17	1.1E-16
ENSG00000164970	FAM219A	family with sequence similarity 219 member A [Source:HGNC Symbol;Acc:HGNC:19920]	393	0.88	0.1033	8.5	1.5E-17	1.1E-16
ENSG00000127554	GFER	growth factor, augments liver regeneration [Source:HGNC Symbol;Acc:HGNC:4236]	265	1.00	0.1166	8.5	1.3E-17	1.0E-16
ENSG00000111885	MAN1A1	mannosidase alpha class 1A member 1 [Source:HGNC Symbol;Acc:HGNC:6821]	55	2.50	0.2925	8.5	1.3E-17	9.9E-17
ENSG00000268858	ENSG00000268858	novel transcript, antisense to ABHD16B	188	1.20	0.1408	8.5	1.3E-17	9.8E-17
ENSG00000232442	MHENCRC	melanoma highly expressed competing endogenous lncRNA for miR-425 and miR-489 [Source:HGNC Symbol;Acc:HGNC:23244]	111	1.60	0.1868	8.5	1.3E-17	9.5E-17
ENSG00000176293	ZNF135	zinc finger protein 135 [Source:HGNC Symbol;Acc:HGNC:12919]	303	0.98	0.1142	8.5	1.3E-17	9.3E-17
ENSG00000169189	NSMCE1	NSE1 homolog, SMC5-SMC6 complex component [Source:HGNC Symbol;Acc:HGNC:29897]	410	0.83	0.0972	8.5	1.2E-17	9.3E-17
ENSG00000136514	RTP4	receptor transporter protein 4 [Source:HGNC Symbol;Acc:HGNC:23992]	108	1.61	0.1879	8.6	1.2E-17	8.8E-17
ENSG00000187955	COL14A1	collagen type XIV alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2191]	38	3.58	0.4170	8.6	9.5E-18	7.1E-17
ENSG00000156858	PRR14	proline rich 14 [Source:HGNC Symbol;Acc:HGNC:28458]	336	0.89	0.1037	8.6	8.1E-18	6.1E-17
ENSG00000110057	UNC93B1	unc-93 homolog B1, TLR signaling regulator [Source:HGNC Symbol;Acc:HGNC:13481]	671	0.67	0.0779	8.6	7.7E-18	5.8E-17
ENSG00000151692	RNF144A	ring finger protein 144A [Source:HGNC Symbol;Acc:HGNC:20457]	208	1.13	0.1311	8.6	7.4E-18	5.6E-17
ENSG00000151689	INPP1	inositol polyphosphate-1-phosphatase [Source:HGNC Symbol;Acc:HGNC:6071]	500	0.73	0.0842	8.6	6.3E-18	4.8E-17
ENSG00000104756	KCTD9	potassium channel tetramerization domain containing 9 [Source:HGNC Symbol;Acc:HGNC:22401]	986	0.55	0.0633	8.6	5.9E-18	4.5E-17
ENSG00000167513	CDT1	chromatin licensing and DNA replication factor 1 [Source:HGNC Symbol;Acc:HGNC:24576]	720	0.61	0.0707	8.6	5.8E-18	4.4E-17
ENSG00000080608	PUM3	pumilio RNA binding family member 3 [Source:HGNC Symbol;Acc:HGNC:29676]	1251	0.51	0.0588	8.6	5.6E-18	4.3E-17
ENSG00000152778	IFIT5	interferon induced protein with tetratricopeptide repeats 5 [Source:HGNC Symbol;Acc:HGNC:13328]	926	0.55	0.0632	8.6	5.2E-18	4.0E-17
ENSG00000099256	PRTFDC1	phosphoribosyl transferase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23333]	651	0.68	0.0782	8.7	5.0E-18	3.8E-17
ENSG00000162894	FCMR	Fc fragment of IgM receptor [Source:HGNC Symbol;Acc:HGNC:14315]	99	1.71	0.1972	8.7	4.7E-18	3.6E-17
ENSG00000174943	KCTD13	potassium channel tetramerization domain containing 13 [Source:HGNC Symbol;Acc:HGNC:22234]	303	1.00	0.1154	8.7	4.7E-18	3.6E-17
ENSG00000183688	RFLNB	refilin B [Source:HGNC Symbol;Acc:HGNC:28705]	51	2.72	0.3135	8.7	4.5E-18	3.4E-17
ENSG00000187239	FNBP1	formin binding protein 1 [Source:HGNC Symbol;Acc:HGNC:17069]	950	0.57	0.0654	8.7	4.4E-18	3.4E-17
ENSG00000131759	RARA	retinoic acid receptor alpha [Source:HGNC Symbol;Acc:HGNC:9864]	329	0.92	0.1062	8.7	4.2E-18	3.2E-17
ENSG00000171303	KCNK3	potassium two pore domain channel subfamily K member 3 [Source:HGNC Symbol;Acc:HGNC:6278]	38	3.73	0.4291	8.7	3.9E-18	3.0E-17
ENSG00000131791	PRKAB2	protein kinase AMP-activated non-catalytic subunit beta 2 [Source:HGNC Symbol;Acc:HGNC:9379]	1147	0.50	0.0580	8.7	3.9E-18	3.0E-17
ENSG00000143476	DTL	denticleless E3 ubiquitin protein ligase homolog [Source:HGNC Symbol;Acc:HGNC:30288]	820	0.58	0.0668	8.7	3.7E-18	2.8E-17
ENSG00000134590	RTL8C	retrotransposon Gag like 8C [Source:HGNC Symbol;Acc:HGNC:2569]	1174	0.50	0.0576	8.7	3.4E-18	2.6E-17
ENSG00000217094	PPIAP31	peptidylprolyl isomerase A pseudogene 31 [Source:HGNC Symbol;Acc:HGNC:44962]	397	0.86	0.0982	8.7	2.8E-18	2.1E-17
ENSG00000067798	NAV3	neuron navigator 3 [Source:HGNC Symbol;Acc:HGNC:15998]	280	1.08	0.1242	8.7	2.8E-18	2.1E-17
ENSG00000188215	DCUN1D3	defective in cullin neddylation 1 domain containing 3 [Source:HGNC Symbol;Acc:HGNC:28734]	540	0.72	0.0822	8.7	2.4E-18	1.8E-17
ENSG00000156873	PHKG2	phosphorylase kinase catalytic subunit gamma 2 [Source:HGNC Symbol;Acc:HGNC:8931]	426	0.87	0.0996	8.7	2.2E-18	1.7E-17

ENSG00000205352	PRR13	proline rich 13 [Source:HGNC Symbol;Acc:HGNC:24528]	861	0.57	0.0649	8.8	2.1E-18	1.6E-17
ENSG00000158445	KCNB1	potassium voltage-gated channel subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:6231]	912	0.58	0.0668	8.8	2.1E-18	1.6E-17
ENSG00000166073	GPR176	G protein-coupled receptor 176 [Source:HGNC Symbol;Acc:HGNC:32370]	174	1.29	0.1472	8.8	2.1E-18	1.6E-17
ENSG00000162496	DHRS3	dehydrogenase/reductase 3 [Source:HGNC Symbol;Acc:HGNC:17693]	704	0.63	0.0720	8.8	1.9E-18	1.5E-17
ENSG00000196372	ASB13	ankyrin repeat and SOCS box containing 13 [Source:HGNC Symbol;Acc:HGNC:19765]	310	0.95	0.1078	8.8	1.9E-18	1.4E-17
ENSG00000170791	CHCHD7	coiled-coil-helix-coiled-coil-helix domain containing 7 [Source:HGNC Symbol;Acc:HGNC:28314]	520	0.76	0.0871	8.8	1.8E-18	1.4E-17
ENSG00000169258	GPRIN1	G protein regulated inducer of neurite outgrowth 1 [Source:HGNC Symbol;Acc:HGNC:24835]	331	0.90	0.1025	8.8	1.8E-18	1.4E-17
ENSG00000278318	ZNF229	zinc finger protein 229 [Source:HGNC Symbol;Acc:HGNC:13022]	420	0.82	0.0930	8.8	1.6E-18	1.2E-17
ENSG00000169410	PTPN9	protein tyrosine phosphatase non-receptor type 9 [Source:HGNC Symbol;Acc:HGNC:9661]	886	0.57	0.0649	8.8	1.5E-18	1.2E-17
ENSG00000175354	PTPN2	protein tyrosine phosphatase non-receptor type 2 [Source:HGNC Symbol;Acc:HGNC:9650]	1038	0.55	0.0629	8.8	1.5E-18	1.2E-17
ENSG00000184985	SORCS2	sortilin related VPS10 domain containing receptor 2 [Source:HGNC Symbol;Acc:HGNC:16698]	194	1.21	0.1379	8.8	1.3E-18	1.0E-17
ENSG00000188677	PARVB	parvin beta [Source:HGNC Symbol;Acc:HGNC:14653]	183	1.23	0.1396	8.8	1.2E-18	9.4E-18
ENSG00000143486	EIF2D	eukaryotic translation initiation factor 2D [Source:HGNC Symbol;Acc:HGNC:6583]	1082	0.52	0.0591	8.8	1.1E-18	8.9E-18
ENSG00000117385	P3H1	prolyl 3-hydroxylase 1 [Source:HGNC Symbol;Acc:HGNC:19316]	598	0.68	0.0770	8.8	1.1E-18	8.4E-18
ENSG00000081059	TCF7	transcription factor 7 [Source:HGNC Symbol;Acc:HGNC:11639]	263	1.05	0.1185	8.8	1.1E-18	8.3E-18
ENSG00000184939	ZFP90	ZFP90 zinc finger protein [Source:HGNC Symbol;Acc:HGNC:23329]	518	0.74	0.0834	8.8	9.5E-19	7.4E-18
ENSG00000153786	ZDHHC7	zinc finger DHHC-type palmitoyltransferase 7 [Source:HGNC Symbol;Acc:HGNC:18459]	1015	0.56	0.0630	8.8	9.2E-19	7.2E-18
ENSG00000165632	TAF3	TATA-box binding protein associated factor 3 [Source:HGNC Symbol;Acc:HGNC:17303]	267	1.07	0.1213	8.9	7.8E-19	6.2E-18
ENSG00000204991	SPIRE2	spire type actin nucleation factor 2 [Source:HGNC Symbol;Acc:HGNC:30623]	214	1.20	0.1351	8.9	7.2E-19	5.7E-18
ENSG00000137760	ALKBH8	alkB homolog 8, tRNA methyltransferase [Source:HGNC Symbol;Acc:HGNC:25189]	471	0.76	0.0856	8.9	7.2E-19	5.7E-18
ENSG00000196116	TDRD7	tudor domain containing 7 [Source:HGNC Symbol;Acc:HGNC:30831]	806	0.62	0.0696	8.9	5.6E-19	4.4E-18
ENSG00000140323	DISP2	dispatched RND transporter family member 2 [Source:HGNC Symbol;Acc:HGNC:19712]	191	1.30	0.1456	8.9	5.4E-19	4.3E-18
ENSG00000197614	MFAP5	microfibril associated protein 5 [Source:HGNC Symbol;Acc:HGNC:29673]	1156	0.52	0.0582	8.9	5.2E-19	4.2E-18
ENSG00000148481	MINDY3	MINDY lysine 48 deubiquitinase 3 [Source:HGNC Symbol;Acc:HGNC:23578]	352	0.92	0.1038	8.9	5.2E-19	4.1E-18
ENSG00000165568	AKR1E2	aldo-keto reductase family 1 member E2 [Source:HGNC Symbol;Acc:HGNC:23437]	127	1.59	0.1786	8.9	4.8E-19	3.8E-18
ENSG00000187800	PEAR1	platelet endothelial aggregation receptor 1 [Source:HGNC Symbol;Acc:HGNC:33631]	40	4.30	0.4824	8.9	4.6E-19	3.6E-18
ENSG00000072163	LIMS2	LIM zinc finger domain containing 2 [Source:HGNC Symbol;Acc:HGNC:16084]	174	1.31	0.1465	8.9	4.5E-19	3.6E-18
ENSG00000170145	SIK2	salt inducible kinase 2 [Source:HGNC Symbol;Acc:HGNC:21680]	924	0.61	0.0680	8.9	4.5E-19	3.6E-18
ENSG00000107731	UNC5B	unc-5 netrin receptor B [Source:HGNC Symbol;Acc:HGNC:12568]	340	0.96	0.1073	8.9	4.5E-19	3.6E-18
ENSG00000064651	SLC12A2	solute carrier family 12 member 2 [Source:HGNC Symbol;Acc:HGNC:10911]	845	0.60	0.0676	8.9	4.4E-19	3.5E-18
ENSG00000047578	KATNIP	katanin interacting protein [Source:HGNC Symbol;Acc:HGNC:29068]	464	0.80	0.0902	8.9	4.4E-19	3.5E-18
ENSG00000111196	MAGOHB	mago homolog B, exon junction complex subunit [Source:HGNC Symbol;Acc:HGNC:25504]	765	0.62	0.0693	8.9	4.2E-19	3.3E-18
ENSG00000169184	MN1	MN1 proto-oncogene, transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:7180]	60	2.44	0.2727	8.9	4.2E-19	3.3E-18
ENSG00000084731	KIF3C	kinesin family member 3C [Source:HGNC Symbol;Acc:HGNC:6321]	367	1.02	0.1140	8.9	4.0E-19	3.2E-18
ENSG00000110013	SIAE	sialic acid acetyltransferase [Source:HGNC Symbol;Acc:HGNC:18187]	400	0.84	0.0935	8.9	3.9E-19	3.1E-18
ENSG00000177932	ZNF354C	zinc finger protein 354C [Source:HGNC Symbol;Acc:HGNC:16736]	151	1.43	0.1592	9.0	3.3E-19	2.6E-18
ENSG00000066697	MSANTD3	Myb/SANT DNA binding domain containing 3 [Source:HGNC Symbol;Acc:HGNC:23370]	638	0.67	0.0750	9.0	3.2E-19	2.6E-18
ENSG00000245680	ZNF585B	zinc finger protein 585B [Source:HGNC Symbol;Acc:HGNC:30948]	77	2.08	0.2319	9.0	3.1E-19	2.5E-18
ENSG00000183098	GPC6	glypican 6 [Source:HGNC Symbol;Acc:HGNC:4454]	41	3.74	0.4166	9.0	2.9E-19	2.3E-18
ENSG00000108771	DHX58	DExH-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:29517]	342	0.91	0.1017	9.0	2.6E-19	2.1E-18
ENSG00000059691	GATB	glutamyl-tRNA amidotransferase subunit B [Source:HGNC Symbol;Acc:HGNC:8849]	506	0.82	0.0913	9.0	2.6E-19	2.1E-18
ENSG00000188827	SLX4	SLX4 structure-specific endonuclease subunit [Source:HGNC Symbol;Acc:HGNC:23845]	458	0.81	0.0903	9.0	2.5E-19	2.0E-18

ENSG00000188130	MAPK12	mitogen-activated protein kinase 12 [Source:HGNC Symbol;Acc:HGNC:6874]	400	0.86	0.0959	9.0	2.4E-19	1.9E-18
ENSG00000173517	PEAK1	pseudopodium enriched atypical kinase 1 [Source:HGNC Symbol;Acc:HGNC:29431]	693	0.64	0.0714	9.0	2.1E-19	1.7E-18
ENSG00000187522	HSPA14	heat shock protein family A (Hsp70) member 14 [Source:HGNC Symbol;Acc:HGNC:29526]	247	1.10	0.1226	9.0	2.0E-19	1.6E-18
ENSG00000136378	ADAMTS7	ADAM metalloproteinase with thrombospondin type 1 motif 7 [Source:HGNC Symbol;Acc:HGNC:223]	128	1.54	0.1709	9.0	1.9E-19	1.6E-18
ENSG0000010270	STARD3NL	STARD3 N-terminal like [Source:HGNC Symbol;Acc:HGNC:19169]	1045	0.56	0.0625	9.0	1.8E-19	1.4E-18
ENSG00000120800	UTP20	UTP20 small subunit processome component [Source:HGNC Symbol;Acc:HGNC:17897]	1089	0.53	0.0587	9.0	1.6E-19	1.3E-18
ENSG00000103034	NDRG4	NDRG family member 4 [Source:HGNC Symbol;Acc:HGNC:14466]	325	0.95	0.1054	9.0	1.6E-19	1.3E-18
ENSG00000106399	RPA3	replication protein A3 [Source:HGNC Symbol;Acc:HGNC:10291]	1225	0.52	0.0580	9.0	1.6E-19	1.3E-18
ENSG00000172465	TCEAL1	transcription elongation factor A like 1 [Source:HGNC Symbol;Acc:HGNC:11616]	301	0.97	0.1076	9.0	1.6E-19	1.3E-18
ENSG00000179954	SSC5D	scavenger receptor cysteine rich family member with 5 domains [Source:HGNC Symbol;Acc:HGNC:2664]	49	2.98	0.3292	9.0	1.5E-19	1.2E-18
ENSG00000062582	MRPS24	mitochondrial ribosomal protein S24 [Source:HGNC Symbol;Acc:HGNC:14510]	148	1.45	0.1600	9.0	1.5E-19	1.2E-18
ENSG00000127952	STYXL1	serine/threonine/tyrosine interacting like 1 [Source:HGNC Symbol;Acc:HGNC:18165]	498	0.77	0.0849	9.1	1.3E-19	1.1E-18
ENSG00000145246	ATP10D	ATPase phospholipid transporting 10D (putative) [Source:HGNC Symbol;Acc:HGNC:13549]	636	0.70	0.0774	9.1	1.3E-19	1.1E-18
ENSG00000229809	ZNF688	zinc finger protein 688 [Source:HGNC Symbol;Acc:HGNC:30489]	165	1.40	0.1545	9.1	1.3E-19	1.1E-18
ENSG00000118515	SGK1	serum/glucocorticoid regulated kinase 1 [Source:HGNC Symbol;Acc:HGNC:10810]	404	0.90	0.0996	9.1	1.1E-19	9.1E-19
ENSG00000197763	TXNRD3	thioredoxin reductase 3 [Source:HGNC Symbol;Acc:HGNC:20667]	267	1.08	0.1186	9.1	8.2E-20	6.8E-19
ENSG00000142875	PRKACB	protein kinase cAMP-activated catalytic subunit beta [Source:HGNC Symbol;Acc:HGNC:9381]	526	0.76	0.0837	9.1	7.1E-20	5.9E-19
ENSG00000126653	NSRP1	nuclear speckle splicing regulatory protein 1 [Source:HGNC Symbol;Acc:HGNC:25305]	675	0.73	0.0801	9.1	7.1E-20	5.9E-19
ENSG00000251322	SHANK3	SH3 and multiple ankyrin repeat domains 3 [Source:HGNC Symbol;Acc:HGNC:14294]	132	1.68	0.1837	9.1	7.1E-20	5.8E-19
ENSG00000169994	MYO7B	myosin VII B [Source:HGNC Symbol;Acc:HGNC:7607]	54	2.77	0.3036	9.1	6.9E-20	5.7E-19
ENSG00000246228	CASC8	cancer susceptibility 8 [Source:HGNC Symbol;Acc:HGNC:45129]	44	4.90	0.5369	9.1	6.7E-20	5.5E-19
ENSG00000260260	SNHG19	small nucleolar RNA host gene 19 [Source:HGNC Symbol;Acc:HGNC:49574]	401	0.88	0.0963	9.1	6.6E-20	5.5E-19
ENSG00000164403	SHROOM1	shroom family member 1 [Source:HGNC Symbol;Acc:HGNC:24084]	353	0.91	0.0999	9.2	5.5E-20	4.5E-19
ENSG00000271943	ENSG000001	tropomyosin 4 (TPM4) pseudogene	145	1.53	0.1665	9.2	5.0E-20	4.1E-19
ENSG00000148450	MSRB2	methionine sulfoxide reductase B2 [Source:HGNC Symbol;Acc:HGNC:17061]	167	1.38	0.1507	9.2	4.7E-20	3.9E-19
ENSG00000165886	UBTD1	ubiquitin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25683]	1016	0.57	0.0624	9.2	4.6E-20	3.8E-19
ENSG00000198121	LPAR1	lysophosphatidic acid receptor 1 [Source:HGNC Symbol;Acc:HGNC:3166]	257	1.13	0.1234	9.2	4.1E-20	3.4E-19
ENSG00000065665	SEC61A2	SEC61 translocon subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:17702]	223	1.19	0.1292	9.2	3.1E-20	2.6E-19
ENSG00000197442	MAP3K5	mitogen-activated protein kinase kinase kinase 5 [Source:HGNC Symbol;Acc:HGNC:6857]	828	0.61	0.0664	9.2	2.9E-20	2.4E-19
ENSG00000196507	TCEAL3	transcription elongation factor A like 3 [Source:HGNC Symbol;Acc:HGNC:28247]	665	0.69	0.0747	9.2	2.9E-20	2.4E-19
ENSG00000101577	LPIN2	lipin 2 [Source:HGNC Symbol;Acc:HGNC:14450]	718	0.67	0.0724	9.2	2.8E-20	2.3E-19
ENSG00000167604	NFKBID	NFKB inhibitor delta [Source:HGNC Symbol;Acc:HGNC:15671]	314	0.99	0.1075	9.2	2.7E-20	2.3E-19
ENSG00000196155	PLEKHG4	pleckstrin homology and RhoGEF domain containing G4 [Source:HGNC Symbol;Acc:HGNC:24501]	866	0.63	0.0686	9.2	2.6E-20	2.2E-19
ENSG00000197608	ZNF841	zinc finger protein 841 [Source:HGNC Symbol;Acc:HGNC:27611]	351	0.92	0.0996	9.3	1.9E-20	1.6E-19
ENSG00000152455	SUV39H2	suppressor of variegation 3-9 homolog 2 [Source:HGNC Symbol;Acc:HGNC:17287]	419	0.84	0.0909	9.3	1.8E-20	1.5E-19
ENSG00000111817	DSE	dermatan sulfate epimerase [Source:HGNC Symbol;Acc:HGNC:21144]	905	0.59	0.0640	9.3	1.7E-20	1.4E-19
ENSG00000196967	ZNF585A	zinc finger protein 585A [Source:HGNC Symbol;Acc:HGNC:26305]	129	1.57	0.1691	9.3	1.6E-20	1.4E-19
ENSG00000189068	VSTM1	V-set and transmembrane domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29455]	54	5.83	0.6283	9.3	1.6E-20	1.4E-19
ENSG00000102967	DHODH	dihydroorotate dehydrogenase (quinone) [Source:HGNC Symbol;Acc:HGNC:2867]	649	0.70	0.0750	9.3	1.6E-20	1.3E-19
ENSG00000179271	GADD45GIP	GADD45G interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:29996]	1900	0.52	0.0558	9.3	1.5E-20	1.3E-19
ENSG00000204264	PSMB8	proteasome 20S subunit beta 8 [Source:HGNC Symbol;Acc:HGNC:9545]	944	0.59	0.0635	9.3	1.5E-20	1.2E-19
ENSG0000020577	SAMD4A	sterile alpha motif domain containing 4A [Source:HGNC Symbol;Acc:HGNC:23023]	1281	0.52	0.0557	9.3	1.4E-20	1.2E-19

ENSG00000182240	BACE2	beta-secretase 2 [Source:HGNC Symbol;Acc:HGNC:934]	1016	0.57	0.0615	9.3	1.3E-20	1.1E-19
ENSG00000064012	CASP8	caspase 8 [Source:HGNC Symbol;Acc:HGNC:1509]	796	0.65	0.0695	9.3	1.2E-20	1.1E-19
ENSG00000071051	NCK2	NCK adaptor protein 2 [Source:HGNC Symbol;Acc:HGNC:7665]	765	0.66	0.0700	9.4	8.5E-21	7.3E-20
ENSG00000164430	CGAS	cyclic GMP-AMP synthase [Source:HGNC Symbol;Acc:HGNC:21367]	282	1.12	0.1198	9.4	7.8E-21	6.7E-20
ENSG00000173917	HOXB2	homeobox B2 [Source:HGNC Symbol;Acc:HGNC:5113]	126	1.60	0.1712	9.4	7.3E-21	6.3E-20
ENSG00000133816	MICAL2	microtubule associated monooxygenase, calponin and LIM domain containing 2 [Source:HGNC Symbol;Acc:HGNC:10252]	541	0.83	0.0880	9.4	6.8E-21	5.8E-20
ENSG00000219507	FTH1P8	ferritin heavy chain 1 pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:3995]	480	0.85	0.0905	9.4	6.3E-21	5.4E-20
ENSG00000251495	PPIAP11	peptidylprolyl isomerase A pseudogene 11 [Source:HGNC Symbol;Acc:HGNC:9263]	421	0.93	0.0995	9.4	5.8E-21	4.9E-20
ENSG00000173276	ZBTB21	zinc finger and BTB domain containing 21 [Source:HGNC Symbol;Acc:HGNC:13083]	824	0.65	0.0686	9.4	3.5E-21	3.0E-20
ENSG00000105173	CCNE1	cyclin E1 [Source:HGNC Symbol;Acc:HGNC:1589]	919	0.62	0.0655	9.5	3.3E-21	2.8E-20
ENSG00000152503	TRIM36	tripartite motif containing 36 [Source:HGNC Symbol;Acc:HGNC:16280]	95	2.10	0.2225	9.5	3.3E-21	2.8E-20
ENSG00000167523	SPATA33	spermatogenesis associated 33 [Source:HGNC Symbol;Acc:HGNC:26463]	198	1.30	0.1377	9.5	3.2E-21	2.8E-20
ENSG00000134318	ROCK2	Rho associated coiled-coil containing protein kinase 2 [Source:HGNC Symbol;Acc:HGNC:10252]	1185	0.55	0.0584	9.5	3.1E-21	2.7E-20
ENSG00000105810	CDK6	cyclin dependent kinase 6 [Source:HGNC Symbol;Acc:HGNC:1777]	1325	0.53	0.0559	9.5	2.6E-21	2.3E-20
ENSG00000140939	NOL3	nucleolar protein 3 [Source:HGNC Symbol;Acc:HGNC:7869]	1003	0.58	0.0615	9.5	2.6E-21	2.2E-20
ENSG00000171488	LRRRC8C	leucine rich repeat containing 8 VRAC subunit C [Source:HGNC Symbol;Acc:HGNC:25075]	151	1.49	0.1573	9.5	2.5E-21	2.2E-20
ENSG00000151789	ZNF385D	zinc finger protein 385D [Source:HGNC Symbol;Acc:HGNC:26191]	47	4.84	0.5104	9.5	2.4E-21	2.1E-20
ENSG00000171723	GPHN	gephyrin [Source:HGNC Symbol;Acc:HGNC:15465]	289	1.09	0.1142	9.5	2.0E-21	1.8E-20
ENSG00000197302	ZNF720	zinc finger protein 720 [Source:HGNC Symbol;Acc:HGNC:26987]	154	1.48	0.1551	9.5	1.6E-21	1.4E-20
ENSG00000181192	DHTKD1	dehydrogenase E1 and transketolase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23537]	1154	0.55	0.0574	9.6	1.3E-21	1.1E-20
ENSG00000140848	CPNE2	copine 2 [Source:HGNC Symbol;Acc:HGNC:2315]	1523	0.51	0.0537	9.6	1.2E-21	1.0E-20
ENSG00000072415	MPP5	membrane palmitoylated protein 5 [Source:HGNC Symbol;Acc:HGNC:18669]	1167	0.57	0.0597	9.6	1.2E-21	1.0E-20
ENSG00000136997	MYC	MYC proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7553]	1294	0.59	0.0615	9.6	1.1E-21	9.3E-21
ENSG00000162384	CZIB	CXXC motif containing zinc binding protein [Source:HGNC Symbol;Acc:HGNC:26059]	853	0.65	0.0683	9.6	1.0E-21	9.2E-21
ENSG00000269825	ENSG00000269825	novel zinc finger protein	200	1.31	0.1373	9.6	1.0E-21	9.0E-21
ENSG00000145545	SRD5A1	steroid 5 alpha-reductase 1 [Source:HGNC Symbol;Acc:HGNC:11284]	1419	0.52	0.0540	9.6	9.2E-22	8.1E-21
ENSG00000158163	DZIP1L	DAZ interacting zinc finger protein 1 like [Source:HGNC Symbol;Acc:HGNC:26551]	149	1.51	0.1579	9.6	9.1E-22	8.0E-21
ENSG00000145832	SLC25A48	solute carrier family 25 member 48 [Source:HGNC Symbol;Acc:HGNC:30451]	55	5.62	0.5851	9.6	7.5E-22	6.6E-21
ENSG00000068079	IFI35	interferon induced protein 35 [Source:HGNC Symbol;Acc:HGNC:5399]	1419	0.57	0.0594	9.6	6.8E-22	6.0E-21
ENSG00000156011	PSD3	pleckstrin and Sec7 domain containing 3 [Source:HGNC Symbol;Acc:HGNC:19093]	231	1.22	0.1268	9.6	6.3E-22	5.6E-21
ENSG00000152422	XRCC4	X-ray repair cross complementing 4 [Source:HGNC Symbol;Acc:HGNC:12831]	372	0.93	0.0963	9.6	5.5E-22	4.9E-21
ENSG00000204860	FAM201A	family with sequence similarity 201 member A [Source:HGNC Symbol;Acc:HGNC:27239]	90	2.05	0.2122	9.6	5.4E-22	4.8E-21
ENSG00000116096	SPR	sepiapterin reductase [Source:HGNC Symbol;Acc:HGNC:11257]	1603	0.52	0.0537	9.7	4.1E-22	3.6E-21
ENSG00000151229	SLC2A13	solute carrier family 2 member 13 [Source:HGNC Symbol;Acc:HGNC:15956]	114	1.82	0.1878	9.7	3.8E-22	3.4E-21
ENSG00000196876	SCN8A	sodium voltage-gated channel alpha subunit 8 [Source:HGNC Symbol;Acc:HGNC:10596]	300	1.10	0.1131	9.7	2.8E-22	2.5E-21
ENSG00000108557	RAI1	retinoic acid induced 1 [Source:HGNC Symbol;Acc:HGNC:9834]	1706	0.51	0.0522	9.7	2.6E-22	2.3E-21
ENSG00000165806	CASP7	caspase 7 [Source:HGNC Symbol;Acc:HGNC:1508]	1121	0.57	0.0590	9.7	2.4E-22	2.1E-21
ENSG00000140854	KATNB1	katanin regulatory subunit B1 [Source:HGNC Symbol;Acc:HGNC:6217]	591	0.75	0.0767	9.7	2.1E-22	1.9E-21
ENSG00000135250	SRPK2	SRSF protein kinase 2 [Source:HGNC Symbol;Acc:HGNC:11306]	1260	0.55	0.0562	9.7	2.1E-22	1.9E-21
ENSG00000105778	AVL9	AVL9 cell migration associated [Source:HGNC Symbol;Acc:HGNC:28994]	1346	0.57	0.0589	9.7	2.1E-22	1.9E-21
ENSG00000132535	DLG4	discs large MAGUK scaffold protein 4 [Source:HGNC Symbol;Acc:HGNC:2903]	152	1.63	0.1676	9.7	1.9E-22	1.7E-21
ENSG00000136770	DNAJC1	DnaJ heat shock protein family (Hsp40) member C1 [Source:HGNC Symbol;Acc:HGNC:20090]	779	0.67	0.0687	9.7	1.9E-22	1.7E-21

ENSG00000173905	GOLIM4	golgi integral membrane protein 4 [Source:HGNC Symbol;Acc:HGNC:15448]	1451	0.59	0.0602	9.8	1.7E-22	1.6E-21
ENSG00000269834	ZNF528-AS1	ZNF528 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:51305]	147	1.55	0.1584	9.8	1.6E-22	1.4E-21
ENSG00000144591	GMPPA	GDP-mannose pyrophosphorylase A [Source:HGNC Symbol;Acc:HGNC:22923]	1306	0.54	0.0551	9.8	1.5E-22	1.4E-21
ENSG00000242498	ARPIN	actin related protein 2/3 complex inhibitor [Source:HGNC Symbol;Acc:HGNC:28782]	511	0.88	0.0892	9.8	1.0E-22	9.1E-22
ENSG00000129235	TXNDC17	thioredoxin domain containing 17 [Source:HGNC Symbol;Acc:HGNC:28218]	1442	0.62	0.0633	9.8	8.8E-23	7.9E-22
ENSG00000284024	ENSG000002	novel protein	444	0.89	0.0901	9.8	8.0E-23	7.2E-22
ENSG00000173894	CBX2	chromobox 2 [Source:HGNC Symbol;Acc:HGNC:1552]	382	0.98	0.0995	9.8	7.0E-23	6.3E-22
ENSG00000137547	MRPL15	mitochondrial ribosomal protein L15 [Source:HGNC Symbol;Acc:HGNC:14054]	1525	0.54	0.0546	9.9	6.4E-23	5.8E-22
ENSG00000103351	CLUAP1	clusterin associated protein 1 [Source:HGNC Symbol;Acc:HGNC:19009]	191	1.37	0.1388	9.9	6.1E-23	5.6E-22
ENSG00000144724	PTPRG	protein tyrosine phosphatase receptor type G [Source:HGNC Symbol;Acc:HGNC:9671]	498	0.89	0.0901	9.9	6.0E-23	5.4E-22
ENSG00000131188	PRR7	proline rich 7, synaptic [Source:HGNC Symbol;Acc:HGNC:28130]	161	1.61	0.1628	9.9	5.7E-23	5.2E-22
ENSG00000149177	PTPRJ	protein tyrosine phosphatase receptor type J [Source:HGNC Symbol;Acc:HGNC:9673]	1341	0.53	0.0541	9.9	5.7E-23	5.2E-22
ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]	2926	0.50	0.0508	9.9	5.5E-23	5.0E-22
ENSG0000050344	NFE2L3	nuclear factor, erythroid 2 like 3 [Source:HGNC Symbol;Acc:HGNC:7783]	258	1.15	0.1165	9.9	4.7E-23	4.3E-22
ENSG00000162006	MSLNL	mesothelin like [Source:HGNC Symbol;Acc:HGNC:14170]	79	6.64	0.6691	9.9	3.5E-23	3.2E-22
ENSG00000176783	RUFY1	RUN and FYVE domain containing 1 [Source:HGNC Symbol;Acc:HGNC:19760]	904	0.64	0.0644	9.9	2.7E-23	2.5E-22
ENSG00000103042	SLC38A7	solute carrier family 38 member 7 [Source:HGNC Symbol;Acc:HGNC:25582]	669	0.73	0.0732	10.0	1.9E-23	1.8E-22
ENSG00000189410	SH2D5	SH2 domain containing 5 [Source:HGNC Symbol;Acc:HGNC:28819]	92	2.18	0.2181	10.0	1.6E-23	1.5E-22
ENSG00000167695	TLCD3A	TLC domain containing 3A [Source:HGNC Symbol;Acc:HGNC:29646]	577	0.78	0.0782	10.0	1.5E-23	1.4E-22
ENSG00000154237	LRRK1	leucine rich repeat kinase 1 [Source:HGNC Symbol;Acc:HGNC:18608]	351	1.00	0.1004	10.0	1.5E-23	1.4E-22
ENSG00000509321	CRAT	carnitine O-acetyltransferase [Source:HGNC Symbol;Acc:HGNC:2342]	474	0.92	0.0919	10.0	1.4E-23	1.3E-22
ENSG00000266074	BAHCC1	BAH domain and coiled-coil containing 1 [Source:HGNC Symbol;Acc:HGNC:29279]	290	1.11	0.1112	10.0	1.4E-23	1.3E-22
ENSG00000203722	RAET1G	retinoic acid early transcript 1G [Source:HGNC Symbol;Acc:HGNC:16795]	57	3.23	0.3223	10.0	1.4E-23	1.3E-22
ENSG00000102265	TIMP1	TIMP metalloproteinase inhibitor 1 [Source:HGNC Symbol;Acc:HGNC:11820]	1033	1.90	0.1898	10.0	1.4E-23	1.3E-22
ENSG00000124313	IQSEC2	IQ motif and Sec7 domain ArfGEF 2 [Source:HGNC Symbol;Acc:HGNC:29059]	479	0.88	0.0874	10.0	1.2E-23	1.1E-22
ENSG00000197937	ZNF347	zinc finger protein 347 [Source:HGNC Symbol;Acc:HGNC:16447]	456	0.91	0.0906	10.0	1.1E-23	1.0E-22
ENSG00000106554	CHCHD3	coiled-coil-helix-coiled-coil-helix domain containing 3 [Source:HGNC Symbol;Acc:HGNC:21906]	1628	0.51	0.0508	10.1	9.2E-24	8.5E-23
ENSG00000174370	C11orf45	chromosome 11 open reading frame 45 [Source:HGNC Symbol;Acc:HGNC:28584]	265	1.16	0.1153	10.1	8.6E-24	8.0E-23
ENSG00000109689	STIM2	stromal interaction molecule 2 [Source:HGNC Symbol;Acc:HGNC:19205]	665	0.77	0.0761	10.1	8.6E-24	8.0E-23
ENSG00000063241	ISOC2	isochorismatase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:26278]	1076	0.62	0.0614	10.1	7.8E-24	7.3E-23
ENSG00000182117	NOP10	NOP10 ribonucleoprotein [Source:HGNC Symbol;Acc:HGNC:14378]	2250	0.55	0.0543	10.1	5.8E-24	5.5E-23
ENSG00000127990	SGCE	sarcoglycan epsilon [Source:HGNC Symbol;Acc:HGNC:10808]	1265	0.58	0.0577	10.1	5.5E-24	5.2E-23
ENSG00000169991	IFFO2	intermediate filament family orphan 2 [Source:HGNC Symbol;Acc:HGNC:27006]	778	0.70	0.0689	10.1	5.5E-24	5.1E-23
ENSG00000140365	COMMD4	COMM domain containing 4 [Source:HGNC Symbol;Acc:HGNC:26027]	1936	0.50	0.0498	10.1	5.0E-24	4.7E-23
ENSG00000165233	CARD19	caspase recruitment domain family member 19 [Source:HGNC Symbol;Acc:HGNC:28148]	578	0.79	0.0779	10.1	4.7E-24	4.4E-23
ENSG00000158186	MRAS	muscle RAS oncogene homolog [Source:HGNC Symbol;Acc:HGNC:7227]	568	0.80	0.0791	10.1	4.6E-24	4.4E-23
ENSG00000179085	DPM3	dolichyl-phosphate mannosyltransferase subunit 3, regulatory [Source:HGNC Symbol;Acc:HGNC:3007]	709	0.76	0.0748	10.1	4.5E-24	4.2E-23
ENSG00000137959	IFI44L	interferon induced protein 44 like [Source:HGNC Symbol;Acc:HGNC:17817]	948	0.72	0.0713	10.1	4.1E-24	3.8E-23
ENSG00000169188	APEX2	apurinic/aprimidinic endodeoxyribonuclease 2 [Source:HGNC Symbol;Acc:HGNC:17889]	1021	0.64	0.0631	10.1	3.3E-24	3.2E-23
ENSG00000135698	MPHOSPH6	M-phase phosphoprotein 6 [Source:HGNC Symbol;Acc:HGNC:7214]	286	1.15	0.1135	10.2	2.8E-24	2.7E-23
ENSG00000142892	PIGK	phosphatidylinositol glycan anchor biosynthesis class K [Source:HGNC Symbol;Acc:HGNC:8965]	975	0.63	0.0618	10.2	2.7E-24	2.6E-23
ENSG00000042286	AIFM2	apoptosis inducing factor mitochondria associated 2 [Source:HGNC Symbol;Acc:HGNC:21411]	427	0.95	0.0931	10.2	2.7E-24	2.6E-23

ENSG00000106031	HOXA13	homeobox A13 [Source:HGNC Symbol;Acc:HGNC:5102]	154	1.61	0.1582	10.2	2.3E-24	2.2E-23
ENSG00000164294	GPX8	glutathione peroxidase 8 (putative) [Source:HGNC Symbol;Acc:HGNC:33100]	463	0.90	0.0882	10.2	2.3E-24	2.1E-23
ENSG00000129925	PGAP6	post-glycosylphosphatidylinositol attachment to proteins 6 [Source:HGNC Symbol;Acc:HGNC:17205]	1267	0.57	0.0557	10.2	2.2E-24	2.1E-23
ENSG00000281398	SNHG4	small nucleolar RNA host gene 4 [Source:HGNC Symbol;Acc:HGNC:32964]	218	1.31	0.1280	10.2	2.0E-24	1.9E-23
ENSG00000153814	JAZF1	JAZF zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:28917]	228	1.32	0.1296	10.2	2.0E-24	1.9E-23
ENSG00000083093	PALB2	partner and localizer of BRCA2 [Source:HGNC Symbol;Acc:HGNC:26144]	723	0.73	0.0712	10.2	1.8E-24	1.7E-23
ENSG00000134452	FBH1	F-box DNA helicase 1 [Source:HGNC Symbol;Acc:HGNC:13620]	635	0.77	0.0751	10.2	1.4E-24	1.3E-23
ENSG00000165609	NUDT5	nudix hydrolase 5 [Source:HGNC Symbol;Acc:HGNC:8052]	655	0.77	0.0753	10.2	1.3E-24	1.2E-23
ENSG00000168101	NUDT16L1	nudix hydrolase 16 like 1 [Source:HGNC Symbol;Acc:HGNC:28154]	1032	0.64	0.0624	10.2	1.2E-24	1.2E-23
ENSG00000257335	MGAM	maltase-glucoamylase [Source:HGNC Symbol;Acc:HGNC:7043]	108	2.00	0.1944	10.3	1.0E-24	9.8E-24
ENSG00000135905	DOCK10	dedicator of cytokinesis 10 [Source:HGNC Symbol;Acc:HGNC:23479]	165	1.57	0.1527	10.3	9.5E-25	9.1E-24
ENSG00000113742	CPEB4	cytoplasmic polyadenylation element binding protein 4 [Source:HGNC Symbol;Acc:HGNC:21747]	1045	0.61	0.0593	10.3	9.5E-25	9.1E-24
ENSG00000227376	FTH1P16	ferritin heavy chain 1 pseudogene 16 [Source:HGNC Symbol;Acc:HGNC:3986]	552	0.87	0.0849	10.3	9.2E-25	8.9E-24
ENSG00000092853	CLSPN	claspin [Source:HGNC Symbol;Acc:HGNC:19715]	1173	0.62	0.0601	10.3	7.9E-25	7.6E-24
ENSG00000279806	ENSG00000279806	TEC	66	2.92	0.2832	10.3	7.5E-25	7.3E-24
ENSG00000198464	ZNF480	zinc finger protein 480 [Source:HGNC Symbol;Acc:HGNC:23305]	478	0.89	0.0864	10.3	6.9E-25	6.7E-24
ENSG00000249815	ENSG00000249815	novel transcript	53	3.91	0.3799	10.3	6.8E-25	6.6E-24
ENSG00000144063	MALL	mal, T cell differentiation protein like [Source:HGNC Symbol;Acc:HGNC:6818]	825	0.71	0.0688	10.3	6.4E-25	6.2E-24
ENSG00000148926	ADM	adrenomedullin [Source:HGNC Symbol;Acc:HGNC:259]	1398	0.54	0.0526	10.3	6.2E-25	6.0E-24
ENSG00000177700	POLR2L	RNA polymerase II, I and III subunit L [Source:HGNC Symbol;Acc:HGNC:9199]	1973	0.51	0.0497	10.3	6.0E-25	5.8E-24
ENSG00000127580	WDR24	WD repeat domain 24 [Source:HGNC Symbol;Acc:HGNC:20852]	199	1.52	0.1472	10.3	5.8E-25	5.6E-24
ENSG00000198892	SHISA4	shisa family member 4 [Source:HGNC Symbol;Acc:HGNC:27139]	429	1.05	0.1018	10.3	4.8E-25	4.6E-24
ENSG00000203950	RTL8A	retrotransposon Gag like 8A [Source:HGNC Symbol;Acc:HGNC:24514]	902	0.69	0.0670	10.3	4.4E-25	4.3E-24
ENSG00000126458	RRAS	RAS related [Source:HGNC Symbol;Acc:HGNC:10447]	1415	0.58	0.0558	10.3	4.3E-25	4.2E-24
ENSG00000007392	LUC7L	LUC7 like [Source:HGNC Symbol;Acc:HGNC:6723]	491	0.90	0.0869	10.4	4.0E-25	3.9E-24
ENSG00000126705	AHDC1	AT-hook DNA binding motif containing 1 [Source:HGNC Symbol;Acc:HGNC:25230]	1396	0.56	0.0540	10.4	3.8E-25	3.7E-24
ENSG00000184232	OAF	out at first homolog [Source:HGNC Symbol;Acc:HGNC:28752]	251	1.38	0.1332	10.4	3.2E-25	3.1E-24
ENSG00000141905	NFIC	nuclear factor I C [Source:HGNC Symbol;Acc:HGNC:7786]	842	0.86	0.0825	10.4	3.1E-25	3.0E-24
ENSG00000243156	MICAL3	microtubule associated monooxygenase, calponin and LIM domain containing 3 [Source:HGNC Symbol;Acc:HGNC:243156]	1761	0.54	0.0523	10.4	2.9E-25	2.8E-24
ENSG00000137331	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:HGNC:5392]	334	1.10	0.1054	10.4	2.2E-25	2.1E-24
ENSG00000154134	ROBO3	roundabout guidance receptor 3 [Source:HGNC Symbol;Acc:HGNC:13433]	305	1.13	0.1089	10.4	2.0E-25	2.0E-24
ENSG00000107929	LARP4B	La ribonucleoprotein 4B [Source:HGNC Symbol;Acc:HGNC:28987]	1136	0.63	0.0605	10.4	1.8E-25	1.8E-24
ENSG00000186063	AIDA	axon interactor, dorsalization associated [Source:HGNC Symbol;Acc:HGNC:25761]	1651	0.51	0.0491	10.4	1.7E-25	1.7E-24
ENSG00000104267	CA2	carbonic anhydrase 2 [Source:HGNC Symbol;Acc:HGNC:1373]	109	2.05	0.1964	10.4	1.5E-25	1.5E-24
ENSG00000158545	ZC3H18	zinc finger CCCH-type containing 18 [Source:HGNC Symbol;Acc:HGNC:25091]	1527	0.53	0.0510	10.5	1.4E-25	1.4E-24
ENSG00000123213	NLN	neurolysin [Source:HGNC Symbol;Acc:HGNC:16058]	619	0.80	0.0767	10.5	1.3E-25	1.3E-24
ENSG00000131797	CLUHP3	clustered mitochondria homolog pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:28447]	296	1.20	0.1147	10.5	1.2E-25	1.2E-24
ENSG00000162616	DNAJB4	DnaJ heat shock protein family (Hsp40) member B4 [Source:HGNC Symbol;Acc:HGNC:14886]	457	0.97	0.0925	10.5	1.2E-25	1.2E-24
ENSG00000175573	C11orf68	chromosome 11 open reading frame 68 [Source:HGNC Symbol;Acc:HGNC:28801]	1290	0.57	0.0547	10.5	1.2E-25	1.2E-24
ENSG00000140650	PMM2	phosphomannomutase 2 [Source:HGNC Symbol;Acc:HGNC:9115]	383	1.02	0.0978	10.5	1.2E-25	1.1E-24
ENSG00000197702	PARVA	parvin alpha [Source:HGNC Symbol;Acc:HGNC:14652]	662	0.78	0.0747	10.5	1.1E-25	1.1E-24
ENSG00000164620	RELL2	RELT like 2 [Source:HGNC Symbol;Acc:HGNC:26902]	278	1.22	0.1167	10.5	1.1E-25	1.1E-24

ENSG00000067141	NEO1	neogenin 1 [Source:HGNC Symbol;Acc:HGNC:7754]	812	0.75	0.0718	10.5	9.3E-26	9.2E-25
ENSG00000226328	NUP50-DT	NUP50 divergent transcript [Source:HGNC Symbol;Acc:HGNC:50502]	135	1.89	0.1801	10.5	7.9E-26	7.9E-25
ENSG00000135525	MAP7	microtubule associated protein 7 [Source:HGNC Symbol;Acc:HGNC:6869]	1320	0.57	0.0541	10.5	7.8E-26	7.8E-25
ENSG00000168056	LTPB3	latent transforming growth factor beta binding protein 3 [Source:HGNC Symbol;Acc:HGNC:6716]	1992	0.55	0.0520	10.5	7.4E-26	7.4E-25
ENSG00000184110	EIF3C	eukaryotic translation initiation factor 3 subunit C [Source:HGNC Symbol;Acc:HGNC:3279]	744	0.74	0.0700	10.5	6.9E-26	6.9E-25
ENSG00000189343	RPS2P46	ribosomal protein S2 pseudogene 46 [Source:HGNC Symbol;Acc:HGNC:35839]	394	1.06	0.1005	10.5	6.9E-26	6.9E-25
ENSG00000163697	APBB2	amyloid beta precursor protein binding family B member 2 [Source:HGNC Symbol;Acc:HGNC:582]	1583	0.56	0.0532	10.5	6.2E-26	6.2E-25
ENSG00000136854	STXBP1	syntaxin binding protein 1 [Source:HGNC Symbol;Acc:HGNC:11444]	588	0.82	0.0783	10.5	6.2E-26	6.2E-25
ENSG00000153443	UBALD1	UBA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29576]	751	0.73	0.0688	10.5	5.2E-26	5.2E-25
ENSG00000137509	PRCP	prolylcarboxypeptidase [Source:HGNC Symbol;Acc:HGNC:9344]	1162	0.64	0.0605	10.6	5.0E-26	5.0E-25
ENSG00000183570	PCBP3	poly(rC) binding protein 3 [Source:HGNC Symbol;Acc:HGNC:8651]	57	3.69	0.3495	10.6	4.6E-26	4.7E-25
ENSG00000136877	FPGS	folypolyglutamate synthase [Source:HGNC Symbol;Acc:HGNC:3824]	1072	0.70	0.0666	10.6	4.3E-26	4.4E-25
ENSG00000108091	CCDC6	coiled-coil domain containing 6 [Source:HGNC Symbol;Acc:HGNC:18782]	1052	0.66	0.0627	10.6	3.7E-26	3.8E-25
ENSG00000153066	TXNDC11	thioredoxin domain containing 11 [Source:HGNC Symbol;Acc:HGNC:28030]	1784	0.54	0.0510	10.6	2.8E-26	2.8E-25
ENSG00000164713	BRI3	brain protein I3 [Source:HGNC Symbol;Acc:HGNC:1109]	1333	0.58	0.0549	10.6	2.3E-26	2.3E-25
ENSG00000261373	VPS9D1-AS1	VPS9D1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:48915]	109	2.06	0.1939	10.6	2.0E-26	2.0E-25
ENSG00000138771	SHROOM3	shroom family member 3 [Source:HGNC Symbol;Acc:HGNC:30422]	1319	0.58	0.0544	10.6	1.9E-26	2.0E-25
ENSG00000129667	RHBDF2	rhomboid 5 homolog 2 [Source:HGNC Symbol;Acc:HGNC:20788]	305	1.25	0.1175	10.6	1.8E-26	1.8E-25
ENSG00000177675	CD163L1	CD163 molecule like 1 [Source:HGNC Symbol;Acc:HGNC:30375]	170	1.66	0.1557	10.7	1.7E-26	1.8E-25
ENSG00000100299	ARSA	arylsulfatase A [Source:HGNC Symbol;Acc:HGNC:713]	542	0.87	0.0817	10.7	1.7E-26	1.7E-25
ENSG00000166780	BMERB1	bMERB domain containing 1 [Source:HGNC Symbol;Acc:HGNC:19213]	85	2.46	0.2306	10.7	1.7E-26	1.7E-25
ENSG00000141002	TCF25	transcription factor 25 [Source:HGNC Symbol;Acc:HGNC:29181]	1230	0.59	0.0550	10.7	1.3E-26	1.3E-25
ENSG00000166128	RAB8B	RAB8B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:30273]	377	1.06	0.0996	10.7	1.2E-26	1.3E-25
ENSG00000149929	HIRIP3	HIRA interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:4917]	533	0.88	0.0823	10.7	1.2E-26	1.2E-25
ENSG00000090581	GNPTG	N-acetylglucosamine-1-phosphate transferase subunit gamma [Source:HGNC Symbol;Acc:HGNC:23026]	799	0.73	0.0679	10.7	1.1E-26	1.1E-25
ENSG00000090565	RAB11FIP3	RAB11 family interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:17224]	292	1.20	0.1123	10.7	1.1E-26	1.1E-25
ENSG00000164405	UQCRCQ	ubiquinol-cytochrome c reductase complex III subunit VII [Source:HGNC Symbol;Acc:HGNC:29594]	1395	0.67	0.0625	10.7	8.5E-27	8.7E-26
ENSG00000131015	ULBP2	UL16 binding protein 2 [Source:HGNC Symbol;Acc:HGNC:14894]	346	1.16	0.1086	10.7	8.4E-27	8.6E-26
ENSG00000071282	LMCD1	LIM and cysteine rich domains 1 [Source:HGNC Symbol;Acc:HGNC:6633]	308	1.17	0.1088	10.7	8.3E-27	8.5E-26
ENSG00000106268	NUDT1	nudix hydrolase 1 [Source:HGNC Symbol;Acc:HGNC:8048]	1675	0.56	0.0519	10.7	8.0E-27	8.2E-26
ENSG00000140691	ARMC5	armadillo repeat containing 5 [Source:HGNC Symbol;Acc:HGNC:25781]	267	1.28	0.1190	10.7	8.0E-27	8.2E-26
ENSG00000130487	KLHDC7B	kelch domain containing 7B [Source:HGNC Symbol;Acc:HGNC:25145]	252	1.29	0.1202	10.7	7.9E-27	8.1E-26
ENSG00000105137	SYDE1	synapse defective Rho GTPase homolog 1 [Source:HGNC Symbol;Acc:HGNC:25824]	439	0.99	0.0921	10.7	6.9E-27	7.1E-26
ENSG00000132429	POPCD3	popeye domain containing 3 [Source:HGNC Symbol;Acc:HGNC:17649]	100	2.33	0.2170	10.7	6.6E-27	6.8E-26
ENSG00000106591	MRPL32	mitochondrial ribosomal protein L32 [Source:HGNC Symbol;Acc:HGNC:14035]	1926	0.54	0.0503	10.7	6.1E-27	6.3E-26
ENSG00000099364	FBXL19	F-box and leucine rich repeat protein 19 [Source:HGNC Symbol;Acc:HGNC:25300]	681	0.80	0.0746	10.7	6.1E-27	6.3E-26
ENSG00000134508	CABLES1	Cdk5 and Abl enzyme substrate 1 [Source:HGNC Symbol;Acc:HGNC:25097]	648	0.80	0.0744	10.7	6.0E-27	6.2E-26
ENSG00000185697	MYBL1	MYB proto-oncogene like 1 [Source:HGNC Symbol;Acc:HGNC:7547]	648	0.85	0.0790	10.8	5.8E-27	6.0E-26
ENSG00000156853	ZNF689	zinc finger protein 689 [Source:HGNC Symbol;Acc:HGNC:25173]	220	1.46	0.1349	10.8	3.7E-27	3.8E-26
ENSG00000176953	NFATC2IP	nuclear factor of activated T cells 2 interacting protein [Source:HGNC Symbol;Acc:HGNC:25906]	827	0.73	0.0680	10.8	3.5E-27	3.6E-26
ENSG00000127585	FBXL16	F-box and leucine rich repeat protein 16 [Source:HGNC Symbol;Acc:HGNC:14150]	84	2.60	0.2406	10.8	3.5E-27	3.6E-26
ENSG00000132359	RAP1GAP2	RAP1 GTPase activating protein 2 [Source:HGNC Symbol;Acc:HGNC:29176]	1306	0.60	0.0551	10.8	3.1E-27	3.2E-26

ENSG00000160712	IL6R	interleukin 6 receptor [Source:HGNC Symbol;Acc:HGNC:6019]	289	1.24	0.1145	10.8	2.4E-27	2.5E-26
ENSG00000103152	MPG	N-methylpurine DNA glycosylase [Source:HGNC Symbol;Acc:HGNC:7211]	322	1.15	0.1061	10.8	2.3E-27	2.4E-26
ENSG00000175048	ZDHHC14	zinc finger DHHC-type palmitoyltransferase 14 [Source:HGNC Symbol;Acc:HGNC:20341]	130	1.88	0.1737	10.8	2.3E-27	2.4E-26
ENSG00000141012	GALNS	galactosamine (N-acetyl)-6-sulfatase [Source:HGNC Symbol;Acc:HGNC:4122]	917	0.73	0.0675	10.8	2.1E-27	2.2E-26
ENSG00000103126	AXIN1	axin 1 [Source:HGNC Symbol;Acc:HGNC:903]	598	0.86	0.0794	10.8	2.1E-27	2.1E-26
ENSG00000051596	THOC3	THO complex 3 [Source:HGNC Symbol;Acc:HGNC:19072]	1384	0.59	0.0540	10.9	1.9E-27	2.0E-26
ENSG00000113621	TXNDC15	thioredoxin domain containing 15 [Source:HGNC Symbol;Acc:HGNC:20652]	965	0.71	0.0653	10.9	1.8E-27	1.8E-26
ENSG00000123992	DNPEP	aspartyl aminopeptidase [Source:HGNC Symbol;Acc:HGNC:2981]	1789	0.55	0.0505	10.9	1.7E-27	1.8E-26
ENSG00000136002	ARHGEF4	Rho guanine nucleotide exchange factor 4 [Source:HGNC Symbol;Acc:HGNC:684]	324	1.17	0.1072	10.9	1.5E-27	1.5E-26
ENSG00000109814	UGDH	UDP-glucose 6-dehydrogenase [Source:HGNC Symbol;Acc:HGNC:12525]	708	0.82	0.0752	10.9	1.2E-27	1.2E-26
ENSG00000146066	HIGD2A	HIG1 hypoxia inducible domain family member 2A [Source:HGNC Symbol;Acc:HGNC:28311]	432	1.00	0.0916	10.9	1.1E-27	1.2E-26
ENSG00000065308	TRAM2	translocation associated membrane protein 2 [Source:HGNC Symbol;Acc:HGNC:16855]	1774	0.56	0.0512	10.9	1.1E-27	1.1E-26
ENSG00000162073	PAQR4	progesterin and adipoQ receptor family member 4 [Source:HGNC Symbol;Acc:HGNC:26386]	243	1.35	0.1238	10.9	1.1E-27	1.1E-26
ENSG00000184743	ATL3	atlastin GTPase 3 [Source:HGNC Symbol;Acc:HGNC:24526]	1468	0.55	0.0508	10.9	1.0E-27	1.1E-26
ENSG00000272047	GTF2H5	general transcription factor IIH subunit 5 [Source:HGNC Symbol;Acc:HGNC:21157]	1115	0.64	0.0581	10.9	8.1E-28	8.5E-27
ENSG00000065923	SLC9A7	solute carrier family 9 member A7 [Source:HGNC Symbol;Acc:HGNC:17123]	403	1.08	0.0988	10.9	7.7E-28	8.2E-27
ENSG00000125347	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:HGNC:6116]	510	0.92	0.0841	10.9	7.3E-28	7.7E-27
ENSG00000225383	SFTA1P	surfactant associated 1, lncRNA [Source:HGNC Symbol;Acc:HGNC:18383]	74	2.97	0.2711	10.9	7.0E-28	7.4E-27
ENSG00000127124	HIVEP3	HIVEP zinc finger 3 [Source:HGNC Symbol;Acc:HGNC:13561]	143	1.85	0.1684	11.0	5.6E-28	6.0E-27
ENSG00000155508	CNOT8	CCR4-NOT transcription complex subunit 8 [Source:HGNC Symbol;Acc:HGNC:9207]	1235	0.60	0.0547	11.0	5.6E-28	6.0E-27
ENSG00000250697	ENSG00000250697	novel transcript	98	6.69	0.6097	11.0	5.4E-28	5.7E-27
ENSG00000060558	GNA15	G protein subunit alpha 15 [Source:HGNC Symbol;Acc:HGNC:4383]	115	2.22	0.2021	11.0	4.6E-28	4.9E-27
ENSG00000222041	CYTOR	cytoskeleton regulator RNA [Source:HGNC Symbol;Acc:HGNC:28717]	481	0.97	0.0885	11.0	4.2E-28	4.5E-27
ENSG00000184979	USP18	ubiquitin specific peptidase 18 [Source:HGNC Symbol;Acc:HGNC:12616]	1257	0.65	0.0591	11.0	4.0E-28	4.3E-27
ENSG00000154102	C16orf74	chromosome 16 open reading frame 74 [Source:HGNC Symbol;Acc:HGNC:23362]	131	1.93	0.1752	11.0	3.9E-28	4.1E-27
ENSG00000135083	CCNJL	cyclin J like [Source:HGNC Symbol;Acc:HGNC:25876]	401	1.03	0.0937	11.0	3.5E-28	3.8E-27
ENSG00000008282	SYPL1	synaptophysin like 1 [Source:HGNC Symbol;Acc:HGNC:11507]	1522	0.58	0.0530	11.0	3.3E-28	3.6E-27
ENSG00000134326	CMPK2	cytidine/uridine monophosphate kinase 2 [Source:HGNC Symbol;Acc:HGNC:27015]	569	0.97	0.0885	11.0	3.3E-28	3.6E-27
ENSG00000258405	ZNF578	zinc finger protein 578 [Source:HGNC Symbol;Acc:HGNC:26449]	81	2.65	0.2410	11.0	3.3E-28	3.5E-27
ENSG00000104907	TRMT1	tRNA methyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:25980]	1181	0.63	0.0573	11.0	2.8E-28	3.0E-27
ENSG00000006194	ZNF263	zinc finger protein 263 [Source:HGNC Symbol;Acc:HGNC:13056]	631	0.86	0.0782	11.0	2.4E-28	2.6E-27
ENSG00000164520	RAET1E	retinoic acid early transcript 1E [Source:HGNC Symbol;Acc:HGNC:16793]	66	3.50	0.3172	11.0	2.3E-28	2.5E-27
ENSG00000221890	NPTXR	neuronal pentraxin receptor [Source:HGNC Symbol;Acc:HGNC:7954]	837	0.76	0.0690	11.1	1.8E-28	2.0E-27
ENSG00000115648	MLPH	melanophilin [Source:HGNC Symbol;Acc:HGNC:29643]	120	2.12	0.1915	11.1	1.4E-28	1.6E-27
ENSG00000115355	CCDC88A	coiled-coil domain containing 88A [Source:HGNC Symbol;Acc:HGNC:25523]	217	1.53	0.1377	11.1	1.4E-28	1.6E-27
ENSG00000108819	PPP1R9B	protein phosphatase 1 regulatory subunit 9B [Source:HGNC Symbol;Acc:HGNC:9298]	1446	0.60	0.0537	11.1	1.4E-28	1.5E-27
ENSG00000241316	SUCLG2-AS1	SUCLG2 antisense RNA 1 (head to head) [Source:HGNC Symbol;Acc:HGNC:49643]	108	2.29	0.2062	11.1	1.4E-28	1.5E-27
ENSG00000170425	ADORA2B	adenosine A2b receptor [Source:HGNC Symbol;Acc:HGNC:264]	699	0.80	0.0719	11.1	1.3E-28	1.4E-27
ENSG00000137878	GCOM1	GRINL1A complex locus 1 [Source:HGNC Symbol;Acc:HGNC:26424]	81	2.86	0.2575	11.1	1.0E-28	1.1E-27
ENSG00000197912	SPG7	SPG7 matrix AAA peptidase subunit, paraplegin [Source:HGNC Symbol;Acc:HGNC:11237]	1357	0.59	0.0531	11.1	9.0E-29	9.8E-28
ENSG00000174109	C16orf91	chromosome 16 open reading frame 91 [Source:HGNC Symbol;Acc:HGNC:27558]	380	1.16	0.1036	11.2	7.1E-29	7.7E-28
ENSG00000172663	TMEM134	transmembrane protein 134 [Source:HGNC Symbol;Acc:HGNC:26142]	714	0.80	0.0716	11.2	6.1E-29	6.7E-28

ENSG00000154118	JPH3	junctophilin 3 [Source:HGNC Symbol;Acc:HGNC:14203]	382	1.11	0.0989	11.2	5.6E-29	6.1E-28
ENSG00000187231	SESTD1	SEC14 and spectrin domain containing 1 [Source:HGNC Symbol;Acc:HGNC:18379]	263	1.34	0.1200	11.2	5.6E-29	6.1E-28
ENSG00000128829	EIF2AK4	eukaryotic translation initiation factor 2 alpha kinase 4 [Source:HGNC Symbol;Acc:HGNC:19687]	1086	0.66	0.0589	11.2	5.5E-29	6.1E-28
ENSG00000179833	SERTAD2	SERTA domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30784]	1860	0.54	0.0483	11.2	5.3E-29	5.8E-28
ENSG00000113716	HMGXB3	HMG-box containing 3 [Source:HGNC Symbol;Acc:HGNC:28982]	1686	0.57	0.0507	11.2	5.0E-29	5.4E-28
ENSG00000005700	IBTK	inhibitor of Bruton tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:17853]	701	0.86	0.0767	11.2	4.9E-29	5.4E-28
ENSG00000244026	FAM86DP	family with sequence similarity 86 member D, pseudogene [Source:HGNC Symbol;Acc:HGNC:32659]	322	1.23	0.1104	11.2	4.9E-29	5.4E-28
ENSG00000198729	PPP1R14C	protein phosphatase 1 regulatory inhibitor subunit 14C [Source:HGNC Symbol;Acc:HGNC:14952]	940	0.71	0.0635	11.2	3.9E-29	4.4E-28
ENSG00000176697	BDNF	brain derived neurotrophic factor [Source:HGNC Symbol;Acc:HGNC:1033]	203	1.58	0.1406	11.2	3.8E-29	4.2E-28
ENSG00000110395	CBL	Cbl proto-oncogene [Source:HGNC Symbol;Acc:HGNC:1541]	1109	0.68	0.0606	11.2	3.7E-29	4.1E-28
ENSG00000128951	DUT	deoxyuridine triphosphatase [Source:HGNC Symbol;Acc:HGNC:3078]	2091	0.54	0.0480	11.2	3.5E-29	3.8E-28
ENSG00000163840	DTX3L	deltex E3 ubiquitin ligase 3L [Source:HGNC Symbol;Acc:HGNC:30323]	1797	0.56	0.0502	11.2	2.3E-29	2.6E-28
ENSG00000113594	LIFR	LIF receptor subunit alpha [Source:HGNC Symbol;Acc:HGNC:6597]	155	1.79	0.1586	11.3	1.6E-29	1.8E-28
ENSG00000070770	CSNK2A2	casein kinase 2 alpha 2 [Source:HGNC Symbol;Acc:HGNC:2459]	1144	0.73	0.0646	11.3	1.4E-29	1.5E-28
ENSG00000120306	CYSTM1	cysteine rich transmembrane module containing 1 [Source:HGNC Symbol;Acc:HGNC:30239]	1040	0.72	0.0639	11.3	1.1E-29	1.3E-28
ENSG00000128342	LIF	LIF interleukin 6 family cytokine [Source:HGNC Symbol;Acc:HGNC:6596]	179	1.79	0.1582	11.3	9.3E-30	1.0E-28
ENSG00000142632	ARHGEF19	Rho guanine nucleotide exchange factor 19 [Source:HGNC Symbol;Acc:HGNC:26604]	71	3.40	0.2990	11.4	5.4E-30	6.1E-29
ENSG00000147224	PRPS1	phosphoribosyl pyrophosphate synthetase 1 [Source:HGNC Symbol;Acc:HGNC:9462]	1910	0.53	0.0465	11.4	5.2E-30	5.8E-29
ENSG00000164236	ANKRD33B	ankyrin repeat domain 33B [Source:HGNC Symbol;Acc:HGNC:35240]	318	1.21	0.1063	11.4	4.9E-30	5.5E-29
ENSG00000173327	MAP3K11	mitogen-activated protein kinase kinase kinase 11 [Source:HGNC Symbol;Acc:HGNC:6850]	2158	0.54	0.0472	11.4	4.3E-30	4.9E-29
ENSG00000126524	SBDS	SBDS ribosome maturation factor [Source:HGNC Symbol;Acc:HGNC:19440]	1899	0.52	0.0457	11.4	3.8E-30	4.3E-29
ENSG00000165272	AQP3	aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:HGNC:636]	420	1.07	0.0939	11.4	3.2E-30	3.6E-29
ENSG00000230615	ENSG00000230615	novel transcript	64	4.30	0.3763	11.4	3.0E-30	3.4E-29
ENSG00000053254	FOXN3	forkhead box N3 [Source:HGNC Symbol;Acc:HGNC:1928]	190	1.61	0.1401	11.5	2.2E-30	2.5E-29
ENSG00000169914	OTUD3	OTU deubiquitinase 3 [Source:HGNC Symbol;Acc:HGNC:29038]	639	0.87	0.0758	11.5	2.1E-30	2.4E-29
ENSG00000128626	MRPS12	mitochondrial ribosomal protein S12 [Source:HGNC Symbol;Acc:HGNC:10380]	1158	0.70	0.0608	11.5	2.1E-30	2.4E-29
ENSG00000174749	FAM241A	family with sequence similarity 241 member A [Source:HGNC Symbol;Acc:HGNC:26813]	622	0.99	0.0860	11.5	1.2E-30	1.4E-29
ENSG00000117069	ST6GALNAC3	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:19342]	134	1.98	0.1716	11.5	1.1E-30	1.2E-29
ENSG00000173706	HEG1	heart development protein with EGF like domains 1 [Source:HGNC Symbol;Acc:HGNC:29227]	966	0.77	0.0666	11.5	9.0E-31	1.0E-29
ENSG00000143418	CERS2	ceramide synthase 2 [Source:HGNC Symbol;Acc:HGNC:14076]	1380	0.61	0.0530	11.6	7.3E-31	8.5E-30
ENSG00000187741	FANCA	FA complementation group A [Source:HGNC Symbol;Acc:HGNC:3582]	608	0.90	0.0776	11.6	5.9E-31	6.8E-30
ENSG00000240065	PSMB9	proteasome 20S subunit beta 9 [Source:HGNC Symbol;Acc:HGNC:9546]	875	0.78	0.0675	11.6	5.5E-31	6.4E-30
ENSG00000103174	NAGPA	N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase [Source:HGNC Symbol;Acc:HGNC:20043]	327	1.25	0.1077	11.6	5.3E-31	6.1E-30
ENSG00000082516	GEMIN5	gem nuclear organelle associated protein 5 [Source:HGNC Symbol;Acc:HGNC:20043]	1081	0.75	0.0647	11.6	4.9E-31	5.7E-30
ENSG00000125744	RTN2	reticulon 2 [Source:HGNC Symbol;Acc:HGNC:10468]	171	1.74	0.1500	11.6	4.9E-31	5.7E-30
ENSG00000058729	RIOK2	RIO kinase 2 [Source:HGNC Symbol;Acc:HGNC:18999]	519	0.97	0.0840	11.6	4.2E-31	4.9E-30
ENSG00000118564	FBXL5	F-box and leucine rich repeat protein 5 [Source:HGNC Symbol;Acc:HGNC:13602]	1096	0.69	0.0593	11.6	4.2E-31	4.9E-30
ENSG00000102908	NFAT5	nuclear factor of activated T cells 5 [Source:HGNC Symbol;Acc:HGNC:7774]	1137	0.67	0.0580	11.6	3.8E-31	4.4E-30
ENSG00000168874	ATOX1	atonal bHLH transcription factor 8 [Source:HGNC Symbol;Acc:HGNC:24126]	122	2.25	0.1937	11.6	3.5E-31	4.0E-30
ENSG00000161642	ZNF385A	zinc finger protein 385A [Source:HGNC Symbol;Acc:HGNC:17521]	621	0.95	0.0819	11.6	3.3E-31	3.8E-30
ENSG00000204949	FAM83A-AS1	FAM83A antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:48658]	70	4.19	0.3596	11.6	2.5E-31	2.9E-30
ENSG00000160818	GPATCH4	G-patch domain containing 4 [Source:HGNC Symbol;Acc:HGNC:25982]	1628	0.57	0.0486	11.6	2.4E-31	2.8E-30

ENSG00000225648	SBDSP1	SBDS pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:21646]	718	0.83	0.0708	11.7	2.1E-31	2.5E-30
ENSG00000114767	RRP9	ribosomal RNA processing 9, U3 small nucleolar RNA binding protein [Source:HGNC Symbol;Acc:HGNC:1	1216	0.68	0.0581	11.7	1.6E-31	1.9E-30
ENSG00000171889	MIR31HG	MIR31 host gene [Source:HGNC Symbol;Acc:HGNC:37187]	204	1.60	0.1371	11.7	1.5E-31	1.8E-30
ENSG00000168461	RAB31	RAB31, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9771]	802	0.84	0.0719	11.7	1.4E-31	1.7E-30
ENSG00000167657	DAPK3	death associated protein kinase 3 [Source:HGNC Symbol;Acc:HGNC:2676]	1505	0.60	0.0511	11.7	1.2E-31	1.4E-30
ENSG00000157350	ST3GAL2	ST3 beta-galactoside alpha-2,3-sialyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:10863]	452	1.08	0.0921	11.7	1.2E-31	1.4E-30
ENSG00000140464	PML	PML nuclear body scaffold [Source:HGNC Symbol;Acc:HGNC:9113]	1061	0.72	0.0613	11.7	7.8E-32	9.2E-31
ENSG00000124496	TRERF1	transcriptional regulating factor 1 [Source:HGNC Symbol;Acc:HGNC:18273]	243	1.46	0.1239	11.7	7.4E-32	8.8E-31
ENSG00000151461	UPF2	UPF2 regulator of nonsense mediated mRNA decay [Source:HGNC Symbol;Acc:HGNC:17854]	843	0.78	0.0661	11.8	6.8E-32	8.1E-31
ENSG00000144711	IQSEC1	IQ motif and Sec7 domain ArfGEF 1 [Source:HGNC Symbol;Acc:HGNC:29112]	1008	0.73	0.0620	11.8	6.4E-32	7.6E-31
ENSG00000141101	NOB1	NIN1 (RPN12) binding protein 1 homolog [Source:HGNC Symbol;Acc:HGNC:29540]	1741	0.57	0.0487	11.8	6.3E-32	7.5E-31
ENSG00000165661	QSOX2	quiescin sulfhydryl oxidase 2 [Source:HGNC Symbol;Acc:HGNC:30249]	1715	0.61	0.0516	11.8	6.2E-32	7.4E-31
ENSG00000198853	RUSC2	RUN and SH3 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:23625]	1322	0.64	0.0545	11.8	4.9E-32	5.9E-31
ENSG00000104324	CPQ	carboxypeptidase Q [Source:HGNC Symbol;Acc:HGNC:16910]	85	2.87	0.2437	11.8	4.8E-32	5.7E-31
ENSG00000137038	DMAC1	distal membrane arm assembly complex 1 [Source:HGNC Symbol;Acc:HGNC:30536]	990	0.80	0.0676	11.8	4.1E-32	4.9E-31
ENSG00000095397	WHRN	whirlin [Source:HGNC Symbol;Acc:HGNC:16361]	526	0.99	0.0836	11.8	3.9E-32	4.7E-31
ENSG00000143147	GPR161	G protein-coupled receptor 161 [Source:HGNC Symbol;Acc:HGNC:23694]	304	1.29	0.1095	11.8	3.7E-32	4.5E-31
ENSG00000226686	LINC01535	long intergenic non-protein coding RNA 1535 [Source:HGNC Symbol;Acc:HGNC:51282]	71	4.43	0.3751	11.8	3.7E-32	4.4E-31
ENSG00000173621	LRFN4	leucine rich repeat and fibronectin type III domain containing 4 [Source:HGNC Symbol;Acc:HGNC:28456]	536	1.01	0.0850	11.9	2.1E-32	2.5E-31
ENSG00000103429	BFAR	bifunctional apoptosis regulator [Source:HGNC Symbol;Acc:HGNC:17613]	1654	0.63	0.0533	11.9	2.1E-32	2.5E-31
ENSG00000140718	FTO	FTO alpha-ketoglutarate dependent dioxygenase [Source:HGNC Symbol;Acc:HGNC:24678]	659	0.93	0.0783	11.9	1.7E-32	2.1E-31
ENSG00000119969	HELLS	helicase, lymphoid specific [Source:HGNC Symbol;Acc:HGNC:4861]	879	0.77	0.0646	11.9	1.7E-32	2.1E-31
ENSG00000167977	KCTD5	potassium channel tetramerization domain containing 5 [Source:HGNC Symbol;Acc:HGNC:21423]	1112	0.69	0.0585	11.9	1.6E-32	1.9E-31
ENSG00000227345	PARG	poly(ADP-ribose) glycohydrolase [Source:HGNC Symbol;Acc:HGNC:8605]	491	1.03	0.0871	11.9	1.6E-32	1.9E-31
ENSG00000197249	SERPINA1	serpin family A member 1 [Source:HGNC Symbol;Acc:HGNC:8941]	80	3.33	0.2802	11.9	1.5E-32	1.8E-31
ENSG00000140688	RUSF1	RUS family member 1 [Source:HGNC Symbol;Acc:HGNC:25848]	798	0.82	0.0691	11.9	1.4E-32	1.7E-31
ENSG00000275216	ENSG000002	novel transcript	1783	0.60	0.0508	11.9	1.4E-32	1.7E-31
ENSG00000101365	IDH3B	isocitrate dehydrogenase (NAD(+)) 3 non-catalytic subunit beta [Source:HGNC Symbol;Acc:HGNC:5385]	3707	0.51	0.0425	11.9	1.3E-32	1.6E-31
ENSG00000113194	FAF2	Fas associated factor family member 2 [Source:HGNC Symbol;Acc:HGNC:24666]	2578	0.55	0.0463	11.9	1.2E-32	1.5E-31
ENSG00000276850	ENSG000002	novel transcript	771	0.83	0.0701	11.9	1.2E-32	1.5E-31
ENSG00000139641	ESYT1	extended synaptotagmin 1 [Source:HGNC Symbol;Acc:HGNC:29534]	2259	0.51	0.0430	11.9	1.0E-32	1.3E-31
ENSG00000171132	PRKCE	protein kinase C epsilon [Source:HGNC Symbol;Acc:HGNC:9401]	346	1.23	0.1035	11.9	8.9E-33	1.1E-31
ENSG00000167693	NXN	nucleoredoxin [Source:HGNC Symbol;Acc:HGNC:18008]	2320	0.52	0.0432	11.9	7.1E-33	8.7E-32
ENSG00000187608	ISG15	ISG15 ubiquitin like modifier [Source:HGNC Symbol;Acc:HGNC:4053]	7129	0.95	0.0793	12.0	6.4E-33	7.8E-32
ENSG00000106571	GLI3	GLI family zinc finger 3 [Source:HGNC Symbol;Acc:HGNC:4319]	491	1.03	0.0858	12.0	4.9E-33	6.0E-32
ENSG00000101558	VAPA	VAMP associated protein A [Source:HGNC Symbol;Acc:HGNC:12648]	3614	0.53	0.0440	12.0	4.8E-33	6.0E-32
ENSG00000238266	LINC00707	long intergenic non-protein coding RNA 707 [Source:HGNC Symbol;Acc:HGNC:44691]	100	2.73	0.2278	12.0	4.7E-33	5.8E-32
ENSG00000157045	NTAN1	N-terminal asparagine amidase [Source:HGNC Symbol;Acc:HGNC:29909]	474	1.08	0.0904	12.0	4.6E-33	5.7E-32
ENSG00000196639	HRH1	histamine receptor H1 [Source:HGNC Symbol;Acc:HGNC:5182]	228	1.58	0.1315	12.0	3.6E-33	4.4E-32
ENSG00000127129	EDN2	endothelin 2 [Source:HGNC Symbol;Acc:HGNC:3177]	77	3.45	0.2872	12.0	3.6E-33	4.4E-32
ENSG00000166452	AKIP1	A-kinase interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:1170]	614	0.92	0.0767	12.0	3.1E-33	3.9E-32
ENSG00000197182	MIRLET7BH	MIRLET7B host gene [Source:HGNC Symbol;Acc:HGNC:37189]	79	3.42	0.2850	12.0	3.0E-33	3.8E-32

ENSG00000204175	GPRIN2	G protein regulated inducer of neurite outgrowth 2 [Source:HGNC Symbol;Acc:HGNC:23730]	231	1.58	0.1312	12.0	2.9E-33	3.6E-32
ENSG00000185386	MAPK11	mitogen-activated protein kinase 11 [Source:HGNC Symbol;Acc:HGNC:6873]	691	0.89	0.0740	12.0	2.7E-33	3.3E-32
ENSG00000148426	PROSER2	proline and serine rich 2 [Source:HGNC Symbol;Acc:HGNC:23728]	348	1.22	0.1012	12.0	2.6E-33	3.3E-32
ENSG00000221923	ZNF880	zinc finger protein 880 [Source:HGNC Symbol;Acc:HGNC:37249]	278	1.46	0.1214	12.1	1.9E-33	2.4E-32
ENSG00000157557	ETS2	ETS proto-oncogene 2, transcription factor [Source:HGNC Symbol;Acc:HGNC:3489]	2112	0.56	0.0464	12.1	1.0E-33	1.3E-32
ENSG00000110104	CCDC86	coiled-coil domain containing 86 [Source:HGNC Symbol;Acc:HGNC:28359]	1424	0.63	0.0519	12.1	9.9E-34	1.2E-32
ENSG00000052749	RRP12	ribosomal RNA processing 12 homolog [Source:HGNC Symbol;Acc:HGNC:29100]	1930	0.56	0.0461	12.1	9.9E-34	1.2E-32
ENSG00000125354	SEPTIN6	septin 6 [Source:HGNC Symbol;Acc:HGNC:15848]	797	0.82	0.0675	12.1	9.8E-34	1.2E-32
ENSG00000113369	ARRDC3	arrestin domain containing 3 [Source:HGNC Symbol;Acc:HGNC:29263]	950	0.82	0.0674	12.1	9.3E-34	1.2E-32
ENSG00000133216	EPHB2	EPH receptor B2 [Source:HGNC Symbol;Acc:HGNC:3393]	670	0.91	0.0752	12.1	9.3E-34	1.2E-32
ENSG00000182179	UBA7	ubiquitin like modifier activating enzyme 7 [Source:HGNC Symbol;Acc:HGNC:12471]	374	1.20	0.0986	12.1	7.9E-34	1.0E-32
ENSG00000099381	SETD1A	SET domain containing 1A, histone lysine methyltransferase [Source:HGNC Symbol;Acc:HGNC:29010]	858	0.80	0.0659	12.1	6.2E-34	7.8E-33
ENSG00000166897	ELFN2	extracellular leucine rich repeat and fibronectin type III domain containing 2 [Source:HGNC Symbol;Acc:HGNC:25393]	125	2.39	0.1966	12.2	5.6E-34	7.1E-33
ENSG00000240225	ZNF542P	zinc finger protein 542, pseudogene [Source:HGNC Symbol;Acc:HGNC:25393]	372	1.21	0.0994	12.2	4.4E-34	5.6E-33
ENSG00000022267	FHL1	four and a half LIM domains 1 [Source:HGNC Symbol;Acc:HGNC:3702]	303	1.42	0.1165	12.2	2.3E-34	3.0E-33
ENSG00000103249	CLCN7	chloride voltage-gated channel 7 [Source:HGNC Symbol;Acc:HGNC:2025]	945	0.80	0.0651	12.2	2.1E-34	2.7E-33
ENSG00000103245	CIAO3	cytosolic iron-sulfur assembly component 3 [Source:HGNC Symbol;Acc:HGNC:14179]	508	1.12	0.0919	12.2	2.0E-34	2.5E-33
ENSG00000101333	PLCB4	phospholipase C beta 4 [Source:HGNC Symbol;Acc:HGNC:9059]	96	5.92	0.4834	12.2	1.8E-34	2.3E-33
ENSG00000085721	RRN3	RRN3 homolog, RNA polymerase I transcription factor [Source:HGNC Symbol;Acc:HGNC:30346]	1643	0.62	0.0503	12.3	1.5E-34	1.9E-33
ENSG00000162076	FLYWCH2	FLYWCH family member 2 [Source:HGNC Symbol;Acc:HGNC:25178]	359	1.33	0.1083	12.3	1.1E-34	1.4E-33
ENSG00000169592	INO80E	INO80 complex subunit E [Source:HGNC Symbol;Acc:HGNC:26905]	534	1.05	0.0850	12.3	9.4E-35	1.2E-33
ENSG00000168487	BMP1	bone morphogenetic protein 1 [Source:HGNC Symbol;Acc:HGNC:1067]	1523	0.67	0.0548	12.3	9.1E-35	1.2E-33
ENSG00000144583	MARCHF4	membrane associated ring-CH-type finger 4 [Source:HGNC Symbol;Acc:HGNC:29269]	91	3.18	0.2581	12.3	7.9E-35	1.0E-33
ENSG00000038532	CLEC16A	C-type lectin domain containing 16A [Source:HGNC Symbol;Acc:HGNC:29013]	511	1.04	0.0840	12.3	6.8E-35	8.7E-34
ENSG00000122691	TWIST1	twist family bHLH transcription factor 1 [Source:HGNC Symbol;Acc:HGNC:12428]	119	2.45	0.1990	12.3	6.3E-35	8.1E-34
ENSG00000106603	COA1	cytochrome c oxidase assembly factor 1 homolog [Source:HGNC Symbol;Acc:HGNC:21868]	1872	0.58	0.0467	12.3	5.2E-35	6.8E-34
ENSG00000095380	NANS	N-acetylneuraminase synthase [Source:HGNC Symbol;Acc:HGNC:19237]	1315	0.72	0.0584	12.3	5.2E-35	6.8E-34
ENSG00000228232	GAPDH1	glyceraldehyde-3-phosphate dehydrogenase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:4159]	782	0.89	0.0718	12.3	5.0E-35	6.5E-34
ENSG00000144824	PHLDB2	pleckstrin homology like domain family B member 2 [Source:HGNC Symbol;Acc:HGNC:29573]	3301	0.55	0.0445	12.4	4.3E-35	5.6E-34
ENSG00000169604	ANTXR1	ANTXR cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:21014]	1847	0.58	0.0466	12.4	4.0E-35	5.2E-34
ENSG00000167815	PRDX2	peroxiredoxin 2 [Source:HGNC Symbol;Acc:HGNC:9353]	1031	0.77	0.0622	12.4	3.7E-35	4.8E-34
ENSG00000130396	AFDN	afadin, adherens junction formation factor [Source:HGNC Symbol;Acc:HGNC:7137]	3323	0.52	0.0423	12.4	3.6E-35	4.7E-34
ENSG00000111424	VDR	vitamin D receptor [Source:HGNC Symbol;Acc:HGNC:12679]	1605	0.62	0.0502	12.4	3.3E-35	4.3E-34
ENSG00000118894	EEF2KMT	eukaryotic elongation factor 2 lysine methyltransferase [Source:HGNC Symbol;Acc:HGNC:32221]	215	1.67	0.1351	12.4	2.8E-35	3.6E-34
ENSG00000159217	IGF2BP1	insulin like growth factor 2 mRNA binding protein 1 [Source:HGNC Symbol;Acc:HGNC:28866]	546	1.04	0.0838	12.4	2.7E-35	3.5E-34
ENSG00000150630	VEGFC	vascular endothelial growth factor C [Source:HGNC Symbol;Acc:HGNC:12682]	124	6.61	0.5325	12.4	2.4E-35	3.2E-34
ENSG00000136732	GYPC	glycophorin C (Gerbig blood group) [Source:HGNC Symbol;Acc:HGNC:4704]	570	0.99	0.0795	12.4	2.1E-35	2.7E-34
ENSG00000172661	WASHC2C	WASH complex subunit 2C [Source:HGNC Symbol;Acc:HGNC:23414]	517	1.03	0.0830	12.4	2.0E-35	2.6E-34
ENSG00000129451	KLK10	kallikrein related peptidase 10 [Source:HGNC Symbol;Acc:HGNC:6358]	340	1.29	0.1038	12.4	1.9E-35	2.5E-34
ENSG00000099290	WASHC2A	WASH complex subunit 2A [Source:HGNC Symbol;Acc:HGNC:23416]	640	1.00	0.0803	12.4	1.6E-35	2.1E-34
ENSG00000145536	ADAMTS16	ADAM metallopeptidase with thrombospondin type 1 motif 16 [Source:HGNC Symbol;Acc:HGNC:17108]	96	5.77	0.4635	12.4	1.6E-35	2.1E-34
ENSG00000198742	SMURF1	SMAD specific E3 ubiquitin protein ligase 1 [Source:HGNC Symbol;Acc:HGNC:16807]	1196	0.71	0.0571	12.4	1.4E-35	1.9E-34

ENSG00000117228	GBP1	guanylate binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4182]	1873	0.61	0.0486	12.5	9.3E-36	1.2E-34
ENSG00000126602	TRAP1	TNF receptor associated protein 1 [Source:HGNC Symbol;Acc:HGNC:16264]	1249	0.76	0.0609	12.5	8.8E-36	1.2E-34
ENSG00000122257	RBBP6	RB binding protein 6, ubiquitin ligase [Source:HGNC Symbol;Acc:HGNC:9889]	1380	0.71	0.0563	12.5	4.1E-36	5.5E-35
ENSG00000205078	SYCE1L	synaptonemal complex central element protein 1 like [Source:HGNC Symbol;Acc:HGNC:37236]	149	2.15	0.1710	12.6	3.7E-36	5.0E-35
ENSG00000249353	NPM1P27	nucleophosmin 1 pseudogene 27 [Source:HGNC Symbol;Acc:HGNC:45206]	2070	0.66	0.0526	12.6	3.7E-36	4.9E-35
ENSG00000245694	CRNDE	colorectal neoplasia differentially expressed [Source:HGNC Symbol;Acc:HGNC:37078]	559	1.00	0.0800	12.6	3.2E-36	4.3E-35
ENSG00000106617	PRKAG2	protein kinase AMP-activated non-catalytic subunit gamma 2 [Source:HGNC Symbol;Acc:HGNC:9386]	1129	0.79	0.0625	12.6	2.5E-36	3.3E-35
ENSG00000161999	JMJD8	jumonji domain containing 8 [Source:HGNC Symbol;Acc:HGNC:14148]	133	2.28	0.1809	12.6	2.2E-36	2.9E-35
ENSG00000184207	PGP	phosphoglycolate phosphatase [Source:HGNC Symbol;Acc:HGNC:8909]	781	0.99	0.0783	12.6	2.0E-36	2.7E-35
ENSG00000167962	ZNF598	zinc finger protein 598, E3 ubiquitin ligase [Source:HGNC Symbol;Acc:HGNC:28079]	800	0.90	0.0717	12.6	2.0E-36	2.7E-35
ENSG00000103005	USB1	U6 snRNA biogenesis phosphodiesterase 1 [Source:HGNC Symbol;Acc:HGNC:25792]	1692	0.62	0.0492	12.6	1.9E-36	2.6E-35
ENSG00000028116	VRK2	VRK serine/threonine kinase 2 [Source:HGNC Symbol;Acc:HGNC:12719]	629	0.96	0.0764	12.6	1.7E-36	2.3E-35
ENSG00000136738	STAM	signal transducing adaptor molecule [Source:HGNC Symbol;Acc:HGNC:11357]	609	1.00	0.0792	12.6	1.5E-36	2.0E-35
ENSG00000124570	SERPINB6	serpin family B member 6 [Source:HGNC Symbol;Acc:HGNC:8950]	2100	0.64	0.0505	12.6	1.5E-36	2.0E-35
ENSG00000174705	SH3PXD2B	SH3 and PX domains 2B [Source:HGNC Symbol;Acc:HGNC:29242]	546	1.06	0.0841	12.6	1.2E-36	1.6E-35
ENSG00000075142	SRI	sorcin [Source:HGNC Symbol;Acc:HGNC:11292]	1287	0.72	0.0568	12.7	1.1E-36	1.5E-35
ENSG00000109854	HTATIP2	HIV-1 Tat interactive protein 2 [Source:HGNC Symbol;Acc:HGNC:16637]	766	0.97	0.0763	12.7	1.0E-36	1.4E-35
ENSG00000067082	KLF6	Kruppel like factor 6 [Source:HGNC Symbol;Acc:HGNC:2235]	1763	0.62	0.0493	12.7	9.5E-37	1.3E-35
ENSG00000177548	RABEP2	rabaptin, RAB GTPase binding effector protein 2 [Source:HGNC Symbol;Acc:HGNC:24817]	952	0.83	0.0652	12.7	7.4E-37	1.0E-35
ENSG00000113558	SKP1	S-phase kinase associated protein 1 [Source:HGNC Symbol;Acc:HGNC:10899]	2840	0.51	0.0406	12.7	6.1E-37	8.2E-36
ENSG00000171703	TCEA2	transcription elongation factor A2 [Source:HGNC Symbol;Acc:HGNC:11614]	864	0.95	0.0751	12.7	5.1E-37	6.9E-36
ENSG00000105447	GRWD1	glutamate rich WD repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:21270]	3053	0.52	0.0407	12.7	3.2E-37	4.3E-36
ENSG00000136816	TOR1B	torsin family 1 member B [Source:HGNC Symbol;Acc:HGNC:11995]	1573	0.65	0.0508	12.8	2.1E-37	2.9E-36
ENSG00000102977	ACD	ACD shelterin complex subunit and telomerase recruitment factor [Source:HGNC Symbol;Acc:HGNC:25000]	1086	0.74	0.0583	12.8	2.0E-37	2.8E-36
ENSG00000170989	S1PR1	sphingosine-1-phosphate receptor 1 [Source:HGNC Symbol;Acc:HGNC:3165]	307	1.41	0.1097	12.8	1.2E-37	1.6E-36
ENSG00000221963	APOL6	apolipoprotein L6 [Source:HGNC Symbol;Acc:HGNC:14870]	1874	0.63	0.0487	12.8	1.1E-37	1.4E-36
ENSG00000197142	ACSL5	acyl-CoA synthetase long chain family member 5 [Source:HGNC Symbol;Acc:HGNC:16526]	99	3.03	0.2357	12.8	8.9E-38	1.2E-36
ENSG00000122870	BICC1	BicC family RNA binding protein 1 [Source:HGNC Symbol;Acc:HGNC:19351]	271	3.04	0.2363	12.9	8.6E-38	1.2E-36
ENSG00000106853	PTGR1	prostaglandin reductase 1 [Source:HGNC Symbol;Acc:HGNC:18429]	1162	0.76	0.0588	12.9	7.5E-38	1.0E-36
ENSG00000158321	AUTS2	activator of transcription and developmental regulator AUTS2 [Source:HGNC Symbol;Acc:HGNC:14262]	179	2.02	0.1569	12.9	7.2E-38	1.0E-36
ENSG00000287839	ENSG00000287839	novel transcript	224	1.69	0.1307	12.9	4.3E-38	5.9E-37
ENSG00000167555	ZNF528	zinc finger protein 528 [Source:HGNC Symbol;Acc:HGNC:29384]	293	1.48	0.1141	12.9	3.3E-38	4.5E-37
ENSG00000133321	PLAAT4	phospholipase A and acyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:9869]	328	1.40	0.1085	12.9	2.9E-38	4.0E-37
ENSG00000079691	CARMIL1	capping protein regulator and myosin 1 linker 1 [Source:HGNC Symbol;Acc:HGNC:21581]	2240	0.56	0.0434	12.9	2.6E-38	3.7E-37
ENSG00000102858	MGRN1	mahogunin ring finger 1 [Source:HGNC Symbol;Acc:HGNC:20254]	825	0.95	0.0736	12.9	2.6E-38	3.6E-37
ENSG00000118900	UBN1	ubinuclin 1 [Source:HGNC Symbol;Acc:HGNC:12506]	2522	0.59	0.0452	12.9	2.5E-38	3.5E-37
ENSG00000178913	TAF7	TATA-box binding protein associated factor 7 [Source:HGNC Symbol;Acc:HGNC:11541]	2509	0.57	0.0440	13.0	2.3E-38	3.2E-37
ENSG00000120913	PDLIM2	PDZ and LIM domain 2 [Source:HGNC Symbol;Acc:HGNC:13992]	530	1.07	0.0825	13.0	2.2E-38	3.1E-37
ENSG00000168394	TAP1	transporter 1, ATP binding cassette subfamily B member [Source:HGNC Symbol;Acc:HGNC:43]	1703	0.65	0.0501	13.0	2.2E-38	3.1E-37
ENSG00000169814	BTD	biotinidase [Source:HGNC Symbol;Acc:HGNC:1122]	544	1.17	0.0898	13.0	1.7E-38	2.3E-37
ENSG00000171606	ZNF274	zinc finger protein 274 [Source:HGNC Symbol;Acc:HGNC:13068]	1042	0.79	0.0606	13.0	1.6E-38	2.3E-37
ENSG00000127947	PTPN12	protein tyrosine phosphatase non-receptor type 12 [Source:HGNC Symbol;Acc:HGNC:9645]	2683	0.57	0.0437	13.0	1.1E-38	1.5E-37

ENSG00000121274	TENT4B	terminal nucleotidyltransferase 4B [Source:HGNC Symbol;Acc:HGNC:30758]	1136	0.81	0.0626	13.0	9.5E-39	1.3E-37
ENSG00000064961	HMG20B	high mobility group 20B [Source:HGNC Symbol;Acc:HGNC:5002]	1681	0.65	0.0499	13.0	9.0E-39	1.3E-37
ENSG00000064042	LIMCH1	LIM and calponin homology domains 1 [Source:HGNC Symbol;Acc:HGNC:29191]	1132	0.78	0.0598	13.0	8.6E-39	1.2E-37
ENSG00000165887	ANKRD2	ankyrin repeat domain 2 [Source:HGNC Symbol;Acc:HGNC:495]	402	1.34	0.1030	13.0	8.1E-39	1.1E-37
ENSG00000185847	LINC01405	long intergenic non-protein coding RNA 1405 [Source:HGNC Symbol;Acc:HGNC:50688]	147	6.85	0.5258	13.0	7.9E-39	1.1E-37
ENSG00000062822	POLD1	DNA polymerase delta 1, catalytic subunit [Source:HGNC Symbol;Acc:HGNC:9175]	2663	0.53	0.0408	13.1	5.4E-39	7.6E-38
ENSG00000088682	COQ9	coenzyme Q9 [Source:HGNC Symbol;Acc:HGNC:25302]	1528	0.67	0.0509	13.1	5.2E-39	7.4E-38
ENSG00000102007	PLP2	proteolipid protein 2 [Source:HGNC Symbol;Acc:HGNC:9087]	2664	0.53	0.0403	13.1	5.0E-39	7.1E-38
ENSG00000114480	GBE1	1,4-alpha-glucan branching enzyme 1 [Source:HGNC Symbol;Acc:HGNC:4180]	1235	0.73	0.0558	13.1	4.8E-39	6.8E-38
ENSG00000059122	FLYWCH1	FLYWCH-type zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:25404]	540	1.07	0.0818	13.1	4.8E-39	6.8E-38
ENSG00000160326	SLC2A6	solute carrier family 2 member 6 [Source:HGNC Symbol;Acc:HGNC:11011]	207	1.91	0.1465	13.1	4.8E-39	6.8E-38
ENSG00000138134	STAMBPL1	STAM binding protein like 1 [Source:HGNC Symbol;Acc:HGNC:24105]	251	1.63	0.1243	13.1	4.5E-39	6.3E-38
ENSG00000007545	CRAMP1	cramped chromatin regulator homolog 1 [Source:HGNC Symbol;Acc:HGNC:14122]	318	1.45	0.1109	13.1	3.8E-39	5.4E-38
ENSG00000183780	SLC35F3	solute carrier family 35 member F3 [Source:HGNC Symbol;Acc:HGNC:23616]	97	3.46	0.2642	13.1	3.1E-39	4.4E-38
ENSG00000186187	ZNRF1	zinc and ring finger 1 [Source:HGNC Symbol;Acc:HGNC:18452]	698	0.99	0.0757	13.1	3.0E-39	4.3E-38
ENSG00000118508	RAB32	RAB32, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9772]	1150	0.87	0.0659	13.1	2.3E-39	3.3E-38
ENSG00000134470	IL15RA	interleukin 15 receptor subunit alpha [Source:HGNC Symbol;Acc:HGNC:5978]	128	2.53	0.1926	13.1	2.2E-39	3.2E-38
ENSG00000102924	CBLN1	cerebellin 1 precursor [Source:HGNC Symbol;Acc:HGNC:1543]	243	1.74	0.1322	13.2	1.2E-39	1.7E-38
ENSG00000204520	MICA	MHC class I polypeptide-related sequence A [Source:HGNC Symbol;Acc:HGNC:7090]	665	1.00	0.0758	13.2	1.2E-39	1.7E-38
ENSG00000103485	QPRT	quinolinate phosphoribosyltransferase [Source:HGNC Symbol;Acc:HGNC:9755]	2175	0.65	0.0490	13.2	1.1E-39	1.6E-38
ENSG00000007541	PIGQ	phosphatidylinositol glycan anchor biosynthesis class Q [Source:HGNC Symbol;Acc:HGNC:14135]	677	1.02	0.0771	13.2	8.1E-40	1.2E-38
ENSG00000158985	CDC42SE2	CDC42 small effector 2 [Source:HGNC Symbol;Acc:HGNC:18547]	1452	0.70	0.0527	13.2	7.9E-40	1.1E-38
ENSG00000067365	METTL22	methyltransferase like 22 [Source:HGNC Symbol;Acc:HGNC:28368]	521	1.13	0.0851	13.2	6.6E-40	9.6E-39
ENSG00000147044	CASK	calcium/calmodulin dependent serine protein kinase [Source:HGNC Symbol;Acc:HGNC:1497]	676	0.99	0.0747	13.2	4.6E-40	6.7E-39
ENSG00000283378	CNTNAP3C	contactin associated protein family member 3C [Source:HGNC Symbol;Acc:HGNC:53878]	88	3.87	0.2914	13.3	3.2E-40	4.6E-39
ENSG00000057019	DCBLD2	discoidin, CUB and LCCL domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24627]	848	0.92	0.0690	13.3	2.7E-40	3.9E-39
ENSG00000073417	PDE8A	phosphodiesterase 8A [Source:HGNC Symbol;Acc:HGNC:8793]	792	0.92	0.0693	13.3	2.6E-40	3.8E-39
ENSG00000108179	PPIF	peptidylprolyl isomerase F [Source:HGNC Symbol;Acc:HGNC:9259]	1635	0.67	0.0502	13.3	1.5E-40	2.1E-39
ENSG00000262576	PCDHGA4	protocadherin gamma subfamily A, 4 [Source:HGNC Symbol;Acc:HGNC:8702]	97	5.14	0.3849	13.3	1.3E-40	1.9E-39
ENSG00000255346	NOX5	NADPH oxidase 5 [Source:HGNC Symbol;Acc:HGNC:14874]	120	2.67	0.1999	13.4	1.1E-40	1.6E-39
ENSG00000123416	TUBA1B	tubulin alpha 1b [Source:HGNC Symbol;Acc:HGNC:18809]	3033	0.53	0.0399	13.4	1.0E-40	1.5E-39
ENSG00000175727	MLXIP	MLX interacting protein [Source:HGNC Symbol;Acc:HGNC:17055]	676	1.03	0.0766	13.4	5.5E-41	8.2E-40
ENSG00000084636	COL16A1	collagen type XVI alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2193]	500	1.15	0.0857	13.4	4.9E-41	7.2E-40
ENSG00000173207	CKS1B	CDC28 protein kinase regulatory subunit 1B [Source:HGNC Symbol;Acc:HGNC:19083]	3691	0.52	0.0389	13.4	4.7E-41	7.0E-40
ENSG00000134453	RBM17	RNA binding motif protein 17 [Source:HGNC Symbol;Acc:HGNC:16944]	1617	0.72	0.0538	13.4	4.7E-41	6.9E-40
ENSG00000168283	BMI1	BMI1 proto-oncogene, polycomb ring finger [Source:HGNC Symbol;Acc:HGNC:1066]	472	1.22	0.0910	13.4	4.6E-41	6.8E-40
ENSG00000108582	CPD	carboxypeptidase D [Source:HGNC Symbol;Acc:HGNC:2301]	2025	0.63	0.0465	13.5	2.7E-41	4.1E-40
ENSG00000197603	CPLANE1	ciliogenesis and planar polarity effector 1 [Source:HGNC Symbol;Acc:HGNC:25801]	1124	0.79	0.0583	13.5	2.3E-41	3.5E-40
ENSG00000074071	MRPS34	mitochondrial ribosomal protein S34 [Source:HGNC Symbol;Acc:HGNC:16618]	2041	1.37	0.1015	13.5	2.2E-41	3.3E-40
ENSG00000091622	PITPNM3	PITPNM family member 3 [Source:HGNC Symbol;Acc:HGNC:21043]	1436	0.71	0.0528	13.5	2.0E-41	3.0E-40
ENSG00000124216	SNAI1	snail family transcriptional repressor 1 [Source:HGNC Symbol;Acc:HGNC:11128]	415	1.27	0.0939	13.5	1.4E-41	2.1E-40
ENSG00000133401	PDZD2	PDZ domain containing 2 [Source:HGNC Symbol;Acc:HGNC:18486]	576	1.12	0.0828	13.5	1.3E-41	2.0E-40

ENSG00000147100	SLC16A2	solute carrier family 16 member 2 [Source:HGNC Symbol;Acc:HGNC:10923]	634	1.21	0.0892	13.5	9.9E-42	1.5E-40
ENSG00000197903	H2BC12	H2B clustered histone 12 [Source:HGNC Symbol;Acc:HGNC:13954]	1059	0.83	0.0612	13.6	5.7E-42	8.7E-41
ENSG00000175505	CLCF1	cardiotrophin like cytokine factor 1 [Source:HGNC Symbol;Acc:HGNC:17412]	366	1.37	0.1012	13.6	5.3E-42	8.0E-41
ENSG00000119042	SATB2	SATB homeobox 2 [Source:HGNC Symbol;Acc:HGNC:21637]	133	2.56	0.1886	13.6	4.8E-42	7.3E-41
ENSG00000176087	SLC35A4	solute carrier family 35 member A4 [Source:HGNC Symbol;Acc:HGNC:20753]	3429	0.51	0.0376	13.6	3.4E-42	5.2E-41
ENSG00000164902	PHAX	phosphorylated adaptor for RNA export [Source:HGNC Symbol;Acc:HGNC:10241]	1661	0.66	0.0482	13.6	3.1E-42	4.8E-41
ENSG00000087258	GNAO1	G protein subunit alpha o1 [Source:HGNC Symbol;Acc:HGNC:4389]	593	1.10	0.0808	13.6	2.6E-42	4.0E-41
ENSG00000160963	COL26A1	collagen type XXVI alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:18038]	156	2.29	0.1679	13.6	2.4E-42	3.7E-41
ENSG00000008710	PKD1	polycystin 1, transient receptor potential channel interacting [Source:HGNC Symbol;Acc:HGNC:9008]	838	0.93	0.0681	13.6	2.3E-42	3.5E-41
ENSG00000100003	SEC14L2	SEC14 like lipid binding 2 [Source:HGNC Symbol;Acc:HGNC:10699]	407	1.41	0.1030	13.6	2.2E-42	3.4E-41
ENSG00000176438	SYNE3	spectrin repeat containing nuclear envelope family member 3 [Source:HGNC Symbol;Acc:HGNC:19861]	298	1.61	0.1180	13.7	1.4E-42	2.2E-41
ENSG00000122515	ZMIZ2	zinc finger MIZ-type containing 2 [Source:HGNC Symbol;Acc:HGNC:22229]	2339	0.59	0.0430	13.7	1.2E-42	1.8E-41
ENSG00000164626	KCNK5	potassium two pore domain channel subfamily K member 5 [Source:HGNC Symbol;Acc:HGNC:6280]	510	1.19	0.0867	13.7	1.2E-42	1.8E-41
ENSG00000183421	RIPK4	receptor interacting serine/threonine kinase 4 [Source:HGNC Symbol;Acc:HGNC:496]	1379	0.73	0.0535	13.7	9.7E-43	1.5E-41
ENSG00000162086	ZNF75A	zinc finger protein 75a [Source:HGNC Symbol;Acc:HGNC:13146]	441	1.28	0.0937	13.7	8.2E-43	1.3E-41
ENSG00000146063	TRIM41	tripartite motif containing 41 [Source:HGNC Symbol;Acc:HGNC:19013]	1743	0.65	0.0474	13.7	7.0E-43	1.1E-41
ENSG00000109519	GRPEL1	GrpE like 1, mitochondrial [Source:HGNC Symbol;Acc:HGNC:19696]	1832	0.64	0.0468	13.7	6.8E-43	1.1E-41
ENSG00000158286	RNF207	ring finger protein 207 [Source:HGNC Symbol;Acc:HGNC:32947]	554	1.12	0.0813	13.7	6.8E-43	1.1E-41
ENSG00000180801	ARSL	arylsulfatase family member J [Source:HGNC Symbol;Acc:HGNC:26286]	105	3.26	0.2364	13.8	3.1E-43	4.8E-42
ENSG00000037241	RPL26L1	ribosomal protein L26 like 1 [Source:HGNC Symbol;Acc:HGNC:17050]	1244	0.78	0.0569	13.8	3.0E-43	4.6E-42
ENSG00000128050	PAICS	phosphoribosylaminoimidazole carboxylase and phosphoribosylaminoimidazolesuccinocarboxamide synthetase [Source:HGNC Symbol;Acc:HGNC:10000]	4841	0.50	0.0365	13.8	1.5E-43	2.4E-42
ENSG00000268119	ENSG00000268119	novel transcript	237	1.77	0.1281	13.8	1.3E-43	2.1E-42
ENSG0000013561	RNF14	ring finger protein 14 [Source:HGNC Symbol;Acc:HGNC:10058]	1548	0.74	0.0531	13.9	1.1E-43	1.7E-42
ENSG00000135253	KCP	kielin cysteine rich BMP regulator [Source:HGNC Symbol;Acc:HGNC:17585]	110	3.19	0.2304	13.9	1.0E-43	1.6E-42
ENSG00000140988	RPS2	ribosomal protein S2 [Source:HGNC Symbol;Acc:HGNC:10404]	49420	1.49	0.1077	13.9	1.0E-43	1.6E-42
ENSG00000117472	TSPAN1	tetraspanin 1 [Source:HGNC Symbol;Acc:HGNC:20657]	441	1.45	0.1041	13.9	7.3E-44	1.2E-42
ENSG00000171649	ZIK1	zinc finger protein interacting with K protein 1 [Source:HGNC Symbol;Acc:HGNC:33104]	282	1.70	0.1225	13.9	6.7E-44	1.1E-42
ENSG00000159202	UBE2Z	ubiquitin conjugating enzyme E2 Z [Source:HGNC Symbol;Acc:HGNC:25847]	4100	0.50	0.0360	13.9	6.6E-44	1.0E-42
ENSG00000137124	ALDH1B1	aldehyde dehydrogenase 1 family member B1 [Source:HGNC Symbol;Acc:HGNC:407]	740	1.01	0.0725	13.9	4.8E-44	7.7E-43
ENSG00000122591	FAM126A	family with sequence similarity 126 member A [Source:HGNC Symbol;Acc:HGNC:24587]	1809	0.68	0.0485	13.9	4.5E-44	7.2E-43
ENSG00000097021	ACOT7	acyl-CoA thioesterase 7 [Source:HGNC Symbol;Acc:HGNC:24157]	1676	0.68	0.0485	13.9	3.7E-44	5.9E-43
ENSG00000134369	NAV1	neuron navigator 1 [Source:HGNC Symbol;Acc:HGNC:15989]	339	1.70	0.1223	13.9	3.7E-44	5.9E-43
ENSG00000090975	PITPNM2	phosphatidylinositol transfer protein membrane associated 2 [Source:HGNC Symbol;Acc:HGNC:21044]	859	0.99	0.0707	14.0	2.7E-44	4.4E-43
ENSG00000167291	TBC1D16	TBC1 domain family member 16 [Source:HGNC Symbol;Acc:HGNC:28356]	284	1.61	0.1154	14.0	2.7E-44	4.3E-43
ENSG00000177697	CD151	CD151 molecule (Raph blood group) [Source:HGNC Symbol;Acc:HGNC:1630]	3907	0.54	0.0389	14.0	2.2E-44	3.6E-43
ENSG00000100605	ITPK1	inositol-tetrakisphosphate 1-kinase [Source:HGNC Symbol;Acc:HGNC:6177]	1075	0.95	0.0678	14.0	2.0E-44	3.2E-43
ENSG00000145908	ZNF300	zinc finger protein 300 [Source:HGNC Symbol;Acc:HGNC:13091]	99	3.85	0.2747	14.0	1.1E-44	1.9E-43
ENSG00000145912	NHP2	NHP2 ribonucleoprotein [Source:HGNC Symbol;Acc:HGNC:14377]	2207	0.65	0.0463	14.0	9.6E-45	1.6E-43
ENSG00000103145	HCFC1R1	host cell factor C1 regulator 1 [Source:HGNC Symbol;Acc:HGNC:21198]	527	1.19	0.0847	14.0	8.2E-45	1.3E-43
ENSG00000112118	MCM3	minichromosome maintenance complex component 3 [Source:HGNC Symbol;Acc:HGNC:6945]	3518	0.50	0.0359	14.1	5.8E-45	9.5E-44
ENSG00000120594	PLXDC2	plexin domain containing 2 [Source:HGNC Symbol;Acc:HGNC:21013]	810	0.97	0.0693	14.1	5.7E-45	9.4E-44
ENSG00000153922	CHD1	chromodomain helicase DNA binding protein 1 [Source:HGNC Symbol;Acc:HGNC:1915]	1317	0.80	0.0565	14.1	5.3E-45	8.7E-44

ENSG00000185033	SEMA4B	semaphorin 4B [Source:HGNC Symbol;Acc:HGNC:10730]	1049	0.92	0.0654	14.1	4.1E-45	6.8E-44
ENSG00000026652	AGPAT4	1-acylglycerol-3-phosphate O-acyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:20885]	121	3.09	0.2193	14.1	3.4E-45	5.6E-44
ENSG00000170312	CDK1	cyclin dependent kinase 1 [Source:HGNC Symbol;Acc:HGNC:1722]	1893	0.67	0.0477	14.1	3.3E-45	5.4E-44
ENSG00000095906	NUBP2	nucleotide binding protein 2 [Source:HGNC Symbol;Acc:HGNC:8042]	1527	0.79	0.0558	14.1	2.9E-45	4.7E-44
ENSG00000198873	GRK5	G protein-coupled receptor kinase 5 [Source:HGNC Symbol;Acc:HGNC:4544]	454	1.29	0.0914	14.1	2.1E-45	3.5E-44
ENSG00000196502	SULT1A1	sulfotransferase family 1A member 1 [Source:HGNC Symbol;Acc:HGNC:11453]	132	2.77	0.1959	14.2	1.8E-45	3.0E-44
ENSG00000187372	PCDHB13	protocadherin beta 13 [Source:HGNC Symbol;Acc:HGNC:8684]	231	1.88	0.1324	14.2	9.4E-46	1.6E-44
ENSG00000164535	DAGLB	diacylglycerol lipase beta [Source:HGNC Symbol;Acc:HGNC:28923]	1323	0.84	0.0588	14.2	7.7E-46	1.3E-44
ENSG00000073921	PICALM	phosphatidylinositol binding clathrin assembly protein [Source:HGNC Symbol;Acc:HGNC:15514]	3088	0.55	0.0389	14.2	7.6E-46	1.3E-44
ENSG00000178188	SH2B1	SH2B adaptor protein 1 [Source:HGNC Symbol;Acc:HGNC:30417]	1088	0.83	0.0584	14.2	5.7E-46	9.4E-45
ENSG00000106080	FKBP14	FKBP prolyl isomerase 14 [Source:HGNC Symbol;Acc:HGNC:18625]	440	1.32	0.0926	14.3	4.2E-46	6.9E-45
ENSG00000260565	ERVK13-1	endogenous retrovirus group K13 member 1 [Source:HGNC Symbol;Acc:HGNC:27548]	368	1.46	0.1021	14.3	4.1E-46	6.9E-45
ENSG00000205629	LCMT1	leucine carboxyl methyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:17557]	699	1.04	0.0729	14.3	3.8E-46	6.4E-45
ENSG00000176658	MYO1D	myosin ID [Source:HGNC Symbol;Acc:HGNC:7598]	670	1.04	0.0732	14.3	3.1E-46	5.2E-45
ENSG00000197943	PLCG2	phospholipase C gamma 2 [Source:HGNC Symbol;Acc:HGNC:9066]	343	1.54	0.1076	14.3	3.1E-46	5.1E-45
ENSG00000136280	CCM2	CCM2 scaffold protein [Source:HGNC Symbol;Acc:HGNC:21708]	1368	0.79	0.0552	14.3	2.4E-46	4.0E-45
ENSG00000103966	EHD4	EH domain containing 4 [Source:HGNC Symbol;Acc:HGNC:3245]	2007	0.74	0.0521	14.3	2.2E-46	3.7E-45
ENSG00000157827	FMNL2	formin like 2 [Source:HGNC Symbol;Acc:HGNC:18267]	1238	0.81	0.0567	14.3	2.0E-46	3.3E-45
ENSG00000144596	GRIP2	glutamate receptor interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:23841]	102	3.98	0.2779	14.3	1.8E-46	3.0E-45
ENSG00000132530	XAF1	XIAP associated factor 1 [Source:HGNC Symbol;Acc:HGNC:30932]	566	1.21	0.0844	14.3	1.7E-46	2.9E-45
ENSG00000007384	RHBDF1	rhomboid 5 homolog 1 [Source:HGNC Symbol;Acc:HGNC:20561]	2635	0.58	0.0404	14.3	1.2E-46	2.0E-45
ENSG00000138316	ADAMTS14	ADAM metalloproteinase with thrombospondin type 1 motif 14 [Source:HGNC Symbol;Acc:HGNC:14899]	157	2.50	0.1740	14.3	1.1E-46	1.8E-45
ENSG00000118680	MYL12B	myosin light chain 12B [Source:HGNC Symbol;Acc:HGNC:29827]	9428	0.52	0.0361	14.4	9.1E-47	1.5E-45
ENSG00000156587	UBE2L6	ubiquitin conjugating enzyme E2 L6 [Source:HGNC Symbol;Acc:HGNC:12490]	3102	0.62	0.0428	14.4	7.9E-47	1.3E-45
ENSG00000197928	ZNF677	zinc finger protein 677 [Source:HGNC Symbol;Acc:HGNC:28730]	603	1.15	0.0795	14.4	4.2E-47	7.2E-46
ENSG00000166250	CLMP	CXADR like membrane protein [Source:HGNC Symbol;Acc:HGNC:24039]	147	2.58	0.1792	14.4	3.9E-47	6.7E-46
ENSG00000167395	ZNF646	zinc finger protein 646 [Source:HGNC Symbol;Acc:HGNC:29004]	643	1.15	0.0798	14.4	3.6E-47	6.2E-46
ENSG00000105926	MPP6	membrane palmitoylated protein 6 [Source:HGNC Symbol;Acc:HGNC:18167]	489	1.50	0.1040	14.4	3.4E-47	5.8E-46
ENSG00000111145	ELK3	ETS transcription factor ELK3 [Source:HGNC Symbol;Acc:HGNC:3325]	556	1.18	0.0820	14.4	3.3E-47	5.7E-46
ENSG00000167676	PLIN4	perilipin 4 [Source:HGNC Symbol;Acc:HGNC:29393]	115	5.24	0.3627	14.4	3.2E-47	5.4E-46
ENSG00000119946	CNNM1	cyclin and CBS domain divalent metal cation transport mediator 1 [Source:HGNC Symbol;Acc:HGNC:102]	885	0.95	0.0657	14.4	2.8E-47	4.9E-46
ENSG00000131408	NR1H2	nuclear receptor subfamily 1 group H member 2 [Source:HGNC Symbol;Acc:HGNC:7965]	3101	0.56	0.0386	14.5	2.5E-47	4.3E-46
ENSG00000086475	SEPHS1	selenophosphate synthetase 1 [Source:HGNC Symbol;Acc:HGNC:19685]	2056	0.65	0.0446	14.5	2.3E-47	4.0E-46
ENSG00000180185	FAHD1	fumarylacetoacetate hydrolase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:14169]	622	1.12	0.0775	14.5	1.8E-47	3.2E-46
ENSG00000173442	EHBP1L1	EH domain binding protein 1 like 1 [Source:HGNC Symbol;Acc:HGNC:30682]	1979	0.74	0.0510	14.5	9.5E-48	1.6E-46
ENSG00000197894	ADH5	alcohol dehydrogenase 5 (class III), chi polypeptide [Source:HGNC Symbol;Acc:HGNC:253]	2964	0.63	0.0433	14.6	4.9E-48	8.5E-47
ENSG00000145632	PLK2	polo like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19699]	4491	0.52	0.0357	14.6	4.2E-48	7.3E-47
ENSG00000160190	SLC37A1	solute carrier family 37 member 1 [Source:HGNC Symbol;Acc:HGNC:11024]	1070	0.91	0.0626	14.6	3.9E-48	6.8E-47
ENSG00000159461	AMFR	autocrine motility factor receptor [Source:HGNC Symbol;Acc:HGNC:463]	1865	0.71	0.0488	14.6	3.3E-48	5.7E-47
ENSG00000131165	CHMP1A	charged multivesicular body protein 1A [Source:HGNC Symbol;Acc:HGNC:8740]	1830	0.68	0.0467	14.6	3.1E-48	5.5E-47
ENSG00000177508	IRX3	iroquois homeobox 3 [Source:HGNC Symbol;Acc:HGNC:14360]	789	1.11	0.0762	14.6	1.9E-48	3.3E-47
ENSG00000167526	RPL13	ribosomal protein L13 [Source:HGNC Symbol;Acc:HGNC:10303]	14127	0.54	0.0368	14.6	1.4E-48	2.5E-47

ENSG00000103356	EARS2	glutamyl-tRNA synthetase 2, mitochondrial [Source:HGNC Symbol;Acc:HGNC:29419]	1438	0.82	0.0557	14.7	1.1E-48	1.9E-47
ENSG00000163659	TIPARP	TCDD inducible poly(ADP-ribose) polymerase [Source:HGNC Symbol;Acc:HGNC:23696]	1350	0.83	0.0564	14.7	7.0E-49	1.2E-47
ENSG00000136840	ST6GALNAC	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:17846]	534	1.30	0.0882	14.7	6.5E-49	1.1E-47
ENSG00000168140	VASN	vasorin [Source:HGNC Symbol;Acc:HGNC:18517]	373	1.60	0.1083	14.7	4.3E-49	7.6E-48
ENSG00000079332	SAR1A	secretion associated Ras related GTPase 1A [Source:HGNC Symbol;Acc:HGNC:10534]	3878	0.52	0.0350	14.8	2.5E-49	4.5E-48
ENSG00000083799	CYLD	CYLD lysine 63 deubiquitinase [Source:HGNC Symbol;Acc:HGNC:2584]	1314	0.81	0.0548	14.8	2.0E-49	3.6E-48
ENSG00000140632	GLYR1	glyoxylate reductase 1 homolog [Source:HGNC Symbol;Acc:HGNC:24434]	1789	0.72	0.0485	14.8	1.9E-49	3.3E-48
ENSG00000138166	DUSP5	dual specificity phosphatase 5 [Source:HGNC Symbol;Acc:HGNC:3071]	621	1.20	0.0812	14.8	1.5E-49	2.6E-48
ENSG00000073060	SCARB1	scavenger receptor class B member 1 [Source:HGNC Symbol;Acc:HGNC:1664]	953	1.09	0.0734	14.8	8.6E-50	1.5E-48
ENSG00000117226	GBP3	guanylate binding protein 3 [Source:HGNC Symbol;Acc:HGNC:4184]	628	1.18	0.0797	14.8	8.5E-50	1.5E-48
ENSG00000115363	EVA1A	eva-1 homolog A, regulator of programmed cell death [Source:HGNC Symbol;Acc:HGNC:25816]	2390	0.67	0.0454	14.8	8.2E-50	1.4E-48
ENSG00000135643	KCNMB4	potassium calcium-activated channel subfamily M regulatory beta subunit 4 [Source:HGNC Symbol;Acc:	231	1.96	0.1320	14.8	8.0E-50	1.4E-48
ENSG00000102978	POLR2C	RNA polymerase II subunit C [Source:HGNC Symbol;Acc:HGNC:9189]	2353	0.66	0.0445	14.9	6.8E-50	1.2E-48
ENSG00000265354	TIMM23	translocase of inner mitochondrial membrane 23 [Source:HGNC Symbol;Acc:HGNC:17312]	1370	0.79	0.0533	14.9	6.4E-50	1.1E-48
ENSG00000188191	PRKAR1B	protein kinase cAMP-dependent type I regulatory subunit beta [Source:HGNC Symbol;Acc:HGNC:9390]	1271	0.83	0.0557	14.9	5.2E-50	9.3E-49
ENSG00000180263	FGD6	FYVE, RhoGEF and PH domain containing 6 [Source:HGNC Symbol;Acc:HGNC:21740]	867	0.99	0.0669	14.9	5.0E-50	8.8E-49
ENSG00000166106	ADAMTS15	ADAM metallopeptidase with thrombospondin type 1 motif 15 [Source:HGNC Symbol;Acc:HGNC:16305]	188	2.26	0.1515	14.9	3.7E-50	6.6E-49
ENSG00000103194	USP10	ubiquitin specific peptidase 10 [Source:HGNC Symbol;Acc:HGNC:12608]	1599	0.77	0.0518	14.9	3.1E-50	5.6E-49
ENSG00000182831	C16orf72	chromosome 16 open reading frame 72 [Source:HGNC Symbol;Acc:HGNC:30103]	785	1.09	0.0733	14.9	2.7E-50	4.8E-49
ENSG00000248538	ENSG000002	novel transcript	110	4.08	0.2739	14.9	2.7E-50	4.8E-49
ENSG00000122642	FKBP9	FKBP prolyl isomerase 9 [Source:HGNC Symbol;Acc:HGNC:3725]	2388	0.66	0.0444	14.9	2.3E-50	4.1E-49
ENSG00000211450	SELENOH	selenoprotein H [Source:HGNC Symbol;Acc:HGNC:18251]	630	1.26	0.0844	14.9	2.0E-50	3.6E-49
ENSG00000169908	TM4SF1	transmembrane 4 L six family member 1 [Source:HGNC Symbol;Acc:HGNC:11853]	3381	0.58	0.0390	14.9	1.8E-50	3.3E-49
ENSG00000127463	EMC1	ER membrane protein complex subunit 1 [Source:HGNC Symbol;Acc:HGNC:28957]	3628	0.55	0.0370	14.9	1.7E-50	3.0E-49
ENSG00000171604	CXXC5	CXXC finger protein 5 [Source:HGNC Symbol;Acc:HGNC:26943]	3544	0.55	0.0365	15.0	1.5E-50	2.6E-49
ENSG00000172159	FRMD3	FERM domain containing 3 [Source:HGNC Symbol;Acc:HGNC:24125]	119	3.44	0.2300	15.0	1.4E-50	2.6E-49
ENSG00000140941	MAP1LC3B	microtubule associated protein 1 light chain 3 beta [Source:HGNC Symbol;Acc:HGNC:13352]	1259	0.84	0.0561	15.0	1.2E-50	2.3E-49
ENSG00000275700	AATF	apoptosis antagonizing transcription factor [Source:HGNC Symbol;Acc:HGNC:19235]	1642	0.75	0.0504	15.0	1.1E-50	1.9E-49
ENSG00000163069	SGCB	sarcoglycan beta [Source:HGNC Symbol;Acc:HGNC:10806]	1093	0.91	0.0608	15.0	7.7E-51	1.4E-49
ENSG00000102038	SMARCA1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 1 [Sc	2525	0.61	0.0409	15.0	7.7E-51	1.4E-49
ENSG00000197081	IGF2R	insulin like growth factor 2 receptor [Source:HGNC Symbol;Acc:HGNC:5467]	4034	0.55	0.0365	15.0	6.7E-51	1.2E-49
ENSG00000185043	CIB1	calcium and integrin binding 1 [Source:HGNC Symbol;Acc:HGNC:16920]	478	1.34	0.0893	15.0	6.3E-51	1.1E-49
ENSG00000067715	SYT1	synaptotagmin 1 [Source:HGNC Symbol;Acc:HGNC:11509]	587	1.19	0.0792	15.0	5.7E-51	1.0E-49
ENSG00000197006	METTL9	methyltransferase like 9 [Source:HGNC Symbol;Acc:HGNC:24586]	1912	0.76	0.0506	15.0	5.6E-51	1.0E-49
ENSG00000129255	MPDU1	mannose-P-dolichol utilization defect 1 [Source:HGNC Symbol;Acc:HGNC:7207]	1247	0.85	0.0567	15.0	5.1E-51	9.2E-50
ENSG00000074211	PPP2R2C	protein phosphatase 2 regulatory subunit Bgamma [Source:HGNC Symbol;Acc:HGNC:9306]	319	1.68	0.1118	15.0	4.4E-51	8.0E-50
ENSG00000084754	HADHA	hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit alpha [Source:HGNC Symb	4973	0.51	0.0341	15.1	3.0E-51	5.6E-50
ENSG00000198964	SGMS1	sphingomyelin synthase 1 [Source:HGNC Symbol;Acc:HGNC:29799]	530	1.30	0.0864	15.1	2.3E-51	4.3E-50
ENSG00000196850	PPTC7	protein phosphatase targeting COQ7 [Source:HGNC Symbol;Acc:HGNC:30695]	1125	0.93	0.0615	15.1	2.2E-51	4.0E-50
ENSG00000074416	MGLL	monoglyceride lipase [Source:HGNC Symbol;Acc:HGNC:17038]	3819	0.53	0.0351	15.1	1.4E-51	2.6E-50
ENSG00000181104	F2R	coagulation factor II thrombin receptor [Source:HGNC Symbol;Acc:HGNC:3537]	163	2.58	0.1703	15.2	5.7E-52	1.1E-50
ENSG00000070814	TCOF1	treacle ribosome biogenesis factor 1 [Source:HGNC Symbol;Acc:HGNC:11654]	3357	0.62	0.0410	15.2	5.7E-52	1.1E-50

ENSG00000113068	PFDN1	prefoldin subunit 1 [Source:HGNC Symbol;Acc:HGNC:8866]	1249	0.85	0.0562	15.2	4.3E-52	8.1E-51
ENSG00000197451	HNRNPAB	heterogeneous nuclear ribonucleoprotein A/B [Source:HGNC Symbol;Acc:HGNC:5034]	7109	0.62	0.0410	15.2	4.3E-52	8.0E-51
ENSG00000179241	LDLRAD3	low density lipoprotein receptor class A domain containing 3 [Source:HGNC Symbol;Acc:HGNC:27046]	416	1.46	0.0961	15.2	3.8E-52	7.0E-51
ENSG00000237187	NR2F1-AS1	NR2F1 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:48622]	117	4.06	0.2662	15.2	1.7E-52	3.1E-51
ENSG00000148143	ZNF462	zinc finger protein 462 [Source:HGNC Symbol;Acc:HGNC:21684]	728	1.11	0.0726	15.3	1.3E-52	2.4E-51
ENSG00000127586	CHTF18	chromosome transmission fidelity factor 18 [Source:HGNC Symbol;Acc:HGNC:18435]	1212	0.96	0.0629	15.3	6.8E-53	1.3E-51
ENSG00000172366	MCRIP2	MAPK regulated corepressor interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:14142]	204	2.29	0.1492	15.3	5.2E-53	9.7E-52
ENSG00000129636	ITFG1	integrin alpha FG-GAP repeat containing 1 [Source:HGNC Symbol;Acc:HGNC:30697]	2329	0.66	0.0430	15.4	2.8E-53	5.3E-52
ENSG00000154229	PRKCA	protein kinase C alpha [Source:HGNC Symbol;Acc:HGNC:9393]	558	1.27	0.0829	15.4	2.6E-53	4.9E-52
ENSG00000171316	CHD7	chromodomain helicase DNA binding protein 7 [Source:HGNC Symbol;Acc:HGNC:20626]	829	1.06	0.0693	15.4	2.4E-53	4.6E-52
ENSG00000158125	XDH	xanthine dehydrogenase [Source:HGNC Symbol;Acc:HGNC:12805]	612	1.22	0.0796	15.4	1.9E-53	3.6E-52
ENSG00000136052	SLC41A2	solute carrier family 41 member 2 [Source:HGNC Symbol;Acc:HGNC:31045]	425	1.47	0.0956	15.4	1.8E-53	3.4E-52
ENSG00000157483	MYO1E	myosin IE [Source:HGNC Symbol;Acc:HGNC:7599]	4649	0.51	0.0332	15.4	1.5E-53	2.8E-52
ENSG00000167981	ZNF597	zinc finger protein 597 [Source:HGNC Symbol;Acc:HGNC:26573]	130	3.45	0.2235	15.5	7.5E-54	1.4E-52
ENSG00000117461	PIK3R3	phosphoinositide-3-kinase regulatory subunit 3 [Source:HGNC Symbol;Acc:HGNC:8981]	535	1.33	0.0859	15.5	6.2E-54	1.2E-52
ENSG00000074527	NTN4	netrin 4 [Source:HGNC Symbol;Acc:HGNC:13658]	3649	0.59	0.0380	15.5	5.8E-54	1.1E-52
ENSG00000137309	HMGA1	high mobility group AT-hook 1 [Source:HGNC Symbol;Acc:HGNC:5010]	7405	0.53	0.0340	15.5	3.7E-54	7.2E-53
ENSG00000072364	AFF4	AF4/FMR2 family member 4 [Source:HGNC Symbol;Acc:HGNC:17869]	2811	0.64	0.0410	15.5	3.6E-54	6.9E-53
ENSG00000108021	TASOR2	transcription activation suppressor family member 2 [Source:HGNC Symbol;Acc:HGNC:23484]	1476	0.87	0.0563	15.5	2.6E-54	5.1E-53
ENSG00000128512	DOCK4	dedicator of cytokinesis 4 [Source:HGNC Symbol;Acc:HGNC:19192]	223	2.19	0.1407	15.5	2.1E-54	4.1E-53
ENSG00000159720	ATP6VOD1	ATPase H+ transporting V0 subunit d1 [Source:HGNC Symbol;Acc:HGNC:13724]	4148	0.58	0.0374	15.5	2.0E-54	3.9E-53
ENSG00000188505	NCCRP1	NCCRP1, F-box associated domain containing [Source:HGNC Symbol;Acc:HGNC:33739]	131	3.36	0.2160	15.6	1.2E-54	2.4E-53
ENSG00000140545	MFGE8	milk fat globule EGF and factor V/VIII domain containing [Source:HGNC Symbol;Acc:HGNC:7036]	1257	0.90	0.0579	15.6	1.0E-54	2.0E-53
ENSG00000125775	SDCBP2	syndecan binding protein 2 [Source:HGNC Symbol;Acc:HGNC:15756]	126	3.55	0.2278	15.6	8.9E-55	1.7E-53
ENSG00000103260	METRNL	meteorin, glial cell differentiation regulator [Source:HGNC Symbol;Acc:HGNC:14151]	500	1.40	0.0897	15.6	4.1E-55	8.1E-54
ENSG00000165156	ZHX1	zinc fingers and homeoboxes 1 [Source:HGNC Symbol;Acc:HGNC:12871]	1440	0.86	0.0552	15.6	4.0E-55	7.9E-54
ENSG00000130720	FIBCD1	fibrinogen C domain containing 1 [Source:HGNC Symbol;Acc:HGNC:25922]	129	3.96	0.2534	15.6	3.7E-55	7.3E-54
ENSG00000167034	NKX3-1	NK3 homeobox 1 [Source:HGNC Symbol;Acc:HGNC:7838]	314	1.82	0.1161	15.6	3.5E-55	6.9E-54
ENSG00000128335	APOL2	apolipoprotein L2 [Source:HGNC Symbol;Acc:HGNC:619]	1619	0.93	0.0593	15.7	2.1E-55	4.1E-54
ENSG00000137575	SDCBP	syndecan binding protein [Source:HGNC Symbol;Acc:HGNC:10662]	1681	0.78	0.0500	15.7	1.6E-55	3.2E-54
ENSG00000101246	ARFRP1	ADP ribosylation factor related protein 1 [Source:HGNC Symbol;Acc:HGNC:662]	1633	0.84	0.0532	15.7	7.2E-56	1.4E-54
ENSG00000122643	NT5C3A	5'-nucleotidase, cytosolic IIIA [Source:HGNC Symbol;Acc:HGNC:17820]	843	1.11	0.0701	15.8	4.8E-56	9.6E-55
ENSG00000132507	EIF5A	eukaryotic translation initiation factor 5A [Source:HGNC Symbol;Acc:HGNC:3300]	20102	0.52	0.0332	15.8	4.7E-56	9.4E-55
ENSG00000100258	LMF2	lipase maturation factor 2 [Source:HGNC Symbol;Acc:HGNC:25096]	1922	0.77	0.0490	15.8	3.6E-56	7.3E-55
ENSG00000196159	FAT4	FAT atypical cadherin 4 [Source:HGNC Symbol;Acc:HGNC:23109]	449	1.45	0.0916	15.8	3.1E-56	6.2E-55
ENSG00000122232	EXTL3	exostosin like glycosyltransferase 3 [Source:HGNC Symbol;Acc:HGNC:3518]	1004	1.00	0.0632	15.8	2.7E-56	5.5E-55
ENSG00000138798	EGF	epidermal growth factor [Source:HGNC Symbol;Acc:HGNC:3229]	236	2.10	0.1328	15.8	2.5E-56	5.0E-55
ENSG00000173848	NET1	neuroepithelial cell transforming 1 [Source:HGNC Symbol;Acc:HGNC:14592]	659	1.20	0.0761	15.8	2.2E-56	4.3E-55
ENSG00000150867	PIP4K2A	phosphatidylinositol-5-phosphate 4-kinase type 2 alpha [Source:HGNC Symbol;Acc:HGNC:8997]	339	1.75	0.1103	15.8	1.7E-56	3.4E-55
ENSG00000170955	CAVIN3	caveolae associated protein 3 [Source:HGNC Symbol;Acc:HGNC:9400]	145	3.16	0.1995	15.8	1.5E-56	2.9E-55
ENSG00000103502	CDIPT	CDP-diacylglycerol-inositol 3-phosphatidyltransferase [Source:HGNC Symbol;Acc:HGNC:1769]	1088	0.97	0.0611	15.9	1.2E-56	2.5E-55
ENSG00000105993	DNAJB6	DnaJ heat shock protein family (Hsp40) member B6 [Source:HGNC Symbol;Acc:HGNC:14888]	4271	0.54	0.0340	15.9	1.2E-56	2.4E-55

ENSG00000176406	RIMS2	regulating synaptic membrane exocytosis 2 [Source:HGNC Symbol;Acc:HGNC:17283]	868	1.09	0.0685	15.9	1.2E-56	2.4E-55
ENSG00000162591	MEGF6	multiple EGF like domains 6 [Source:HGNC Symbol;Acc:HGNC:3232]	200	2.41	0.1521	15.9	1.2E-56	2.3E-55
ENSG00000130731	METTL26	methyltransferase like 26 [Source:HGNC Symbol;Acc:HGNC:14141]	1149	0.94	0.0593	15.9	6.9E-57	1.4E-55
ENSG00000151348	EXT2	exostosin glycosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:3513]	4243	0.63	0.0394	15.9	6.8E-57	1.4E-55
ENSG00000196262	PPIA	peptidylprolyl isomerase A [Source:HGNC Symbol;Acc:HGNC:9253]	69320	0.92	0.0581	15.9	6.2E-57	1.3E-55
ENSG00000184584	STING1	stimulator of interferon response cGAMP interactor 1 [Source:HGNC Symbol;Acc:HGNC:27962]	1035	0.97	0.0610	15.9	5.5E-57	1.1E-55
ENSG00000171444	MCC	MCC regulator of WNT signaling pathway [Source:HGNC Symbol;Acc:HGNC:6935]	702	1.19	0.0745	15.9	4.9E-57	1.0E-55
ENSG00000033011	ALG1	ALG1 chitobiosyldiphosphodolichol beta-mannosyltransferase [Source:HGNC Symbol;Acc:HGNC:18294]	388	1.62	0.1016	15.9	3.7E-57	7.5E-56
ENSG00000147010	SH3KBP1	SH3 domain containing kinase binding protein 1 [Source:HGNC Symbol;Acc:HGNC:13867]	3798	0.62	0.0388	16.0	2.8E-57	5.7E-56
ENSG00000167969	ECI1	enoyl-CoA delta isomerase 1 [Source:HGNC Symbol;Acc:HGNC:2703]	1141	0.98	0.0614	16.0	2.6E-57	5.3E-56
ENSG00000074219	TEAD2	TEA domain transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:11715]	258	2.03	0.1271	16.0	2.1E-57	4.3E-56
ENSG00000104774	MAN2B1	mannosidase alpha class 2B member 1 [Source:HGNC Symbol;Acc:HGNC:6826]	209	2.37	0.1485	16.0	1.8E-57	3.6E-56
ENSG00000161981	SNRNP25	small nuclear ribonucleoprotein U11/U12 subunit 25 [Source:HGNC Symbol;Acc:HGNC:14161]	3843	0.61	0.0384	16.0	1.6E-57	3.3E-56
ENSG00000131504	DIAPH1	diaphanous related formin 1 [Source:HGNC Symbol;Acc:HGNC:2876]	5204	0.53	0.0328	16.0	1.1E-57	2.3E-56
ENSG00000136848	DAB2IP	DAB2 interacting protein [Source:HGNC Symbol;Acc:HGNC:17294]	1494	0.85	0.0528	16.0	1.0E-57	2.1E-56
ENSG00000041880	PARP3	poly(ADP-ribose) polymerase family member 3 [Source:HGNC Symbol;Acc:HGNC:273]	385	1.77	0.1105	16.0	1.0E-57	2.1E-56
ENSG00000166446	CDYL2	chromodomain Y like 2 [Source:HGNC Symbol;Acc:HGNC:23030]	141	5.19	0.3233	16.0	6.0E-58	1.2E-56
ENSG00000117407	ARTN	artemin [Source:HGNC Symbol;Acc:HGNC:727]	166	2.97	0.1849	16.1	5.7E-58	1.2E-56
ENSG00000005020	SKAP2	src kinase associated phosphoprotein 2 [Source:HGNC Symbol;Acc:HGNC:15687]	1305	0.87	0.0542	16.1	3.9E-58	8.2E-57
ENSG00000151465	CDC123	cell division cycle 123 [Source:HGNC Symbol;Acc:HGNC:16827]	1267	0.90	0.0556	16.1	1.5E-58	3.1E-57
ENSG00000177189	RPS6KA3	ribosomal protein S6 kinase A3 [Source:HGNC Symbol;Acc:HGNC:10432]	1152	0.92	0.0571	16.2	8.2E-59	1.7E-57
ENSG00000197774	EME2	essential meiotic structure-specific endonuclease subunit 2 [Source:HGNC Symbol;Acc:HGNC:27289]	312	1.81	0.1117	16.2	7.0E-59	1.5E-57
ENSG00000198736	MSRB1	methionine sulfoxide reductase B1 [Source:HGNC Symbol;Acc:HGNC:14133]	538	1.37	0.0847	16.2	6.1E-59	1.3E-57
ENSG00000151718	WWC2	WW and C2 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:24148]	3890	0.57	0.0350	16.2	5.0E-59	1.0E-57
ENSG00000160211	G6PD	glucose-6-phosphate dehydrogenase [Source:HGNC Symbol;Acc:HGNC:4057]	2491	0.69	0.0422	16.3	1.9E-59	3.9E-58
ENSG00000142634	EFHD2	EF-hand domain family member D2 [Source:HGNC Symbol;Acc:HGNC:28670]	891	1.16	0.0712	16.3	1.6E-59	3.5E-58
ENSG00000164574	GALNT10	polypeptide N-acetylgalactosaminyltransferase 10 [Source:HGNC Symbol;Acc:HGNC:19873]	3514	0.62	0.0383	16.3	1.3E-59	2.8E-58
ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	1832	0.78	0.0478	16.3	5.4E-60	1.2E-58
ENSG00000123146	ADGRE5	adhesion G protein-coupled receptor E5 [Source:HGNC Symbol;Acc:HGNC:1711]	1543	0.87	0.0532	16.3	5.4E-60	1.1E-58
ENSG00000143322	ABL2	ABL proto-oncogene 2, non-receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:77]	1712	0.80	0.0489	16.4	2.3E-60	5.0E-59
ENSG00000144136	SLC20A1	solute carrier family 20 member 1 [Source:HGNC Symbol;Acc:HGNC:10946]	3344	0.61	0.0373	16.4	1.1E-60	2.3E-59
ENSG00000065809	FAM107B	family with sequence similarity 107 member B [Source:HGNC Symbol;Acc:HGNC:23726]	222	2.35	0.1426	16.5	7.1E-61	1.5E-59
ENSG00000115641	FHL2	four and a half LIM domains 2 [Source:HGNC Symbol;Acc:HGNC:3703]	2559	0.69	0.0421	16.5	7.0E-61	1.5E-59
ENSG00000130635	COL5A1	collagen type V alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2209]	5334	0.59	0.0357	16.5	3.9E-61	8.5E-60
ENSG00000235162	C12orf75	chromosome 12 open reading frame 75 [Source:HGNC Symbol;Acc:HGNC:35164]	2814	0.68	0.0410	16.5	3.7E-61	8.0E-60
ENSG00000114779	ABHD14B	abhydrolase domain containing 14B [Source:HGNC Symbol;Acc:HGNC:28235]	812	1.13	0.0684	16.5	3.4E-61	7.3E-60
ENSG00000163399	ATP1A1	ATPase Na ⁺ /K ⁺ transporting subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:799]	8349	0.53	0.0321	16.5	2.9E-61	6.3E-60
ENSG00000103197	TSC2	TSC complex subunit 2 [Source:HGNC Symbol;Acc:HGNC:12363]	1333	0.93	0.0561	16.5	2.3E-61	5.0E-60
ENSG00000090924	PLEKHG2	pleckstrin homology and RhoGEF domain containing G2 [Source:HGNC Symbol;Acc:HGNC:29515]	958	1.05	0.0635	16.6	9.6E-62	2.1E-60
ENSG00000175274	TP53I11	tumor protein p53 inducible protein 11 [Source:HGNC Symbol;Acc:HGNC:16842]	255	2.12	0.1279	16.6	8.8E-62	1.9E-60
ENSG00000121297	TSHZ3	teashirt zinc finger homeobox 3 [Source:HGNC Symbol;Acc:HGNC:30700]	166	3.08	0.1860	16.6	8.2E-62	1.8E-60
ENSG00000184007	PTP4A2	protein tyrosine phosphatase 4A2 [Source:HGNC Symbol;Acc:HGNC:9635]	3135	0.68	0.0411	16.7	2.0E-62	4.5E-61

ENSG00000260604	ENSG000002	novel transcript	186	2.84	0.1702	16.7	1.8E-62	3.9E-61
ENSG00000132481	TRIM47	tripartite motif containing 47 [Source:HGNC Symbol;Acc:HGNC:19020]	752	1.23	0.0735	16.7	1.4E-62	3.0E-61
ENSG00000103534	TMC5	transmembrane channel like 5 [Source:HGNC Symbol;Acc:HGNC:22999]	677	1.35	0.0808	16.7	1.3E-62	2.8E-61
ENSG00000100558	PLEK2	pleckstrin 2 [Source:HGNC Symbol;Acc:HGNC:19238]	516	1.68	0.1004	16.7	1.1E-62	2.3E-61
ENSG00000108829	LRRC59	leucine rich repeat containing 59 [Source:HGNC Symbol;Acc:HGNC:28817]	4355	0.57	0.0338	16.7	8.3E-63	1.8E-61
ENSG00000185164	NOMO2	NODAL modulator 2 [Source:HGNC Symbol;Acc:HGNC:22652]	4073	0.60	0.0357	16.8	3.3E-63	7.3E-62
ENSG00000145901	TNIP1	TNFAIP3 interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:16903]	2123	0.76	0.0453	16.8	2.8E-63	6.3E-62
ENSG00000064205	CCN5	cellular communication network factor 5 [Source:HGNC Symbol;Acc:HGNC:12770]	221	2.60	0.1549	16.8	2.7E-63	5.9E-62
ENSG00000174791	RIN1	Ras and Rab interactor 1 [Source:HGNC Symbol;Acc:HGNC:18749]	278	2.17	0.1294	16.8	2.4E-63	5.4E-62
ENSG00000162654	GBP4	guanylate binding protein 4 [Source:HGNC Symbol;Acc:HGNC:20480]	407	1.72	0.1021	16.8	2.2E-63	4.9E-62
ENSG00000196498	NCOR2	nuclear receptor corepressor 2 [Source:HGNC Symbol;Acc:HGNC:7673]	3397	0.79	0.0472	16.8	1.9E-63	4.2E-62
ENSG00000102870	ZNF629	zinc finger protein 629 [Source:HGNC Symbol;Acc:HGNC:29008]	950	1.11	0.0662	16.8	1.8E-63	4.1E-62
ENSG00000225138	SLC9A3-AS1	SLC9A3 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:40550]	435	1.64	0.0972	16.9	1.0E-63	2.3E-62
ENSG00000103496	STX4	syntaxin 4 [Source:HGNC Symbol;Acc:HGNC:11439]	1142	0.99	0.0584	17.0	1.6E-64	3.6E-63
ENSG00000023171	GRAMD1B	GRAM domain containing 1B [Source:HGNC Symbol;Acc:HGNC:29214]	443	4.07	0.2402	17.0	1.5E-64	3.3E-63
ENSG00000172775	PSME3IP1	proteasome activator subunit 3 interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:29856]	2185	0.77	0.0452	17.0	1.3E-64	3.0E-63
ENSG00000138356	AOX1	aldehyde oxidase 1 [Source:HGNC Symbol;Acc:HGNC:553]	233	2.46	0.1446	17.0	9.9E-65	2.3E-63
ENSG00000167930	FAM234A	family with sequence similarity 234 member A [Source:HGNC Symbol;Acc:HGNC:14163]	2009	0.77	0.0451	17.0	9.3E-65	2.1E-63
ENSG00000119771	KLHL29	kelch like family member 29 [Source:HGNC Symbol;Acc:HGNC:29404]	282	2.05	0.1206	17.0	8.0E-65	1.8E-63
ENSG00000152465	NMT2	N-myristoyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:7858]	606	1.37	0.0806	17.0	5.5E-65	1.2E-63
ENSG00000159579	RSPRY1	ring finger and SPRY domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29420]	1095	1.03	0.0604	17.0	5.3E-65	1.2E-63
ENSG00000164877	MICAL2	MICAL like 2 [Source:HGNC Symbol;Acc:HGNC:29672]	600	1.41	0.0829	17.0	4.6E-65	1.1E-63
ENSG00000184840	TMED9	transmembrane p24 trafficking protein 9 [Source:HGNC Symbol;Acc:HGNC:24878]	11271	0.51	0.0301	17.0	4.0E-65	9.2E-64
ENSG00000137834	SMAD6	SMAD family member 6 [Source:HGNC Symbol;Acc:HGNC:6772]	950	1.11	0.0650	17.1	2.5E-65	5.7E-64
ENSG00000197712	FAM114A1	family with sequence similarity 114 member A1 [Source:HGNC Symbol;Acc:HGNC:25087]	1117	1.01	0.0592	17.1	1.7E-65	3.8E-64
ENSG00000167766	ZNF83	zinc finger protein 83 [Source:HGNC Symbol;Acc:HGNC:13158]	931	1.15	0.0674	17.1	1.5E-65	3.5E-64
ENSG00000085063	CD59	CD59 molecule (CD59 blood group) [Source:HGNC Symbol;Acc:HGNC:1689]	4649	0.61	0.0355	17.1	1.4E-65	3.3E-64
ENSG00000169594	BNC1	basonuclin 1 [Source:HGNC Symbol;Acc:HGNC:1081]	152	4.79	0.2798	17.1	1.2E-65	2.9E-64
ENSG00000138131	LOXL4	lysyl oxidase like 4 [Source:HGNC Symbol;Acc:HGNC:17171]	247	2.58	0.1507	17.1	1.1E-65	2.5E-64
ENSG00000169221	TBC1D10B	TBC1 domain family member 10B [Source:HGNC Symbol;Acc:HGNC:24510]	1071	1.13	0.0657	17.1	9.1E-66	2.1E-64
ENSG00000140853	NLRCS	NLR family CARD domain containing 5 [Source:HGNC Symbol;Acc:HGNC:29933]	610	1.40	0.0816	17.1	7.8E-66	1.8E-64
ENSG00000167608	TMC4	transmembrane channel like 4 [Source:HGNC Symbol;Acc:HGNC:22998]	312	1.99	0.1158	17.1	6.3E-66	1.5E-64
ENSG00000132334	PTPRE	protein tyrosine phosphatase receptor type E [Source:HGNC Symbol;Acc:HGNC:9669]	531	1.49	0.0864	17.2	2.7E-66	6.4E-65
ENSG00000168528	SERINC2	serine incorporator 2 [Source:HGNC Symbol;Acc:HGNC:23231]	4318	0.65	0.0379	17.2	2.2E-66	5.2E-65
ENSG00000078269	SYNJ2	synaptojanin 2 [Source:HGNC Symbol;Acc:HGNC:11504]	924	1.14	0.0662	17.2	1.9E-66	4.6E-65
ENSG00000149932	TMEM219	transmembrane protein 219 [Source:HGNC Symbol;Acc:HGNC:25201]	962	1.17	0.0677	17.2	1.9E-66	4.6E-65
ENSG00000103326	CAPN15	calpain 15 [Source:HGNC Symbol;Acc:HGNC:11182]	889	1.11	0.0647	17.2	1.7E-66	4.0E-65
ENSG00000141756	FKBP10	FKBP prolyl isomerase 10 [Source:HGNC Symbol;Acc:HGNC:18169]	328	1.95	0.1133	17.2	1.4E-66	3.4E-65
ENSG00000113578	FGF1	fibroblast growth factor 1 [Source:HGNC Symbol;Acc:HGNC:3665]	156	3.60	0.2081	17.3	3.9E-67	9.2E-66
ENSG00000255302	EID1	EP300 interacting inhibitor of differentiation 1 [Source:HGNC Symbol;Acc:HGNC:1191]	2712	0.71	0.0409	17.3	3.0E-67	7.2E-66
ENSG00000164111	ANXA5	annexin A5 [Source:HGNC Symbol;Acc:HGNC:543]	10504	0.55	0.0314	17.4	6.9E-68	1.6E-66
ENSG00000122299	ZC3H7A	zinc finger CCCH-type containing 7A [Source:HGNC Symbol;Acc:HGNC:30959]	2198	0.82	0.0470	17.4	5.7E-68	1.4E-66

ENSG00000155918	RAET1L	retinoic acid early transcript 1L [Source:HGNC Symbol;Acc:HGNC:16798]	203	2.74	0.1570	17.4	5.4E-68	1.3E-66
ENSG00000214049	UCA1	urothelial cancer associated 1 [Source:HGNC Symbol;Acc:HGNC:37126]	1702	0.88	0.0506	17.4	4.1E-68	1.0E-66
ENSG00000102287	GABRE	gamma-aminobutyric acid type A receptor subunit epsilon [Source:HGNC Symbol;Acc:HGNC:4085]	168	3.27	0.1870	17.5	2.7E-68	6.6E-67
ENSG00000179918	SEPHS2	selenophosphate synthetase 2 [Source:HGNC Symbol;Acc:HGNC:19686]	1299	0.97	0.0558	17.5	1.8E-68	4.5E-67
ENSG00000141076	UTP4	UTP4 small subunit processome component [Source:HGNC Symbol;Acc:HGNC:1983]	3709	0.65	0.0373	17.5	1.6E-68	3.8E-67
ENSG00000007376	RPUSD1	RNA pseudouridine synthase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:14173]	1094	1.11	0.0629	17.6	4.6E-69	1.1E-67
ENSG00000157106	SMG1	SMG1 nonsense mediated mRNA decay associated PI3K related kinase [Source:HGNC Symbol;Acc:HGNC:1474]	5568	0.59	0.0337	17.6	4.3E-69	1.0E-67
ENSG00000042493	CAPG	capping actin protein, gelsolin like [Source:HGNC Symbol;Acc:HGNC:1474]	8167	0.58	0.0331	17.6	1.3E-69	3.2E-68
ENSG00000110218	PANX1	pannexin 1 [Source:HGNC Symbol;Acc:HGNC:8599]	924	1.21	0.0685	17.7	8.5E-70	2.1E-68
ENSG00000155254	MARVELD1	MARVEL domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28674]	1737	0.88	0.0499	17.7	8.2E-70	2.0E-68
ENSG00000083444	PLOD1	procollagen-lysine,2-oxoglutarate 5-dioxygenase 1 [Source:HGNC Symbol;Acc:HGNC:9081]	4832	0.60	0.0337	17.7	5.0E-70	1.2E-68
ENSG00000112893	MAN2A1	mannosidase alpha class 2A member 1 [Source:HGNC Symbol;Acc:HGNC:6824]	2136	0.95	0.0539	17.7	4.8E-70	1.2E-68
ENSG00000103044	HAS3	hyaluronan synthase 3 [Source:HGNC Symbol;Acc:HGNC:4820]	714	1.38	0.0776	17.7	2.2E-70	5.3E-69
ENSG00000082781	ITGB5	integrin subunit beta 5 [Source:HGNC Symbol;Acc:HGNC:6160]	2983	0.70	0.0396	17.7	2.1E-70	5.1E-69
ENSG00000007520	TSR3	TSR3 ribosome maturation factor [Source:HGNC Symbol;Acc:HGNC:14175]	852	1.40	0.0785	17.8	1.3E-70	3.2E-69
ENSG00000154380	ENAH	ENAH actin regulator [Source:HGNC Symbol;Acc:HGNC:18271]	4721	0.62	0.0348	17.8	9.3E-71	2.3E-69
ENSG00000127603	MACF1	microtubule actin crosslinking factor 1 [Source:HGNC Symbol;Acc:HGNC:13664]	5946	0.67	0.0376	17.8	3.7E-71	9.2E-70
ENSG00000102359	SRPX2	sushi repeat containing protein X-linked 2 [Source:HGNC Symbol;Acc:HGNC:30668]	163	4.32	0.2425	17.8	3.6E-71	9.1E-70
ENSG00000171992	SYNPO	synaptopodin [Source:HGNC Symbol;Acc:HGNC:30672]	2590	0.84	0.0472	17.8	3.5E-71	8.8E-70
ENSG00000186603	HPDL	4-hydroxyphenylpyruvate dioxygenase like [Source:HGNC Symbol;Acc:HGNC:28242]	188	5.57	0.3120	17.8	3.4E-71	8.6E-70
ENSG00000086730	LAT2	linker for activation of T cells family member 2 [Source:HGNC Symbol;Acc:HGNC:12749]	203	2.83	0.1585	17.8	3.2E-71	8.0E-70
ENSG00000005339	CREBBP	CREB binding protein [Source:HGNC Symbol;Acc:HGNC:2348]	1726	0.89	0.0498	17.9	2.5E-71	6.4E-70
ENSG00000015171	ZMYND11	zinc finger MYND-type containing 11 [Source:HGNC Symbol;Acc:HGNC:16966]	1988	0.82	0.0457	17.9	1.9E-71	4.7E-70
ENSG00000040275	SPDL1	spindle apparatus coiled-coil protein 1 [Source:HGNC Symbol;Acc:HGNC:26010]	1956	0.84	0.0471	17.9	1.6E-71	4.0E-70
ENSG00000125520	SLC2A4RG	SLC2A4 regulator [Source:HGNC Symbol;Acc:HGNC:15930]	4918	0.60	0.0336	17.9	1.4E-71	3.5E-70
ENSG00000224078	SNHG14	small nucleolar RNA host gene 14 [Source:HGNC Symbol;Acc:HGNC:37462]	2139	0.80	0.0444	17.9	9.4E-72	2.4E-70
ENSG00000188549	CCDC9B	coiled-coil domain containing 9B [Source:HGNC Symbol;Acc:HGNC:33488]	3417	0.67	0.0375	18.0	1.9E-72	4.9E-71
ENSG00000079156	OSBPL6	oxysterol binding protein like 6 [Source:HGNC Symbol;Acc:HGNC:16388]	343	2.13	0.1182	18.0	1.9E-72	4.8E-71
ENSG00000113583	C5orf15	chromosome 5 open reading frame 15 [Source:HGNC Symbol;Acc:HGNC:20656]	2628	0.75	0.0416	18.0	1.7E-72	4.4E-71
ENSG00000065328	MCM10	minichromosome maintenance 10 replication initiation factor [Source:HGNC Symbol;Acc:HGNC:18043]	918	1.16	0.0644	18.0	1.2E-72	3.1E-71
ENSG00000069188	SDK2	sidekick cell adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:19308]	244	2.54	0.1404	18.1	5.8E-73	1.5E-71
ENSG00000179958	DCTPP1	dCTP pyrophosphatase 1 [Source:HGNC Symbol;Acc:HGNC:28777]	575	1.48	0.0818	18.1	4.7E-73	1.2E-71
ENSG00000122884	P4HA1	prolyl 4-hydroxylase subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:8546]	893	1.25	0.0690	18.1	3.2E-73	8.3E-72
ENSG00000102804	TSC22D1	TSC22 domain family member 1 [Source:HGNC Symbol;Acc:HGNC:16826]	988	1.20	0.0662	18.1	3.1E-73	7.9E-72
ENSG00000156860	FBR5	fibrosin [Source:HGNC Symbol;Acc:HGNC:20442]	1788	0.88	0.0485	18.1	2.4E-73	6.3E-72
ENSG00000121898	CPXM2	carboxypeptidase X, M14 family member 2 [Source:HGNC Symbol;Acc:HGNC:26977]	453	1.73	0.0952	18.1	1.7E-73	4.3E-72
ENSG00000149930	TAOK2	TAO kinase 2 [Source:HGNC Symbol;Acc:HGNC:16835]	2350	0.86	0.0473	18.2	1.1E-73	2.8E-72
ENSG00000117308	GALE	UDP-galactose-4-epimerase [Source:HGNC Symbol;Acc:HGNC:4116]	944	1.19	0.0656	18.2	1.1E-73	2.7E-72
ENSG00000137767	SQOR	sulfide quinone oxidoreductase [Source:HGNC Symbol;Acc:HGNC:20390]	272	2.32	0.1279	18.2	9.1E-74	2.4E-72
ENSG00000102882	MAPK3	mitogen-activated protein kinase 3 [Source:HGNC Symbol;Acc:HGNC:6877]	1194	1.14	0.0628	18.2	5.1E-74	1.3E-72
ENSG00000140859	KIFC3	kinesin family member C3 [Source:HGNC Symbol;Acc:HGNC:6326]	3589	0.68	0.0374	18.2	4.6E-74	1.2E-72
ENSG00000102144	PGK1	phosphoglycerate kinase 1 [Source:HGNC Symbol;Acc:HGNC:8896]	10661	0.57	0.0313	18.2	3.2E-74	8.4E-73

ENSG00000187837	H1-2	H1.2 linker histone, cluster member [Source:HGNC Symbol;Acc:HGNC:4716]	1460	1.02	0.0561	18.3	2.0E-74	5.3E-73
ENSG00000179889	PDXDC1	pyridoxal dependent decarboxylase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:28995]	5639	0.60	0.0327	18.3	1.3E-74	3.4E-73
ENSG00000169223	LMAN2	lectin, mannose binding 2 [Source:HGNC Symbol;Acc:HGNC:16986]	5369	0.61	0.0336	18.3	6.8E-75	1.8E-73
ENSG00000150938	CRIM1	cysteine rich transmembrane BMP regulator 1 [Source:HGNC Symbol;Acc:HGNC:2359]	7064	0.56	0.0304	18.4	2.6E-75	7.0E-74
ENSG00000105048	TNNT1	troponin T1, slow skeletal type [Source:HGNC Symbol;Acc:HGNC:11948]	3510	0.71	0.0386	18.4	2.2E-75	5.8E-74
ENSG00000090530	P3H2	prolyl 3-hydroxylase 2 [Source:HGNC Symbol;Acc:HGNC:19317]	4082	0.69	0.0378	18.4	1.8E-75	4.9E-74
ENSG00000159399	HK2	hexokinase 2 [Source:HGNC Symbol;Acc:HGNC:4923]	2236	0.84	0.0454	18.4	1.2E-75	3.2E-74
ENSG00000113758	DBN1	drebrin 1 [Source:HGNC Symbol;Acc:HGNC:2695]	2461	0.82	0.0447	18.4	9.6E-76	2.6E-74
ENSG00000145782	ATG12	autophagy related 12 [Source:HGNC Symbol;Acc:HGNC:588]	1203	1.07	0.0581	18.5	4.8E-76	1.3E-74
ENSG00000213949	ITGA1	integrin subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:6134]	1124	1.07	0.0580	18.5	3.4E-76	9.1E-75
ENSG00000133818	RRAS2	RAS related 2 [Source:HGNC Symbol;Acc:HGNC:17271]	837	1.32	0.0711	18.5	1.7E-76	4.6E-75
ENSG00000184792	OSBP2	oxysterol binding protein 2 [Source:HGNC Symbol;Acc:HGNC:8504]	580	1.51	0.0818	18.5	1.5E-76	4.0E-75
ENSG00000159840	ZYX	zyxin [Source:HGNC Symbol;Acc:HGNC:13200]	1887	0.93	0.0504	18.5	1.2E-76	3.2E-75
ENSG00000136270	TBRG4	transforming growth factor beta regulator 4 [Source:HGNC Symbol;Acc:HGNC:17443]	3739	0.68	0.0369	18.6	6.7E-77	1.8E-75
ENSG00000146007	ZMAT2	zinc finger matrin-type 2 [Source:HGNC Symbol;Acc:HGNC:26433]	3801	0.68	0.0365	18.6	2.8E-77	7.5E-76
ENSG00000122565	CBX3	chromobox 3 [Source:HGNC Symbol;Acc:HGNC:1553]	11050	0.51	0.0274	18.6	2.7E-77	7.3E-76
ENSG00000171914	TLN2	talin 2 [Source:HGNC Symbol;Acc:HGNC:15447]	438	1.83	0.0983	18.6	2.3E-77	6.4E-76
ENSG00000013306	SLC25A39	solute carrier family 25 member 39 [Source:HGNC Symbol;Acc:HGNC:24279]	3925	0.68	0.0363	18.6	1.9E-77	5.2E-76
ENSG00000196526	AFAP1	actin filament associated protein 1 [Source:HGNC Symbol;Acc:HGNC:24017]	1761	0.92	0.0495	18.6	1.8E-77	4.9E-76
ENSG00000198832	SELENOM	selenoprotein M [Source:HGNC Symbol;Acc:HGNC:30397]	1294	1.07	0.0573	18.6	1.4E-77	3.9E-76
ENSG00000165733	BMS1	BMS1 ribosome biogenesis factor [Source:HGNC Symbol;Acc:HGNC:23505]	1629	0.92	0.0494	18.6	1.3E-77	3.6E-76
ENSG00000103404	USP31	ubiquitin specific peptidase 31 [Source:HGNC Symbol;Acc:HGNC:20060]	753	1.43	0.0767	18.7	9.0E-78	2.5E-76
ENSG00000221968	FADS3	fatty acid desaturase 3 [Source:HGNC Symbol;Acc:HGNC:3576]	820	1.28	0.0684	18.7	5.2E-78	1.4E-76
ENSG00000185924	RTN4RL1	reticulon 4 receptor like 1 [Source:HGNC Symbol;Acc:HGNC:21329]	257	2.55	0.1365	18.7	4.1E-78	1.1E-76
ENSG00000164308	ERAP2	endoplasmic reticulum aminopeptidase 2 [Source:HGNC Symbol;Acc:HGNC:29499]	816	1.36	0.0724	18.7	3.5E-78	9.8E-77
ENSG00000109062	SLC9A3R1	SLC9A3 regulator 1 [Source:HGNC Symbol;Acc:HGNC:11075]	4335	0.68	0.0361	18.7	3.3E-78	9.1E-77
ENSG00000129521	EGLN3	egl-9 family hypoxia inducible factor 3 [Source:HGNC Symbol;Acc:HGNC:14661]	641	1.54	0.0820	18.8	4.1E-79	1.2E-77
ENSG00000100243	CYB5R3	cytochrome b5 reductase 3 [Source:HGNC Symbol;Acc:HGNC:2873]	3689	0.69	0.0367	18.8	3.9E-79	1.1E-77
ENSG00000165629	ATP5F1C	ATP synthase F1 subunit gamma [Source:HGNC Symbol;Acc:HGNC:833]	2941	0.83	0.0440	18.8	3.4E-79	9.5E-78
ENSG00000204673	AKT1S1	AKT1 substrate 1 [Source:HGNC Symbol;Acc:HGNC:28426]	5177	0.72	0.0383	18.8	3.4E-79	9.5E-78
ENSG00000112175	BMP5	bone morphogenetic protein 5 [Source:HGNC Symbol;Acc:HGNC:1072]	349	2.06	0.1092	18.9	1.2E-79	3.5E-78
ENSG00000214711	CAPN14	calpain 14 [Source:HGNC Symbol;Acc:HGNC:16664]	645	1.48	0.0783	18.9	1.2E-79	3.4E-78
ENSG00000136244	IL6	interleukin 6 [Source:HGNC Symbol;Acc:HGNC:6018]	679	1.48	0.0783	18.9	9.7E-80	2.7E-78
ENSG00000196562	SULF2	sulfatase 2 [Source:HGNC Symbol;Acc:HGNC:20392]	428	1.88	0.0992	18.9	9.3E-80	2.6E-78
ENSG00000059378	PARP12	poly(ADP-ribose) polymerase family member 12 [Source:HGNC Symbol;Acc:HGNC:21919]	2202	0.85	0.0447	18.9	6.4E-80	1.8E-78
ENSG00000123240	OPTN	optineurin [Source:HGNC Symbol;Acc:HGNC:17142]	1274	1.06	0.0559	18.9	6.4E-80	1.8E-78
ENSG00000102172	SMS	spermine synthase [Source:HGNC Symbol;Acc:HGNC:11123]	7277	0.60	0.0316	19.0	4.2E-80	1.2E-78
ENSG00000103275	UBE2I	ubiquitin conjugating enzyme E2 I [Source:HGNC Symbol;Acc:HGNC:12485]	1921	0.91	0.0480	19.0	2.9E-80	8.4E-79
ENSG00000136205	TNS3	tensin 3 [Source:HGNC Symbol;Acc:HGNC:21616]	4329	0.64	0.0338	19.0	2.9E-80	8.3E-79
ENSG00000008441	NFIX	nuclear factor I X [Source:HGNC Symbol;Acc:HGNC:7788]	865	1.29	0.0682	19.0	2.2E-80	6.3E-79
ENSG00000131653	TRAF7	TNF receptor associated factor 7 [Source:HGNC Symbol;Acc:HGNC:20456]	2603	0.79	0.0414	19.0	2.1E-80	5.9E-79
ENSG00000121753	ADGRB2	adhesion G protein-coupled receptor B2 [Source:HGNC Symbol;Acc:HGNC:944]	1384	1.05	0.0550	19.0	1.2E-80	3.5E-79

ENSG00000156642	NPTN	neuroplastin [Source:HGNC Symbol;Acc:HGNC:17867]	5066	0.66	0.0348	19.0	8.4E-81	2.4E-79
ENSG00000106991	ENG	endoglin [Source:HGNC Symbol;Acc:HGNC:3349]	1011	1.19	0.0627	19.0	7.4E-81	2.2E-79
ENSG00000122862	SRGN	serglycin [Source:HGNC Symbol;Acc:HGNC:9361]	2250	2.27	0.1193	19.1	6.3E-81	1.8E-79
ENSG00000147862	NFIB	nuclear factor I B [Source:HGNC Symbol;Acc:HGNC:7785]	633	1.63	0.0858	19.1	5.7E-81	1.7E-79
ENSG00000163932	PRKCD	protein kinase C delta [Source:HGNC Symbol;Acc:HGNC:9399]	917	1.26	0.0660	19.1	2.2E-81	6.4E-80
ENSG00000143367	TUFT1	tuftelin 1 [Source:HGNC Symbol;Acc:HGNC:12422]	3508	0.79	0.0415	19.1	1.4E-81	4.1E-80
ENSG00000097007	ABL1	ABL proto-oncogene 1, non-receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:76]	1486	1.02	0.0532	19.1	1.3E-81	3.7E-80
ENSG00000103423	DNAJA3	DnaJ heat shock protein family (Hsp40) member A3 [Source:HGNC Symbol;Acc:HGNC:11808]	1279	1.09	0.0570	19.1	1.2E-81	3.5E-80
ENSG00000108846	ABCC3	ATP binding cassette subfamily C member 3 [Source:HGNC Symbol;Acc:HGNC:54]	765	1.42	0.0741	19.1	1.1E-81	3.3E-80
ENSG00000080031	PTPRH	protein tyrosine phosphatase receptor type H [Source:HGNC Symbol;Acc:HGNC:9672]	299	2.38	0.1244	19.2	6.2E-82	1.8E-80
ENSG00000113732	ATP6V0E1	ATPase H+ transporting V0 subunit e1 [Source:HGNC Symbol;Acc:HGNC:863]	3410	0.76	0.0395	19.2	4.4E-82	1.3E-80
ENSG00000148158	SNX30	sorting nexin family member 30 [Source:HGNC Symbol;Acc:HGNC:23685]	369	2.12	0.1102	19.2	3.1E-82	9.2E-81
ENSG00000183751	TBL3	transducin beta like 3 [Source:HGNC Symbol;Acc:HGNC:11587]	1163	1.14	0.0590	19.3	5.0E-83	1.5E-81
ENSG00000135090	TAOK3	TAO kinase 3 [Source:HGNC Symbol;Acc:HGNC:18133]	1368	1.05	0.0539	19.4	4.3E-84	1.3E-82
ENSG00000105974	CAV1	caveolin 1 [Source:HGNC Symbol;Acc:HGNC:1527]	10719	0.54	0.0276	19.5	2.2E-84	6.8E-83
ENSG00000172183	ISG20	interferon stimulated exonuclease gene 20 [Source:HGNC Symbol;Acc:HGNC:6130]	705	1.57	0.0804	19.5	1.4E-84	4.4E-83
ENSG00000144645	OSBPL10	oxysterol binding protein like 10 [Source:HGNC Symbol;Acc:HGNC:16395]	1118	1.24	0.0638	19.5	1.3E-84	4.0E-83
ENSG00000011028	MRC2	mannose receptor C type 2 [Source:HGNC Symbol;Acc:HGNC:16875]	660	1.53	0.0784	19.5	1.0E-84	3.1E-83
ENSG00000117298	ECE1	endothelin converting enzyme 1 [Source:HGNC Symbol;Acc:HGNC:3146]	5409	0.64	0.0330	19.5	1.0E-84	3.1E-83
ENSG00000134278	SPIRE1	spire type actin nucleation factor 1 [Source:HGNC Symbol;Acc:HGNC:30622]	1139	1.17	0.0601	19.5	9.2E-85	2.8E-83
ENSG00000142669	SH3BGRL3	SH3 domain binding glutamate rich protein like 3 [Source:HGNC Symbol;Acc:HGNC:15568]	3374	0.72	0.0371	19.5	6.5E-85	2.0E-83
ENSG00000156453	PCDH1	protocadherin 1 [Source:HGNC Symbol;Acc:HGNC:8655]	3458	0.72	0.0368	19.6	2.3E-85	7.0E-84
ENSG00000057608	GDI2	GDP dissociation inhibitor 2 [Source:HGNC Symbol;Acc:HGNC:4227]	3850	0.72	0.0365	19.6	1.1E-85	3.3E-84
ENSG00000198618	PPIAP22	peptidylprolyl isomerase A pseudogene 22 [Source:HGNC Symbol;Acc:HGNC:17236]	2580	0.92	0.0468	19.6	8.6E-86	2.7E-84
ENSG00000113441	LNPEP	leucyl and cystinyl aminopeptidase [Source:HGNC Symbol;Acc:HGNC:6656]	1112	1.25	0.0634	19.7	5.5E-86	1.7E-84
ENSG00000113739	STC2	stanniocalcin 2 [Source:HGNC Symbol;Acc:HGNC:11374]	2556	0.80	0.0408	19.7	2.9E-86	9.1E-85
ENSG00000185499	MUC1	mucin 1, cell surface associated [Source:HGNC Symbol;Acc:HGNC:7508]	286	2.59	0.1316	19.7	2.3E-86	7.1E-85
ENSG00000184347	SLIT3	slit guidance ligand 3 [Source:HGNC Symbol;Acc:HGNC:11087]	196	4.63	0.2346	19.7	1.5E-86	4.6E-85
ENSG00000103365	GGA2	golgi associated, gamma adaptin ear containing, ARF binding protein 2 [Source:HGNC Symbol;Acc:HGNC:11087]	3844	0.77	0.0388	19.7	1.4E-86	4.3E-85
ENSG00000147162	OGT	O-linked N-acetylglucosamine (GlcNAc) transferase [Source:HGNC Symbol;Acc:HGNC:8127]	4849	0.71	0.0359	19.8	7.7E-87	2.4E-85
ENSG00000168209	DDIT4	DNA damage inducible transcript 4 [Source:HGNC Symbol;Acc:HGNC:24944]	2079	0.92	0.0467	19.8	6.4E-87	2.0E-85
ENSG00000165476	REEP3	receptor accessory protein 3 [Source:HGNC Symbol;Acc:HGNC:23711]	1484	1.08	0.0545	19.8	6.0E-87	1.9E-85
ENSG00000175334	BANF1	BAF nuclear assembly factor 1 [Source:HGNC Symbol;Acc:HGNC:17397]	5986	0.63	0.0318	19.8	3.7E-87	1.2E-85
ENSG00000089693	MLF2	myeloid leukemia factor 2 [Source:HGNC Symbol;Acc:HGNC:7126]	7514	0.58	0.0294	19.8	3.0E-87	9.7E-86
ENSG00000006652	IFRD1	interferon related developmental regulator 1 [Source:HGNC Symbol;Acc:HGNC:5456]	2500	0.88	0.0443	19.8	1.9E-87	6.1E-86
ENSG00000138411	HECW2	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:HGNC:2988]	578	1.74	0.0876	19.8	1.1E-87	3.5E-86
ENSG00000099139	PCSK5	proprotein convertase subtilisin/kexin type 5 [Source:HGNC Symbol;Acc:HGNC:8747]	215	5.13	0.2577	19.9	4.1E-88	1.3E-86
ENSG00000119986	AVP11	arginine vasopressin induced 1 [Source:HGNC Symbol;Acc:HGNC:30898]	843	1.40	0.0703	19.9	2.7E-88	8.8E-87
ENSG00000060237	WNK1	WNK lysine deficient protein kinase 1 [Source:HGNC Symbol;Acc:HGNC:14540]	4304	0.70	0.0353	20.0	1.5E-88	4.8E-87
ENSG00000198431	TXNRD1	thioredoxin reductase 1 [Source:HGNC Symbol;Acc:HGNC:12437]	13273	0.53	0.0266	20.0	8.1E-89	2.7E-87
ENSG00000140750	ARHGAP17	Rho GTPase activating protein 17 [Source:HGNC Symbol;Acc:HGNC:18239]	1047	1.27	0.0635	20.0	7.3E-89	2.4E-87
ENSG00000176171	BNIP3	BCL2 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:1084]	2059	0.92	0.0460	20.0	6.5E-89	2.1E-87

ENSG00000143549	TPM3	tropomyosin 3 [Source:HGNC Symbol;Acc:HGNC:12012]	14776	0.53	0.0263	20.1	1.8E-89	6.0E-88
ENSG00000167779	IGFBP6	insulin like growth factor binding protein 6 [Source:HGNC Symbol;Acc:HGNC:5475]	359	2.18	0.1087	20.1	1.4E-89	4.6E-88
ENSG00000214063	TSPAN4	tetraspanin 4 [Source:HGNC Symbol;Acc:HGNC:11859]	758	1.47	0.0731	20.1	1.3E-89	4.2E-88
ENSG00000162337	LRP5	LDL receptor related protein 5 [Source:HGNC Symbol;Acc:HGNC:6697]	3459	0.75	0.0372	20.1	1.1E-89	3.6E-88
ENSG00000107959	PITRM1	pitrilysin metallopeptidase 1 [Source:HGNC Symbol;Acc:HGNC:17663]	1312	1.13	0.0562	20.1	6.1E-90	2.0E-88
ENSG00000168488	ATXN2L	ataxin 2 like [Source:HGNC Symbol;Acc:HGNC:31326]	2482	0.92	0.0460	20.1	5.1E-90	1.7E-88
ENSG00000105559	PLEKHA4	pleckstrin homology domain containing A4 [Source:HGNC Symbol;Acc:HGNC:14339]	338	2.51	0.1246	20.1	3.0E-90	1.0E-88
ENSG00000162614	NEXN	nexilin F-actin binding protein [Source:HGNC Symbol;Acc:HGNC:29557]	323	2.56	0.1268	20.2	2.6E-90	8.8E-89
ENSG00000106397	PLOD3	procollagen-lysine,2-oxoglutarate 5-dioxygenase 3 [Source:HGNC Symbol;Acc:HGNC:9083]	4138	0.73	0.0361	20.3	2.8E-91	9.4E-90
ENSG00000065618	COL17A1	collagen type XVII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2194]	7774	0.59	0.0289	20.3	9.2E-92	3.1E-90
ENSG00000136026	CKAP4	cytoskeleton associated protein 4 [Source:HGNC Symbol;Acc:HGNC:16991]	2995	0.79	0.0389	20.3	6.5E-92	2.2E-90
ENSG00000136231	IGF2BP3	insulin like growth factor 2 mRNA binding protein 3 [Source:HGNC Symbol;Acc:HGNC:28868]	2332	0.93	0.0458	20.4	3.1E-92	1.1E-90
ENSG00000119938	PPP1R3C	protein phosphatase 1 regulatory subunit 3C [Source:HGNC Symbol;Acc:HGNC:9293]	484	1.91	0.0934	20.4	6.6E-93	2.3E-91
ENSG00000112297	CRYBG1	crystallin beta-gamma domain containing 1 [Source:HGNC Symbol;Acc:HGNC:356]	1166	1.23	0.0599	20.5	4.3E-93	1.5E-91
ENSG00000123104	ITPR2	inositol 1,4,5-trisphosphate receptor type 2 [Source:HGNC Symbol;Acc:HGNC:6181]	944	1.45	0.0707	20.5	2.6E-93	9.2E-92
ENSG00000196839	ADA	adenosine deaminase [Source:HGNC Symbol;Acc:HGNC:186]	513	1.87	0.0914	20.5	1.8E-93	6.3E-92
ENSG00000068366	ACSL4	acyl-CoA synthetase long chain family member 4 [Source:HGNC Symbol;Acc:HGNC:3571]	934	1.32	0.0645	20.5	1.6E-93	5.8E-92
ENSG00000232677	LINC00665	long intergenic non-protein coding RNA 665 [Source:HGNC Symbol;Acc:HGNC:44323]	736	1.57	0.0764	20.5	1.3E-93	4.6E-92
ENSG00000185201	IFITM2	interferon induced transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:5413]	642	1.86	0.0904	20.5	9.6E-94	3.4E-92
ENSG00000103266	STUB1	STIP1 homology and U-box containing protein 1 [Source:HGNC Symbol;Acc:HGNC:11427]	791	1.52	0.0739	20.6	3.8E-94	1.3E-92
ENSG00000128487	SPECC1	sperm antigen with calponin homology and coiled-coil domains 1 [Source:HGNC Symbol;Acc:HGNC:306]	1860	1.04	0.0504	20.6	1.5E-94	5.3E-93
ENSG00000136271	DDX56	DEAD-box helicase 56 [Source:HGNC Symbol;Acc:HGNC:18193]	4454	0.74	0.0359	20.6	1.0E-94	3.6E-93
ENSG00000115267	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:HGNC:18873]	2351	0.96	0.0464	20.6	1.0E-94	3.6E-93
ENSG00000057252	SOAT1	sterol O-acyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:11177]	1374	1.12	0.0541	20.7	7.6E-95	2.7E-93
ENSG00000242779	ZNF702P	zinc finger protein 702, pseudogene [Source:HGNC Symbol;Acc:HGNC:25775]	366	2.45	0.1184	20.7	4.3E-95	1.5E-93
ENSG00000106714	CNTNAP3	contactin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:13834]	229	4.80	0.2311	20.8	9.3E-96	3.3E-94
ENSG00000124102	PI3	peptidase inhibitor 3 [Source:HGNC Symbol;Acc:HGNC:8947]	905	1.62	0.0780	20.8	7.0E-96	2.5E-94
ENSG00000205413	SAMD9	sterile alpha motif domain containing 9 [Source:HGNC Symbol;Acc:HGNC:1348]	4293	0.84	0.0405	20.8	2.9E-96	1.1E-94
ENSG00000115457	IGFBP2	insulin like growth factor binding protein 2 [Source:HGNC Symbol;Acc:HGNC:5471]	1971	2.21	0.1060	20.8	1.5E-96	5.6E-95
ENSG00000128284	APOL3	apolipoprotein L3 [Source:HGNC Symbol;Acc:HGNC:14868]	263	3.02	0.1447	20.8	1.5E-96	5.6E-95
ENSG00000033867	SLC4A7	solute carrier family 4 member 7 [Source:HGNC Symbol;Acc:HGNC:11033]	681	1.72	0.0823	20.9	1.5E-96	5.5E-95
ENSG00000077235	GTF3C1	general transcription factor IIIC subunit 1 [Source:HGNC Symbol;Acc:HGNC:4664]	2984	0.89	0.0423	20.9	2.1E-97	7.8E-96
ENSG00000077782	FGFR1	fibroblast growth factor receptor 1 [Source:HGNC Symbol;Acc:HGNC:3688]	696	1.67	0.0799	21.0	1.4E-97	5.3E-96
ENSG00000165996	HACD1	3-hydroxyacyl-CoA dehydratase 1 [Source:HGNC Symbol;Acc:HGNC:9639]	723	1.80	0.0857	21.0	1.4E-97	5.2E-96
ENSG00000019144	PHLDB1	pleckstrin homology like domain family B member 1 [Source:HGNC Symbol;Acc:HGNC:23697]	1346	1.16	0.0554	21.0	1.1E-97	4.2E-96
ENSG00000058085	LAMC2	laminin subunit gamma 2 [Source:HGNC Symbol;Acc:HGNC:6493]	5705	0.68	0.0323	21.0	8.9E-98	3.3E-96
ENSG00000102897	LYRM1	LYR motif containing 1 [Source:HGNC Symbol;Acc:HGNC:25074]	1531	1.14	0.0543	21.0	4.2E-98	1.6E-96
ENSG00000145860	RNF145	ring finger protein 145 [Source:HGNC Symbol;Acc:HGNC:20853]	3750	0.85	0.0402	21.1	8.3E-99	3.1E-97
ENSG00000109472	CPE	carboxypeptidase E [Source:HGNC Symbol;Acc:HGNC:2303]	631	1.77	0.0836	21.1	5.8E-99	2.2E-97
ENSG00000101187	SLC04A1	solute carrier organic anion transporter family member 4A1 [Source:HGNC Symbol;Acc:HGNC:10953]	583	1.78	0.0839	21.2	1.8E-99	6.9E-98
ENSG00000169071	ROR2	receptor tyrosine kinase like orphan receptor 2 [Source:HGNC Symbol;Acc:HGNC:10257]	402	2.19	0.1030	21.2	6.8E-100	2.6E-98
ENSG00000145819	ARHGAP26	Rho GTPase activating protein 26 [Source:HGNC Symbol;Acc:HGNC:17073]	518	1.92	0.0903	21.2	3.8E-100	1.5E-98

ENSG00000198931	APRT	adenine phosphoribosyltransferase [Source:HGNC Symbol;Acc:HGNC:626]	1363	1.19	0.0559	21.3	2.5E-100	9.4E-99
ENSG00000187446	CHP1	calcineurin like EF-hand protein 1 [Source:HGNC Symbol;Acc:HGNC:17433]	4939	0.70	0.0329	21.3	1.2E-100	4.5E-99
ENSG00000126005	MMP24OS	MMP24 opposite strand [Source:HGNC Symbol;Acc:HGNC:44421]	646	1.75	0.0820	21.3	6.9E-101	2.6E-99
ENSG00000161203	AP2M1	adaptor related protein complex 2 subunit mu 1 [Source:HGNC Symbol;Acc:HGNC:564]	12758	0.55	0.0258	21.4	2.6E-101	1.0E-99
ENSG00000182195	LDOC1	LDOC1 regulator of NFKB signaling [Source:HGNC Symbol;Acc:HGNC:6548]	981	1.40	0.0651	21.4	4.6E-102	1.8E-100
ENSG00000073008	PVR	PVR cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:9705]	5688	0.71	0.0329	21.5	3.3E-102	1.3E-100
ENSG00000103148	NPRL3	NPRL3 like, GATOR1 complex subunit [Source:HGNC Symbol;Acc:HGNC:14124]	769	1.56	0.0726	21.5	2.5E-102	9.5E-101
ENSG00000103222	ABCC1	ATP binding cassette subfamily C member 1 [Source:HGNC Symbol;Acc:HGNC:51]	2178	0.97	0.0449	21.5	7.4E-103	2.9E-101
ENSG00000163975	MELTF	melanotransferrin [Source:HGNC Symbol;Acc:HGNC:7037]	1581	1.18	0.0546	21.6	8.3E-104	3.2E-102
ENSG00000157168	NRG1	neuregulin 1 [Source:HGNC Symbol;Acc:HGNC:7997]	251	3.67	0.1694	21.6	8.1E-104	3.2E-102
ENSG00000158747	NBL1	NBL1, DAN family BMP antagonist [Source:HGNC Symbol;Acc:HGNC:7650]	1996	0.99	0.0458	21.6	7.8E-104	3.1E-102
ENSG00000138061	CYP1B1	cytochrome P450 family 1 subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:2597]	5001	0.79	0.0363	21.7	4.0E-104	1.6E-102
ENSG00000048052	HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:HGNC:14065]	277	3.03	0.1394	21.8	6.8E-105	2.7E-103
ENSG00000107937	GTPBP4	GTP binding protein 4 [Source:HGNC Symbol;Acc:HGNC:21535]	2343	0.94	0.0431	21.8	3.9E-105	1.5E-103
ENSG00000196535	MYO18A	myosin XVIIIa [Source:HGNC Symbol;Acc:HGNC:31104]	2130	0.99	0.0453	21.8	1.4E-105	5.7E-104
ENSG00000139278	GLIPR1	GLI pathogenesis related 1 [Source:HGNC Symbol;Acc:HGNC:17001]	692	1.69	0.0771	22.0	7.4E-107	3.0E-105
ENSG00000118495	PLAGL1	PLAG1 like zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:9046]	821	1.64	0.0748	22.0	6.3E-107	2.5E-105
ENSG00000100726	TELO2	telomere maintenance 2 [Source:HGNC Symbol;Acc:HGNC:29099]	1213	1.31	0.0594	22.0	4.1E-107	1.6E-105
ENSG00000178150	ZNF114	zinc finger protein 114 [Source:HGNC Symbol;Acc:HGNC:12894]	650	1.73	0.0788	22.0	3.2E-107	1.3E-105
ENSG00000103507	BCKDK	branched chain keto acid dehydrogenase kinase [Source:HGNC Symbol;Acc:HGNC:16902]	962	1.41	0.0641	22.0	2.8E-107	1.1E-105
ENSG00000246705	H2AJ	H2A.J histone [Source:HGNC Symbol;Acc:HGNC:14456]	3500	0.86	0.0389	22.0	1.8E-107	7.5E-106
ENSG00000109586	GALNT7	polypeptide N-acetylgalactosaminyltransferase 7 [Source:HGNC Symbol;Acc:HGNC:4129]	2312	0.99	0.0449	22.0	1.3E-107	5.4E-106
ENSG00000169504	CLIC4	chloride intracellular channel 4 [Source:HGNC Symbol;Acc:HGNC:13518]	3583	0.85	0.0384	22.1	4.0E-108	1.6E-106
ENSG00000163710	PCOLCE2	procollagen C-endopeptidase enhancer 2 [Source:HGNC Symbol;Acc:HGNC:8739]	290	3.33	0.1508	22.1	3.0E-108	1.2E-106
ENSG00000176842	IRX5	iroquois homeobox 5 [Source:HGNC Symbol;Acc:HGNC:14361]	344	2.68	0.1210	22.1	1.5E-108	6.1E-107
ENSG00000153406	NMRAL1	NmrA like redox sensor 1 [Source:HGNC Symbol;Acc:HGNC:24987]	1123	1.56	0.0706	22.2	6.8E-109	2.8E-107
ENSG00000135919	SERPINE2	serpin family E member 2 [Source:HGNC Symbol;Acc:HGNC:8951]	1154	1.47	0.0663	22.2	4.7E-109	2.0E-107
ENSG00000169567	HINT1	histidine triad nucleotide binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4912]	5241	0.84	0.0378	22.2	3.3E-109	1.4E-107
ENSG00000096433	ITPR3	inositol 1,4,5-trisphosphate receptor type 3 [Source:HGNC Symbol;Acc:HGNC:6182]	3022	0.94	0.0422	22.2	1.2E-109	4.9E-108
ENSG00000076067	RBMS2	RNA binding motif single stranded interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:9909]	1175	1.36	0.0610	22.3	7.9E-110	3.3E-108
ENSG00000101974	ATP11C	ATPase phospholipid transporting 11C [Source:HGNC Symbol;Acc:HGNC:13554]	258	4.25	0.1906	22.3	5.3E-110	2.2E-108
ENSG00000106351	AGFG2	ArfGAP with FG repeats 2 [Source:HGNC Symbol;Acc:HGNC:5177]	1400	1.28	0.0574	22.3	3.7E-110	1.6E-108
ENSG00000163513	TGFBR2	transforming growth factor beta receptor 2 [Source:HGNC Symbol;Acc:HGNC:11773]	3254	0.85	0.0382	22.3	1.7E-110	7.2E-109
ENSG00000175745	NR2F1	nuclear receptor subfamily 2 group F member 1 [Source:HGNC Symbol;Acc:HGNC:7975]	253	4.11	0.1840	22.3	1.6E-110	6.9E-109
ENSG00000101986	ABCD1	ATP binding cassette subfamily D member 1 [Source:HGNC Symbol;Acc:HGNC:61]	504	2.17	0.0970	22.4	6.2E-111	2.7E-109
ENSG00000105143	SLC1A6	solute carrier family 1 member 6 [Source:HGNC Symbol;Acc:HGNC:10944]	381	2.46	0.1098	22.4	3.7E-111	1.6E-109
ENSG00000148841	ITPRIP	inositol 1,4,5-trisphosphate receptor interacting protein [Source:HGNC Symbol;Acc:HGNC:29370]	352	2.72	0.1215	22.4	3.2E-111	1.4E-109
ENSG00000163430	FSTL1	folliculin like 1 [Source:HGNC Symbol;Acc:HGNC:3972]	8718	0.65	0.0287	22.5	6.6E-112	2.8E-110
ENSG00000163235	TGFA	transforming growth factor alpha [Source:HGNC Symbol;Acc:HGNC:11765]	3042	0.96	0.0427	22.5	5.4E-112	2.4E-110
ENSG00000174938	SEZ6L2	seizure related 6 homolog like 2 [Source:HGNC Symbol;Acc:HGNC:30844]	955	1.61	0.0715	22.5	5.0E-112	2.2E-110
ENSG00000136295	TTYH3	tweety family member 3 [Source:HGNC Symbol;Acc:HGNC:22222]	2966	0.96	0.0428	22.5	5.0E-112	2.2E-110
ENSG00000128791	TWSG1	twisted gastrulation BMP signaling modulator 1 [Source:HGNC Symbol;Acc:HGNC:12429]	2219	0.99	0.0440	22.6	1.2E-112	5.2E-111

ENSG00000090905	TNRC6A	trinucleotide repeat containing adaptor 6A [Source:HGNC Symbol;Acc:HGNC:11969]	1882	1.09	0.0481	22.6	1.1E-112	4.8E-111
ENSG00000156515	HK1	hexokinase 1 [Source:HGNC Symbol;Acc:HGNC:4922]	5744	0.77	0.0343	22.6	1.0E-112	4.5E-111
ENSG00000108518	PFN1	profilin 1 [Source:HGNC Symbol;Acc:HGNC:8881]	20329	0.53	0.0233	22.6	7.7E-113	3.4E-111
ENSG00000111331	OAS3	2'-5'-oligoadenylate synthetase 3 [Source:HGNC Symbol;Acc:HGNC:8088]	10870	0.62	0.0273	22.6	1.9E-113	8.7E-112
ENSG00000127564	PKMYT1	protein kinase, membrane associated tyrosine/threonine 1 [Source:HGNC Symbol;Acc:HGNC:29650]	1443	1.33	0.0586	22.7	7.8E-114	3.5E-112
ENSG00000134531	EMP1	epithelial membrane protein 1 [Source:HGNC Symbol;Acc:HGNC:3333]	4647	0.87	0.0383	22.7	6.4E-114	2.9E-112
ENSG00000261040	WFDC21P	WAP four-disulfide core domain 21, pseudogene [Source:HGNC Symbol;Acc:HGNC:50357]	258	4.11	0.1810	22.7	2.7E-114	1.2E-112
ENSG00000184368	MAP7D2	MAP7 domain containing 2 [Source:HGNC Symbol;Acc:HGNC:25899]	265	3.79	0.1663	22.8	7.9E-115	3.6E-113
ENSG00000168453	HR	HR lysine demethylase and nuclear receptor corepressor [Source:HGNC Symbol;Acc:HGNC:5172]	477	2.30	0.1006	22.8	3.9E-115	1.8E-113
ENSG00000125166	GOT2	glutamic-oxaloacetic transaminase 2 [Source:HGNC Symbol;Acc:HGNC:4433]	3483	0.94	0.0410	22.8	1.7E-115	7.9E-114
ENSG00000237515	SHISA9	shisa family member 9 [Source:HGNC Symbol;Acc:HGNC:37231]	669	1.79	0.0782	22.9	1.5E-115	6.7E-114
ENSG00000140983	RHOT2	ras homolog family member T2 [Source:HGNC Symbol;Acc:HGNC:21169]	1731	1.14	0.0500	22.9	1.3E-115	5.9E-114
ENSG00000161091	MFSD12	major facilitator superfamily domain containing 12 [Source:HGNC Symbol;Acc:HGNC:28299]	1258	1.28	0.0562	22.9	1.3E-115	5.8E-114
ENSG00000170027	YWHAG	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma [Source:HGNC Syn	7709	0.70	0.0307	22.9	7.3E-116	3.4E-114
ENSG00000101150	TPD52L2	TPD52 like 2 [Source:HGNC Symbol;Acc:HGNC:12007]	7075	0.75	0.0328	23.0	1.1E-116	5.1E-115
ENSG00000128641	MYO1B	myosin IB [Source:HGNC Symbol;Acc:HGNC:7596]	6608	0.74	0.0319	23.1	9.8E-118	4.6E-116
ENSG00000148346	LCN2	lipocalin 2 [Source:HGNC Symbol;Acc:HGNC:6526]	276	4.64	0.2011	23.1	7.5E-118	3.5E-116
ENSG00000089280	FUS	FUS RNA binding protein [Source:HGNC Symbol;Acc:HGNC:4010]	9700	0.70	0.0301	23.1	2.6E-118	1.2E-116
ENSG00000167965	MLST8	MTOR associated protein, LST8 homolog [Source:HGNC Symbol;Acc:HGNC:24825]	1172	1.35	0.0584	23.1	1.8E-118	8.5E-117
ENSG00000102900	NUP93	nucleoporin 93 [Source:HGNC Symbol;Acc:HGNC:28958]	3437	0.95	0.0409	23.3	2.3E-120	1.1E-118
ENSG00000140105	WARS1	tryptophanyl-tRNA synthetase 1 [Source:HGNC Symbol;Acc:HGNC:12729]	4063	0.81	0.0348	23.3	2.2E-120	1.0E-118
ENSG00000158089	GALNT14	polypeptide N-acetylgalactosaminyltransferase 14 [Source:HGNC Symbol;Acc:HGNC:22946]	586	2.05	0.0878	23.4	1.0E-120	5.0E-119
ENSG00000164237	CMBL	carboxymethylenebutenolidase homolog [Source:HGNC Symbol;Acc:HGNC:25090]	1503	1.26	0.0537	23.4	8.0E-121	3.9E-119
ENSG00000148468	FAM171A1	family with sequence similarity 171 member A1 [Source:HGNC Symbol;Acc:HGNC:23522]	784	1.78	0.0762	23.4	7.2E-121	3.5E-119
ENSG00000187498	COL4A1	collagen type IV alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2202]	1450	1.28	0.0545	23.5	1.1E-121	5.3E-120
ENSG00000134308	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta [Source:HGNC Symb	11680	0.63	0.0268	23.5	1.4E-122	6.8E-121
ENSG00000143153	ATP1B1	ATPase Na ⁺ /K ⁺ transporting subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:804]	4183	2.20	0.0934	23.5	1.4E-122	6.8E-121
ENSG00000142798	HSPG2	heparan sulfate proteoglycan 2 [Source:HGNC Symbol;Acc:HGNC:5273]	5459	0.83	0.0352	23.6	3.9E-123	1.9E-121
ENSG00000142089	IFITM3	interferon induced transmembrane protein 3 [Source:HGNC Symbol;Acc:HGNC:5414]	6323	0.75	0.0315	23.7	1.9E-124	9.3E-123
ENSG00000134871	COL4A2	collagen type IV alpha 2 chain [Source:HGNC Symbol;Acc:HGNC:2203]	3036	0.96	0.0406	23.8	7.9E-125	4.0E-123
ENSG00000105519	CAPS	calcyphosine [Source:HGNC Symbol;Acc:HGNC:1487]	589	2.05	0.0859	23.8	1.7E-125	8.7E-124
ENSG00000103363	ELOB	elongin B [Source:HGNC Symbol;Acc:HGNC:11619]	3582	0.95	0.0400	23.8	1.1E-125	5.5E-124
ENSG00000144959	NCEH1	neutral cholesterol ester hydrolase 1 [Source:HGNC Symbol;Acc:HGNC:29260]	1483	1.33	0.0556	23.9	1.8E-126	9.1E-125
ENSG00000187555	USP7	ubiquitin specific peptidase 7 [Source:HGNC Symbol;Acc:HGNC:12630]	2330	1.07	0.0446	24.0	2.7E-127	1.4E-125
ENSG00000187957	DNER	delta/notch like EGF repeat containing [Source:HGNC Symbol;Acc:HGNC:24456]	593	2.03	0.0845	24.0	1.2E-127	6.4E-126
ENSG00000160691	SHC1	SHC adaptor protein 1 [Source:HGNC Symbol;Acc:HGNC:10840]	2077	1.08	0.0449	24.1	3.7E-128	1.9E-126
ENSG00000169217	CD2BP2	CD2 cytoplasmic tail binding protein 2 [Source:HGNC Symbol;Acc:HGNC:1656]	2330	1.08	0.0446	24.1	1.5E-128	7.8E-127
ENSG00000198363	ASPH	aspartate beta-hydroxylase [Source:HGNC Symbol;Acc:HGNC:757]	6440	0.77	0.0319	24.2	4.2E-129	2.2E-127
ENSG00000174939	ASPHD1	aspartate beta-hydroxylase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:27380]	325	3.30	0.1361	24.2	1.1E-129	6.0E-128
ENSG00000087245	MMP2	matrix metalloproteinase 2 [Source:HGNC Symbol;Acc:HGNC:7166]	590	2.16	0.0884	24.4	2.6E-131	1.4E-129
ENSG00000103549	RNF40	ring finger protein 40 [Source:HGNC Symbol;Acc:HGNC:16867]	2542	1.02	0.0418	24.4	1.8E-131	9.8E-130
ENSG00000205937	RNPS1	RNA binding protein with serine rich domain 1 [Source:HGNC Symbol;Acc:HGNC:10080]	3401	0.91	0.0372	24.4	1.6E-131	8.8E-130

ENSG00000125148	MT2A	metallothionein 2A [Source:HGNC Symbol;Acc:HGNC:7406]	5618	0.95	0.0387	24.4	5.7E-132	3.1E-130
ENSG00000197582	GPX1P1	glutathione peroxidase pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:4560]	939	1.74	0.0711	24.5	1.4E-132	7.3E-131
ENSG00000099250	NRP1	neuropilin 1 [Source:HGNC Symbol;Acc:HGNC:8004]	491	2.43	0.0990	24.6	2.8E-133	1.5E-131
ENSG00000105953	OGDH	oxoglutarate dehydrogenase [Source:HGNC Symbol;Acc:HGNC:8124]	6012	0.82	0.0333	24.6	3.8E-134	2.0E-132
ENSG00000104447	TRPS1	transcriptional repressor GATA binding 1 [Source:HGNC Symbol;Acc:HGNC:12340]	332	5.18	0.2100	24.7	2.4E-134	1.3E-132
ENSG00000130175	PRKCSH	protein kinase C substrate 80K-H [Source:HGNC Symbol;Acc:HGNC:9411]	7867	0.71	0.0290	24.7	1.6E-134	8.9E-133
ENSG00000111335	OAS2	2'-5'-oligoadenylate synthetase 2 [Source:HGNC Symbol;Acc:HGNC:8087]	2932	1.05	0.0424	24.7	8.0E-135	4.4E-133
ENSG00000071127	WDR1	WD repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:12754]	17096	0.68	0.0273	24.7	3.3E-135	1.8E-133
ENSG00000086504	MRPL28	mitochondrial ribosomal protein L28 [Source:HGNC Symbol;Acc:HGNC:14484]	1745	1.31	0.0529	24.8	1.5E-135	8.3E-134
ENSG00000166289	PLEKHF1	pleckstrin homology and FYVE domain containing 1 [Source:HGNC Symbol;Acc:HGNC:20764]	700	1.90	0.0768	24.8	9.7E-136	5.4E-134
ENSG00000138646	HERC5	HECT and RLD domain containing E3 ubiquitin protein ligase 5 [Source:HGNC Symbol;Acc:HGNC:24368]	2035	1.23	0.0495	24.9	7.1E-137	4.0E-135
ENSG00000172819	RARG	retinoic acid receptor gamma [Source:HGNC Symbol;Acc:HGNC:9866]	2075	1.16	0.0465	24.9	3.3E-137	1.9E-135
ENSG00000122863	CHST3	carbohydrate sulfotransferase 3 [Source:HGNC Symbol;Acc:HGNC:1971]	1630	1.28	0.0514	25.0	1.6E-137	8.9E-136
ENSG00000178952	TUFM	Tu translation elongation factor, mitochondrial [Source:HGNC Symbol;Acc:HGNC:12420]	3601	1.09	0.0435	25.0	1.4E-137	8.2E-136
ENSG00000128656	CHN1	chimerin 1 [Source:HGNC Symbol;Acc:HGNC:1943]	321	4.65	0.1862	25.0	9.3E-138	5.3E-136
ENSG00000113070	HBEGF	heparin binding EGF like growth factor [Source:HGNC Symbol;Acc:HGNC:3059]	854	1.85	0.0740	25.1	1.5E-138	8.6E-137
ENSG00000077238	IL4R	interleukin 4 receptor [Source:HGNC Symbol;Acc:HGNC:6015]	1047	1.58	0.0630	25.1	5.2E-139	3.1E-137
ENSG00000198517	MAFK	MAF bZIP transcription factor K [Source:HGNC Symbol;Acc:HGNC:6782]	2180	1.13	0.0449	25.1	3.3E-139	1.9E-137
ENSG00000173482	PTPRM	protein tyrosine phosphatase receptor type M [Source:HGNC Symbol;Acc:HGNC:9675]	1221	1.54	0.0612	25.1	2.9E-139	1.7E-137
ENSG00000075624	ACTB	actin beta [Source:HGNC Symbol;Acc:HGNC:132]	163129	0.60	0.0240	25.2	1.2E-139	7.1E-138
ENSG00000176014	TUBB6	tubulin beta 6 class V [Source:HGNC Symbol;Acc:HGNC:20776]	7400	0.77	0.0304	25.3	3.3E-141	1.9E-139
ENSG00000139211	AMIGO2	adhesion molecule with Ig like domain 2 [Source:HGNC Symbol;Acc:HGNC:24073]	1189	1.63	0.0642	25.3	1.7E-141	1.0E-139
ENSG00000034152	MAP2K3	mitogen-activated protein kinase kinase 3 [Source:HGNC Symbol;Acc:HGNC:6843]	1474	1.41	0.0555	25.3	1.3E-141	7.6E-140
ENSG00000172380	GNG12	G protein subunit gamma 12 [Source:HGNC Symbol;Acc:HGNC:19663]	2371	1.09	0.0429	25.3	1.0E-141	6.2E-140
ENSG00000157601	MX1	MX dynamin like GTPase 1 [Source:HGNC Symbol;Acc:HGNC:7532]	11370	0.71	0.0279	25.5	6.3E-143	3.8E-141
ENSG00000069011	PITX1	paired like homeodomain 1 [Source:HGNC Symbol;Acc:HGNC:9004]	733	2.09	0.0820	25.5	3.0E-143	1.8E-141
ENSG00000169515	CCDC8	coiled-coil domain containing 8 [Source:HGNC Symbol;Acc:HGNC:25367]	334	4.27	0.1676	25.5	2.7E-143	1.6E-141
ENSG00000161011	SQSTM1	sequestosome 1 [Source:HGNC Symbol;Acc:HGNC:11280]	1630	1.35	0.0528	25.5	2.2E-143	1.4E-141
ENSG00000140990	NDUFB10	NADH:ubiquinone oxidoreductase subunit B10 [Source:HGNC Symbol;Acc:HGNC:7696]	1717	1.38	0.0538	25.6	1.4E-144	8.7E-143
ENSG00000170017	ALCAM	activated leukocyte cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:400]	584	2.24	0.0874	25.7	3.3E-145	2.1E-143
ENSG00000141401	IMPA2	inositol monophosphatase 2 [Source:HGNC Symbol;Acc:HGNC:6051]	1527	1.56	0.0606	25.8	2.0E-146	1.3E-144
ENSG00000140950	MEAK7	MTOR associated protein, eak-7 homolog [Source:HGNC Symbol;Acc:HGNC:29325]	560	2.42	0.0937	25.8	1.3E-146	8.5E-145
ENSG00000110446	SLC15A3	solute carrier family 15 member 3 [Source:HGNC Symbol;Acc:HGNC:18068]	710	2.06	0.0795	25.8	2.6E-147	1.6E-145
ENSG00000179604	CDC42EP4	CDC42 effector protein 4 [Source:HGNC Symbol;Acc:HGNC:17147]	789	1.89	0.0730	25.9	1.3E-147	8.4E-146
ENSG00000198142	SOWAHC	sosonowah ankyrin repeat domain family member C [Source:HGNC Symbol;Acc:HGNC:26149]	1285	1.51	0.0584	25.9	1.3E-147	8.1E-146
ENSG00000101608	MYL12A	myosin light chain 12A [Source:HGNC Symbol;Acc:HGNC:16701]	4258	1.02	0.0394	25.9	3.9E-148	2.5E-146
ENSG00000131459	GFPT2	glutamine-fructose-6-phosphate transaminase 2 [Source:HGNC Symbol;Acc:HGNC:4242]	362	3.78	0.1454	26.0	2.9E-149	1.9E-147
ENSG00000177200	CHD9	chromodomain helicase DNA binding protein 9 [Source:HGNC Symbol;Acc:HGNC:25701]	1271	1.50	0.0574	26.1	3.1E-150	2.0E-148
ENSG00000124201	ZNFX1	zinc finger NFX1-type containing 1 [Source:HGNC Symbol;Acc:HGNC:29271]	6916	0.76	0.0292	26.2	7.3E-151	4.8E-149
ENSG00000189067	LITAF	lipopolysaccharide induced TNF factor [Source:HGNC Symbol;Acc:HGNC:16841]	9907	0.76	0.0289	26.2	1.1E-151	7.6E-150
ENSG00000116962	NID1	nidogen 1 [Source:HGNC Symbol;Acc:HGNC:7821]	1525	1.46	0.0556	26.3	2.2E-152	1.5E-150
ENSG00000138834	MAPK8IP3	mitogen-activated protein kinase 8 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:6884]	1507	1.45	0.0549	26.4	7.1E-154	4.7E-152

ENSG00000008394	MGST1	microsomal glutathione S-transferase 1 [Source:HGNC Symbol;Acc:HGNC:7061]	3584	1.00	0.0379	26.5	3.4E-154	2.3E-152
ENSG00000197077	KIAA1671	KIAA1671 [Source:HGNC Symbol;Acc:HGNC:29345]	2712	1.18	0.0445	26.6	4.3E-156	2.9E-154
ENSG00000181163	NPM1	nucleophosmin 1 [Source:HGNC Symbol;Acc:HGNC:7910]	36884	0.67	0.0251	26.7	7.7E-157	5.2E-155
ENSG00000175592	FOSL1	FOS like 1, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:13718]	506	2.78	0.1040	26.7	2.5E-157	1.7E-155
ENSG00000171867	PRNP	prion protein [Source:HGNC Symbol;Acc:HGNC:9449]	2822	1.14	0.0423	26.9	5.7E-159	4.0E-157
ENSG00000242265	PEG10	paternally expressed 10 [Source:HGNC Symbol;Acc:HGNC:14005]	7937	0.84	0.0313	26.9	2.9E-159	2.1E-157
ENSG00000108175	ZMIZ1	zinc finger MIZ-type containing 1 [Source:HGNC Symbol;Acc:HGNC:16493]	936	1.95	0.0726	26.9	2.1E-159	1.5E-157
ENSG00000114353	GNAI2	G protein subunit alpha i2 [Source:HGNC Symbol;Acc:HGNC:4385]	2410	1.19	0.0441	27.0	4.1E-161	2.9E-159
ENSG00000147454	SLC25A37	solute carrier family 25 member 37 [Source:HGNC Symbol;Acc:HGNC:29786]	1527	1.54	0.0569	27.1	1.2E-161	8.8E-160
ENSG00000106266	SNX8	sorting nexin 8 [Source:HGNC Symbol;Acc:HGNC:14972]	3394	1.08	0.0398	27.2	4.9E-163	3.5E-161
ENSG00000072682	P4HA2	prolyl 4-hydroxylase subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:8547]	1464	1.52	0.0555	27.4	3.0E-165	2.1E-163
ENSG00000104998	IL27RA	interleukin 27 receptor subunit alpha [Source:HGNC Symbol;Acc:HGNC:17290]	750	2.13	0.0776	27.4	2.7E-165	2.0E-163
ENSG00000104419	NDRG1	N-myc downstream regulated 1 [Source:HGNC Symbol;Acc:HGNC:7679]	7384	0.82	0.0298	27.4	1.7E-165	1.2E-163
ENSG00000134668	SPOCD1	SPOC domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26338]	482	3.02	0.1098	27.4	7.2E-166	5.3E-164
ENSG00000170525	PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 [Source:HGNC Symbol;Acc:HGNC:8874]	993	1.80	0.0653	27.5	8.8E-167	6.6E-165
ENSG00000151491	EPS8	epidermal growth factor receptor pathway substrate 8 [Source:HGNC Symbol;Acc:HGNC:3420]	811	2.02	0.0733	27.5	7.4E-167	5.5E-165
ENSG00000153048	CARHSP1	calcium regulated heat stable protein 1 [Source:HGNC Symbol;Acc:HGNC:17150]	1459	1.57	0.0570	27.5	4.6E-167	3.4E-165
ENSG00000184254	ALDH1A3	aldehyde dehydrogenase 1 family member A3 [Source:HGNC Symbol;Acc:HGNC:409]	717	2.28	0.0826	27.6	3.0E-167	2.3E-165
ENSG00000103342	GSPT1	G1 to S phase transition 1 [Source:HGNC Symbol;Acc:HGNC:4621]	8374	0.84	0.0304	27.6	7.7E-168	5.8E-166
ENSG00000169180	XPO6	exportin 6 [Source:HGNC Symbol;Acc:HGNC:19733]	3122	1.07	0.0389	27.6	5.2E-168	4.0E-166
ENSG00000127418	FGFRL1	fibroblast growth factor receptor like 1 [Source:HGNC Symbol;Acc:HGNC:3693]	615	2.52	0.0908	27.8	1.6E-169	1.2E-167
ENSG00000266412	NCOA4	nuclear receptor coactivator 4 [Source:HGNC Symbol;Acc:HGNC:7671]	2967	1.13	0.0405	28.0	6.4E-172	4.9E-170
ENSG00000011422	PLAUR	plasminogen activator, urokinase receptor [Source:HGNC Symbol;Acc:HGNC:9053]	1699	1.59	0.0568	28.0	5.0E-172	3.9E-170
ENSG00000172137	CALB2	calbindin 2 [Source:HGNC Symbol;Acc:HGNC:1435]	430	3.78	0.1339	28.2	2.7E-175	2.1E-173
ENSG00000179820	MYADM	myeloid associated differentiation marker [Source:HGNC Symbol;Acc:HGNC:7544]	1929	1.40	0.0494	28.2	1.8E-175	1.4E-173
ENSG00000243566	UPK3B	uroplakin 3B [Source:HGNC Symbol;Acc:HGNC:21444]	3281	1.12	0.0396	28.4	5.4E-177	4.3E-175
ENSG00000139926	FRMD6	FERM domain containing 6 [Source:HGNC Symbol;Acc:HGNC:19839]	1662	1.48	0.0521	28.4	1.1E-177	8.4E-176
ENSG00000134333	LDHA	lactate dehydrogenase A [Source:HGNC Symbol;Acc:HGNC:6535]	28504	0.78	0.0273	28.5	4.0E-178	3.2E-176
ENSG00000148484	RSU1	Ras suppressor protein 1 [Source:HGNC Symbol;Acc:HGNC:10464]	1566	1.64	0.0574	28.5	1.3E-178	1.0E-176
ENSG00000127022	CANX	calnexin [Source:HGNC Symbol;Acc:HGNC:1473]	7732	0.81	0.0284	28.5	6.6E-179	5.4E-177
ENSG00000182963	GJC1	gap junction protein gamma 1 [Source:HGNC Symbol;Acc:HGNC:4280]	617	2.58	0.0904	28.6	9.4E-180	7.6E-178
ENSG00000130707	ASS1	argininosuccinate synthase 1 [Source:HGNC Symbol;Acc:HGNC:758]	573	2.74	0.0953	28.8	7.9E-182	6.6E-180
ENSG00000075618	FSCN1	fascin actin-bundling protein 1 [Source:HGNC Symbol;Acc:HGNC:11148]	2464	1.35	0.0467	28.8	6.1E-183	5.1E-181
ENSG00000124831	LRRFIP1	LRR binding FLLI interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:6702]	2235	1.40	0.0484	28.9	3.1E-184	2.6E-182
ENSG00000125844	RRBP1	ribosome binding protein 1 [Source:HGNC Symbol;Acc:HGNC:10448]	4902	0.97	0.0335	28.9	3.0E-184	2.6E-182
ENSG00000149923	PPP4C	protein phosphatase 4 catalytic subunit [Source:HGNC Symbol;Acc:HGNC:9319]	3681	1.11	0.0382	29.1	1.0E-186	9.1E-185
ENSG00000184009	ACTG1	actin gamma 1 [Source:HGNC Symbol;Acc:HGNC:144]	70259	0.78	0.0268	29.2	2.3E-187	2.0E-185
ENSG00000147650	LRP12	LDL receptor related protein 12 [Source:HGNC Symbol;Acc:HGNC:31708]	626	2.63	0.0902	29.2	1.5E-187	1.3E-185
ENSG00000106608	URGCP	upregulator of cell proliferation [Source:HGNC Symbol;Acc:HGNC:30890]	2289	1.31	0.0446	29.3	1.4E-188	1.2E-186
ENSG00000171314	PGAM1	phosphoglycerate mutase 1 [Source:HGNC Symbol;Acc:HGNC:8888]	15201	0.79	0.0268	29.3	5.2E-189	4.6E-187
ENSG00000138193	PLCE1	phospholipase C epsilon 1 [Source:HGNC Symbol;Acc:HGNC:17175]	527	3.17	0.1081	29.3	3.2E-189	2.9E-187
ENSG00000206053	JPT2	Jupiter microtubule associated homolog 2 [Source:HGNC Symbol;Acc:HGNC:14137]	3005	1.22	0.0417	29.4	2.1E-189	1.9E-187

ENSG00000196924	FLNA	filamin A [Source:HGNC Symbol;Acc:HGNC:3754]	39304	0.79	0.0268	29.4	1.7E-189	1.5E-187
ENSG00000137965	IFI44	interferon induced protein 44 [Source:HGNC Symbol;Acc:HGNC:16938]	2766	1.22	0.0417	29.4	1.4E-189	1.3E-187
ENSG00000197930	ERO1A	endoplasmic reticulum oxidoreductase 1 alpha [Source:HGNC Symbol;Acc:HGNC:13280]	2796	1.23	0.0417	29.5	1.2E-191	1.2E-189
ENSG00000169813	HNRNPF	heterogeneous nuclear ribonucleoprotein F [Source:HGNC Symbol;Acc:HGNC:5039]	4141	1.05	0.0356	29.5	1.2E-191	1.1E-189
ENSG00000140682	TGFB11	transforming growth factor beta 1 induced transcript 1 [Source:HGNC Symbol;Acc:HGNC:11767]	755	2.31	0.0779	29.6	1.3E-192	1.3E-190
ENSG00000106052	TAX1BP1	Tax1 binding protein 1 [Source:HGNC Symbol;Acc:HGNC:11575]	6852	0.87	0.0293	29.6	4.3E-193	4.0E-191
ENSG00000088340	FER1L4	fer-1 like family member 4 (pseudogene) [Source:HGNC Symbol;Acc:HGNC:15801]	778	2.34	0.0788	29.7	3.2E-193	3.1E-191
ENSG00000107863	ARHGAP21	Rho GTPase activating protein 21 [Source:HGNC Symbol;Acc:HGNC:23725]	3293	1.19	0.0400	29.7	1.6E-193	1.6E-191
ENSG00000156928	MALSU1	mitochondrial assembly of ribosomal large subunit 1 [Source:HGNC Symbol;Acc:HGNC:21721]	2791	1.23	0.0414	29.7	1.1E-193	1.1E-191
ENSG00000167772	ANGPTL4	angiopoietin like 4 [Source:HGNC Symbol;Acc:HGNC:16039]	637	2.67	0.0897	29.7	4.6E-194	4.4E-192
ENSG00000111341	MGP	matrix Gla protein [Source:HGNC Symbol;Acc:HGNC:7060]	475	3.78	0.1265	29.9	1.6E-196	1.6E-194
ENSG00000251562	MALAT1	metastasis associated lung adenocarcinoma transcript 1 [Source:HGNC Symbol;Acc:HGNC:29665]	7168	0.96	0.0321	30.0	1.3E-197	1.3E-195
ENSG00000136193	SCRN1	secernin 1 [Source:HGNC Symbol;Acc:HGNC:22192]	7964	0.89	0.0296	30.0	2.7E-198	2.6E-196
ENSG00000164251	F2RL1	F2R like trypsin receptor 1 [Source:HGNC Symbol;Acc:HGNC:3538]	1423	1.77	0.0586	30.2	7.1E-201	7.0E-199
ENSG00000051523	CYBA	cytochrome b-245 alpha chain [Source:HGNC Symbol;Acc:HGNC:2577]	940	2.44	0.0803	30.3	7.3E-202	7.2E-200
ENSG00000173599	PC	pyruvate carboxylase [Source:HGNC Symbol;Acc:HGNC:8636]	1095	2.03	0.0667	30.4	1.3E-203	1.3E-201
ENSG00000168610	STAT3	signal transducer and activator of transcription 3 [Source:HGNC Symbol;Acc:HGNC:11364]	5517	1.02	0.0334	30.5	3.1E-204	3.1E-202
ENSG00000198796	ALPK2	alpha kinase 2 [Source:HGNC Symbol;Acc:HGNC:20565]	588	3.08	0.1011	30.5	1.2E-204	1.2E-202
ENSG00000213281	NRAS	NRAS proto-oncogene, GTPase [Source:HGNC Symbol;Acc:HGNC:7989]	1331	2.02	0.0662	30.5	6.2E-205	6.3E-203
ENSG00000167978	SRRM2	serine/arginine repetitive matrix 2 [Source:HGNC Symbol;Acc:HGNC:16639]	7770	1.09	0.0357	30.6	4.5E-206	4.6E-204
ENSG00000125753	VASP	vasodilator stimulated phosphoprotein [Source:HGNC Symbol;Acc:HGNC:12652]	3894	1.14	0.0373	30.7	1.4E-206	1.5E-204
ENSG00000130589	HELZ2	helicase with zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:30021]	8214	0.92	0.0299	30.7	2.0E-207	2.1E-205
ENSG00000144821	MYH15	myosin heavy chain 15 [Source:HGNC Symbol;Acc:HGNC:31073]	901	2.18	0.0705	31.0	1.3E-210	1.4E-208
ENSG00000072786	STK10	serine/threonine kinase 10 [Source:HGNC Symbol;Acc:HGNC:11388]	2391	1.36	0.0439	31.1	3.8E-212	4.0E-210
ENSG00000106049	HIBADH	3-hydroxyisobutyrate dehydrogenase [Source:HGNC Symbol;Acc:HGNC:4907]	1531	1.78	0.0570	31.3	1.4E-214	1.5E-212
ENSG00000186522	SEPTIN10	septin 10 [Source:HGNC Symbol;Acc:HGNC:14349]	1369	1.82	0.0577	31.5	7.7E-218	8.3E-216
ENSG00000245532	NEAT1	nuclear paraspeckle assembly transcript 1 [Source:HGNC Symbol;Acc:HGNC:30815]	10836	0.98	0.0308	31.6	1.1E-219	1.2E-217
ENSG00000076706	MCAM	melanoma cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:6934]	830	2.55	0.0799	31.9	9.9E-223	1.1E-220
ENSG00000159200	RCAN1	regulator of calcineurin 1 [Source:HGNC Symbol;Acc:HGNC:3040]	1592	1.76	0.0549	32.0	3.3E-224	3.7E-222
ENSG00000164543	STK17A	serine/threonine kinase 17a [Source:HGNC Symbol;Acc:HGNC:11395]	974	2.21	0.0688	32.1	2.6E-226	2.9E-224
ENSG00000181019	NQO1	NAD(P)H quinone dehydrogenase 1 [Source:HGNC Symbol;Acc:HGNC:2874]	9500	1.06	0.0327	32.6	1.9E-232	2.2E-230
ENSG00000161638	ITGA5	integrin subunit alpha 5 [Source:HGNC Symbol;Acc:HGNC:6141]	1365	2.17	0.0667	32.6	1.3E-232	1.5E-230
ENSG00000145287	PLAC8	placenta associated 8 [Source:HGNC Symbol;Acc:HGNC:19254]	1595	1.78	0.0545	32.7	4.4E-234	5.1E-232
ENSG00000128595	CALU	calumenin [Source:HGNC Symbol;Acc:HGNC:1458]	11247	0.84	0.0257	32.7	3.8E-234	4.5E-232
ENSG00000176463	SLCO3A1	solute carrier organic anion transporter family member 3A1 [Source:HGNC Symbol;Acc:HGNC:10952]	576	4.13	0.1264	32.7	9.1E-235	1.1E-232
ENSG00000185215	TNFAIP2	TNF alpha induced protein 2 [Source:HGNC Symbol;Acc:HGNC:11895]	1991	1.56	0.0477	32.8	5.7E-236	6.9E-234
ENSG00000177879	AP3S1	adaptor related protein complex 3 subunit sigma 1 [Source:HGNC Symbol;Acc:HGNC:2013]	2595	1.59	0.0485	32.8	5.5E-236	6.6E-234
ENSG00000198682	PAPSS2	3'-phosphoadenosine 5'-phosphosulfate synthase 2 [Source:HGNC Symbol;Acc:HGNC:8604]	2428	1.45	0.0440	32.9	8.5E-237	1.0E-234
ENSG00000079819	EPB41L2	erythrocyte membrane protein band 4.1 like 2 [Source:HGNC Symbol;Acc:HGNC:3379]	738	2.74	0.0834	32.9	1.6E-237	2.0E-235
ENSG00000174564	IL20RB	interleukin 20 receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:6004]	655	5.59	0.1692	33.0	7.0E-239	8.7E-237
ENSG00000173852	DPY19L1	dpy-19 like C-mannosyltransferase 1 [Source:HGNC Symbol;Acc:HGNC:22205]	1108	2.14	0.0648	33.1	3.7E-240	4.6E-238
ENSG00000073712	FERMT2	fermitin family member 2 [Source:HGNC Symbol;Acc:HGNC:15767]	3294	1.26	0.0381	33.2	1.2E-241	1.5E-239

ENSG00000213585	VDAC1	voltage dependent anion channel 1 [Source:HGNC Symbol;Acc:HGNC:12669]	7580	1.00	0.0300	33.3	1.8E-242	2.2E-240
ENSG00000168003	SLC3A2	solute carrier family 3 member 2 [Source:HGNC Symbol;Acc:HGNC:11026]	12593	0.95	0.0284	33.4	6.8E-244	8.7E-242
ENSG00000035403	VCL	vinculin [Source:HGNC Symbol;Acc:HGNC:12665]	6214	1.06	0.0316	33.4	3.9E-245	5.0E-243
ENSG00000115310	RTN4	reticulon 4 [Source:HGNC Symbol;Acc:HGNC:14085]	9067	1.09	0.0326	33.5	1.7E-245	2.3E-243
ENSG00000103415	HMOX2	heme oxygenase 2 [Source:HGNC Symbol;Acc:HGNC:5014]	1559	1.81	0.0541	33.5	5.2E-246	6.9E-244
ENSG00000034510	TMSB10	thymosin beta 10 [Source:HGNC Symbol;Acc:HGNC:11879]	23128	1.11	0.0330	33.5	1.1E-246	1.4E-244
ENSG00000105939	ZC3HAV1	zinc finger CCCH-type containing, antiviral 1 [Source:HGNC Symbol;Acc:HGNC:23721]	2971	1.37	0.0409	33.5	9.7E-247	1.3E-244
ENSG00000075275	CELSR1	cadherin EGF LAG seven-pass G-type receptor 1 [Source:HGNC Symbol;Acc:HGNC:1850]	2559	1.45	0.0431	33.6	8.8E-248	1.2E-245
ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	6531	1.41	0.0416	34.0	4.6E-253	6.3E-251
ENSG00000136478	TEX2	testis expressed 2 [Source:HGNC Symbol;Acc:HGNC:30884]	3130	1.45	0.0423	34.1	1.7E-255	2.4E-253
ENSG00000164078	MST1R	macrophage stimulating 1 receptor [Source:HGNC Symbol;Acc:HGNC:7381]	1342	1.99	0.0583	34.2	2.0E-256	2.8E-254
ENSG00000170271	FAXDC2	fatty acid hydroxylase domain containing 2 [Source:HGNC Symbol;Acc:HGNC:1334]	767	5.92	0.1731	34.2	1.2E-256	1.7E-254
ENSG00000171208	NETO2	neuropilin and tolloid like 2 [Source:HGNC Symbol;Acc:HGNC:14644]	3126	1.34	0.0392	34.3	3.1E-257	4.5E-255
ENSG00000163814	CDCP1	CUB domain containing protein 1 [Source:HGNC Symbol;Acc:HGNC:24357]	5365	1.18	0.0345	34.4	6.5E-259	9.5E-257
ENSG00000138685	FGF2	fibroblast growth factor 2 [Source:HGNC Symbol;Acc:HGNC:3676]	1226	2.18	0.0631	34.5	2.3E-260	3.4E-258
ENSG00000115419	GLS	glutaminase [Source:HGNC Symbol;Acc:HGNC:4331]	6124	1.11	0.0321	34.5	1.5E-261	2.2E-259
ENSG00000143819	EPHX1	epoxide hydrolase 1 [Source:HGNC Symbol;Acc:HGNC:3401]	1706	1.83	0.0528	34.7	7.0E-264	1.0E-261
ENSG00000107201	DDX58	DExD/H-box helicase 58 [Source:HGNC Symbol;Acc:HGNC:19102]	2732	1.56	0.0445	34.9	2.3E-267	3.4E-265
ENSG00000100300	TSPO	translocator protein [Source:HGNC Symbol;Acc:HGNC:1158]	1379	2.08	0.0594	35.0	4.5E-269	7.0E-267
ENSG00000198959	TGM2	transglutaminase 2 [Source:HGNC Symbol;Acc:HGNC:11778]	9008	1.00	0.0284	35.4	6.7E-274	1.1E-271
ENSG00000129657	SEC14L1	SEC14 like lipid binding 1 [Source:HGNC Symbol;Acc:HGNC:10698]	3367	1.36	0.0384	35.5	1.5E-276	2.4E-274
ENSG00000233276	GPX1	glutathione peroxidase 1 [Source:HGNC Symbol;Acc:HGNC:4553]	4225	1.44	0.0398	36.2	8.7E-287	1.5E-284
ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]	702	3.68	0.1017	36.2	1.4E-287	2.4E-285
ENSG00000072110	ACTN1	actinin alpha 1 [Source:HGNC Symbol;Acc:HGNC:163]	11614	1.10	0.0299	37.0	1.6E-299	2.8E-297
ENSG00000117143	UAP1	UDP-N-acetylglucosamine pyrophosphorylase 1 [Source:HGNC Symbol;Acc:HGNC:12457]	2646	1.56	0.0422	37.0	3.4E-300	6.1E-298
ENSG00000076513	ANKRD13A	ankyrin repeat domain 13A [Source:HGNC Symbol;Acc:HGNC:21268]	1310	2.28	0.0611	37.3	4.2E-304	7.6E-302
ENSG00000110880	CORO1C	coronin 1C [Source:HGNC Symbol;Acc:HGNC:2254]	4612	1.30	0.0349	37.3	2.7E-304	5.0E-302
ENSG00000103024	NME3	NME/NM23 nucleoside diphosphate kinase 3 [Source:HGNC Symbol;Acc:HGNC:7851]	717	4.13	0.1104	37.4	1.7E-306	3.2E-304
ENSG00000039560	RAI14	retinoic acid induced 14 [Source:HGNC Symbol;Acc:HGNC:14873]	931	3.01	0.0802	37.6	0	0
ENSG00000111640	GAPDH	glyceraldehyde-3-phosphate dehydrogenase [Source:HGNC Symbol;Acc:HGNC:4141]	79532	0.86	0.0227	37.8	0	0
ENSG00000138347	MYPN	myopalladin [Source:HGNC Symbol;Acc:HGNC:23246]	1468	2.26	0.0598	37.8	0	0
ENSG00000053747	LAMA3	laminin subunit alpha 3 [Source:HGNC Symbol;Acc:HGNC:6483]	6414	1.14	0.0301	38.0	0	0
ENSG00000117394	SLC2A1	solute carrier family 2 member 1 [Source:HGNC Symbol;Acc:HGNC:11005]	4793	1.28	0.0336	38.1	0	0
ENSG00000145623	OSMR	oncostatin M receptor [Source:HGNC Symbol;Acc:HGNC:8507]	2841	1.61	0.0421	38.3	0	0
ENSG00000177469	CAVIN1	caveolae associated protein 1 [Source:HGNC Symbol;Acc:HGNC:9688]	21886	1.02	0.0267	38.3	0	0
ENSG00000103202	NME4	NME/NM23 nucleoside diphosphate kinase 4 [Source:HGNC Symbol;Acc:HGNC:7852]	4038	1.53	0.0396	38.6	0	0
ENSG00000006327	TNFRSF12A	TNF receptor superfamily member 12A [Source:HGNC Symbol;Acc:HGNC:18152]	7955	1.16	0.0299	38.9	0	0
ENSG00000182809	CRIP2	cysteine rich protein 2 [Source:HGNC Symbol;Acc:HGNC:2361]	3015	1.63	0.0415	39.2	0	0
ENSG00000167460	TPM4	tropomyosin 4 [Source:HGNC Symbol;Acc:HGNC:12013]	14818	1.02	0.0260	39.3	0	0
ENSG00000116016	EPAS1	endothelial PAS domain protein 1 [Source:HGNC Symbol;Acc:HGNC:3374]	8280	1.17	0.0294	39.6	0	0
ENSG00000166147	FBN1	fibrillin 1 [Source:HGNC Symbol;Acc:HGNC:3603]	927	3.26	0.0823	39.6	0	0
ENSG00000087086	FTL	ferritin light chain [Source:HGNC Symbol;Acc:HGNC:3999]	13374	1.03	0.0259	39.8	0	0

ENSG00000131668	BARX1	BARX homeobox 1 [Source:HGNC Symbol;Acc:HGNC:955]	959	3.14	0.0785	40.1	0	0
ENSG00000134757	DSG3	desmoglein 3 [Source:HGNC Symbol;Acc:HGNC:3050]	1450	2.41	0.0597	40.3	0	0
ENSG00000050405	LIMA1	LIM domain and actin binding 1 [Source:HGNC Symbol;Acc:HGNC:24636]	8328	1.27	0.0314	40.4	0	0
ENSG00000074800	ENO1	enolase 1 [Source:HGNC Symbol;Acc:HGNC:3350]	66063	0.90	0.0222	40.4	0	0
ENSG00000118985	ELL2	elongation factor for RNA polymerase II 2 [Source:HGNC Symbol;Acc:HGNC:17064]	1834	2.27	0.0561	40.5	0	0
ENSG00000271503	CCL5	C-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10632]	1075	2.98	0.0726	41.1	0	0
ENSG00000183853	KIRREL1	kirre like nephrin family adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:15734]	1678	2.20	0.0533	41.3	0	0
ENSG00000115756	HPCAL1	hippocalcin like 1 [Source:HGNC Symbol;Acc:HGNC:5145]	961	3.68	0.0871	42.2	0	0
ENSG00000024422	EHD2	EH domain containing 2 [Source:HGNC Symbol;Acc:HGNC:3243]	8536	1.23	0.0288	42.6	0	0
ENSG00000100342	APOL1	apolipoprotein L1 [Source:HGNC Symbol;Acc:HGNC:618]	2447	2.09	0.0488	42.8	0	0
ENSG00000086289	EPDR1	ependymin related 1 [Source:HGNC Symbol;Acc:HGNC:17572]	1213	3.08	0.0715	43.1	0	0
ENSG00000100097	LGALS1	galectin 1 [Source:HGNC Symbol;Acc:HGNC:6561]	12614	5.02	0.1142	44.0	0	0
ENSG00000154127	UBASH3B	ubiquitin associated and SH3 domain containing B [Source:HGNC Symbol;Acc:HGNC:29884]	1125	3.46	0.0785	44.0	0	0
ENSG00000131746	TNS4	tensin 4 [Source:HGNC Symbol;Acc:HGNC:24352]	1164	3.35	0.0753	44.5	0	0
ENSG00000145730	PAM	peptidylglycine alpha-amidating monooxygenase [Source:HGNC Symbol;Acc:HGNC:8596]	5640	1.45	0.0323	44.9	0	0
ENSG00000103257	SLC7A5	solute carrier family 7 member 5 [Source:HGNC Symbol;Acc:HGNC:11063]	20816	1.20	0.0266	45.0	0	0
ENSG00000169439	SDC2	syndecan 2 [Source:HGNC Symbol;Acc:HGNC:10659]	1079	4.77	0.1059	45.1	0	0
ENSG00000134954	ETS1	ETS proto-oncogene 1, transcription factor [Source:HGNC Symbol;Acc:HGNC:3488]	1672	2.63	0.0583	45.2	0	0
ENSG00000085662	AKR1B1	aldo-keto reductase family 1 member B [Source:HGNC Symbol;Acc:HGNC:381]	6258	1.49	0.0330	45.2	0	0
ENSG00000118523	CCN2	cellular communication network factor 2 [Source:HGNC Symbol;Acc:HGNC:2500]	1303	3.27	0.0720	45.4	0	0
ENSG00000005884	ITGA3	integrin subunit alpha 3 [Source:HGNC Symbol;Acc:HGNC:6139]	12693	1.26	0.0276	45.7	0	0
ENSG00000116260	QSOX1	quiescin sulphydryl oxidase 1 [Source:HGNC Symbol;Acc:HGNC:9756]	9994	1.44	0.0310	46.5	0	0
ENSG00000013364	MVP	major vault protein [Source:HGNC Symbol;Acc:HGNC:7531]	1225	4.14	0.0871	47.5	0	0
ENSG00000178172	SPINK6	serine peptidase inhibitor Kazal type 6 [Source:HGNC Symbol;Acc:HGNC:29486]	1909	2.95	0.0620	47.6	0	0
ENSG00000141526	SLC16A3	solute carrier family 16 member 3 [Source:HGNC Symbol;Acc:HGNC:10924]	4817	1.87	0.0391	47.9	0	0
ENSG00000173227	SYT12	synaptotagmin 12 [Source:HGNC Symbol;Acc:HGNC:18381]	1401	5.46	0.1133	48.2	0	0
ENSG00000186832	KRT16	keratin 16 [Source:HGNC Symbol;Acc:HGNC:6423]	7418	1.68	0.0349	48.3	0	0
ENSG00000166825	ANPEP	alanyl aminopeptidase, membrane [Source:HGNC Symbol;Acc:HGNC:500]	1634	3.38	0.0680	49.7	0	0
ENSG00000067057	PFKP	phosphofructokinase, platelet [Source:HGNC Symbol;Acc:HGNC:8878]	5916	1.67	0.0335	49.9	0	0
ENSG00000128510	CPA4	carboxypeptidase A4 [Source:HGNC Symbol;Acc:HGNC:15740]	2154	2.56	0.0506	50.5	0	0
ENSG00000196923	PDLIM7	PDZ and LIM domain 7 [Source:HGNC Symbol;Acc:HGNC:22958]	3681	1.93	0.0382	50.6	0	0
ENSG00000067225	PKM	pyruvate kinase M1/2 [Source:HGNC Symbol;Acc:HGNC:9021]	60197	1.17	0.0228	51.2	0	0
ENSG00000119922	IFIT2	interferon induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:HGNC:5409]	5538	2.12	0.0409	51.7	0	0
ENSG00000159335	PTMS	parathyrosin [Source:HGNC Symbol;Acc:HGNC:9629]	4546	1.93	0.0368	52.5	0	0
ENSG00000167601	AXL	AXL receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:905]	2579	2.55	0.0483	52.9	0	0
ENSG00000142227	EMP3	epithelial membrane protein 3 [Source:HGNC Symbol;Acc:HGNC:3335]	1566	4.09	0.0766	53.4	0	0
ENSG00000119917	IFIT3	interferon induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:HGNC:5411]	4875	2.24	0.0412	54.4	0	0
ENSG00000116661	FBXO2	F-box protein 2 [Source:HGNC Symbol;Acc:HGNC:13581]	2834	2.48	0.0455	54.5	0	0
ENSG00000102854	MSLN	mesothelin [Source:HGNC Symbol;Acc:HGNC:7371]	1710	4.85	0.0874	55.5	0	0
ENSG00000198467	TPM2	tropomyosin 2 [Source:HGNC Symbol;Acc:HGNC:12011]	10037	1.73	0.0310	56.0	0	0
ENSG00000147689	FAM83A	family with sequence similarity 83 member A [Source:HGNC Symbol;Acc:HGNC:28210]	1773	4.43	0.0777	57.0	0	0
ENSG00000145555	MYO10	myosin X [Source:HGNC Symbol;Acc:HGNC:7593]	2027	3.93	0.0674	58.3	0	0

ENSG00000134013	LOXL2	lysyl oxidase like 2 [Source:HGNC Symbol;Acc:HGNC:6666]	2070	5.44	0.0929	58.5	0	0
ENSG00000184640	SEPTIN9	septin 9 [Source:HGNC Symbol;Acc:HGNC:7323]	8041	1.87	0.0320	58.6	0	0
ENSG00000100234	TIMP3	TIMP metalloproteinase inhibitor 3 [Source:HGNC Symbol;Acc:HGNC:11822]	2521	3.10	0.0530	58.6	0	0
ENSG00000152952	PLOD2	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 [Source:HGNC Symbol;Acc:HGNC:9082]	5233	2.12	0.0360	58.8	0	0
ENSG00000135114	OASL	2'-5'-oligoadenylate synthetase like [Source:HGNC Symbol;Acc:HGNC:8090]	3404	2.79	0.0469	59.4	0	0
ENSG00000142871	CCN1	cellular communication network factor 1 [Source:HGNC Symbol;Acc:HGNC:2654]	12246	1.64	0.0274	60.0	0	0
ENSG00000041982	TNC	tenascin C [Source:HGNC Symbol;Acc:HGNC:5318]	6100	2.30	0.0346	66.5	0	0
ENSG00000108679	LGALS3BP	galectin 3 binding protein [Source:HGNC Symbol;Acc:HGNC:6564]	9777	1.99	0.0295	67.4	0	0
ENSG00000167754	KLK5	kallikrein related peptidase 5 [Source:HGNC Symbol;Acc:HGNC:6366]	8328	2.48	0.0366	67.9	0	0
ENSG00000143320	CRABP2	cellular retinoic acid binding protein 2 [Source:HGNC Symbol;Acc:HGNC:2339]	16112	2.05	0.0291	70.3	0	0
ENSG00000113140	SPARC	secreted protein acidic and cysteine rich [Source:HGNC Symbol;Acc:HGNC:11219]	4212	3.05	0.0423	72.0	0	0
ENSG00000103187	COTL1	coactosin like F-actin binding protein 1 [Source:HGNC Symbol;Acc:HGNC:18304]	5553	2.87	0.0362	79.4	0	0
ENSG00000147065	MSN	moesin [Source:HGNC Symbol;Acc:HGNC:7373]	7801	3.01	0.0367	82.2	0	0
ENSG00000062038	CDH3	cadherin 3 [Source:HGNC Symbol;Acc:HGNC:1762]	8642	3.03	0.0318	95.5	0	0
ENSG00000026508	CD44	CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:HGNC:1681]	7565	5.53	0.0532	103.9	0	0
ENSG00000120708	TGFB1	transforming growth factor beta induced [Source:HGNC Symbol;Acc:HGNC:11771]	11775	3.76	0.0340	110.4	0	0

Supplementary Table 4: Shown are genes that are significantly differentially expressed between H1650-derived BrM and Tr-BrM cell lines by RNA-sequencing. Differential expression statistics from DESeq2 analysis are included for all significantly differentially expressed genes. See accompanying Supplementary Fig. 2g.

Supplementary Table 5

Sample type	Model	Conc.(pg/ml)	SEM (if applicable)	Sample number (n)
Serum	PC9-Tr-BrM	n.d.		n=4
Serum	H1650-Tr-BrM	n.d.		n=4
Culture supernatant	PC9-Tr-BrM	15.9	1.5	n=3
Culture supernatant	H1650-Tr-BrM	5.8	0.50	n=3
Culture supernatant	Pos control diluted1:50	35.6	1.1	n=3

Sample type	Model	pg/mg protein	SEM (if applicable)	Sample number (n)
Cell lysate	PC9-Tr-BrM	8963.1	653.3	n=3
Cell lysate	H1650-Tr-BrM	2891.9	302.4	n=3

n.d.= not detectable

Supplementary Table 5: Table showing S100A9 protein levels analyzed by ELISA in serum and culture supernatant from PC9- and H1650-Tr-BrM models. To generate a positive control, H1650-Tr-BrM-S100A9i cells were engineered to ectopically express S100A9 cDNA carrying the Ig-kappa chain-leader secretory sequence, and were used after 1:50 dilution. Mean concentration values with SEM are shown. See also the Methods section.

Supplementary Table 6

Case Number	De-identified number	First line treatment	Second line treatment	Third line treatment	Biopsy site
1	#2	Osimertinib			Brain
2	#3	Osimertinib			Soft tissue (abdomen)
3	#4	Osimertinib			Pleural fluid
4	#5	Osimertinib			Pleural fluid
5	#6	Osimertinib	Carboplatin/pemetrexed		Soft tissue (paraspinal)
6	#7	Osimertinib	Carboplatin/pemetrexed/bevecizumab		Lung
7	#8	Definitive chemoRT	Osimertinib		Lung
8	#9	Osimertinib	Carboplatin/etoposide		Lymph Node
9	#10	Osimertinib/ bevecizumab (clinical trial)	Pembrolizumab		Lung
10	#11	Gefitinib (adjuvant)	Osimertinib		Lung
11	#12	Erlotinib	Osimertinib		Lung
12	#13	Erlotinib	Osimertinib		Lymph Node
13	#14	Erlotinib	Osimertinib		Lung
14	#15	Erlotinib	Osimertinib		Lung
15	#16	Erlotinib	Osimertinib		Pleural fluid
16	#17	Carboplatin/pemetrexed/bevecizumab	Osimertinib		Lymph Node
17	#18	Osimertinib			Lung
18	#19	Adjuvant cisplatin/pemetrexed	Erlotinib	Osimertinib	Lung
19	#20	Erlotinib	Osimertinib		Lavage
20	#21	Adjuvant cisplatin/docetaxel/trastuzumab	Osimertinib		Brain
21	#22	Osimertinib			Lung
22	#23	Osimertinib			Lung
23	#24	Osimertinib			Liver

Supplementary Table 6

24	#25		Osimertinib		Lymph Node
25	#26	Osimertinib			Pleural fluid
26	#27	Osimertinib			Lung
27	#28	Osimertinib			Pleural fluid
28	#29	Osimertinib			Lung
29	#30	Osimertinib			Lung

Supplementary Table 6: De-identified list of human lung cancer patients (n = 29) with confirmed EGFR-mutation-positive tumors and osimertinib treatment information. See also Methods section.

Supplementary Table 7

ensembl_gene_id	external_gene_name	description	base Mean	log2 Fold Change	lfcSE	stat	pvalue	padj	sig
ENSG00000163220	S100A9	S100 calcium binding protein A9 [Source:HGNC Symbol;Acc:HGNC:10499]	7754	-4.49	0.057	-79.1	0	0	DN
ENSG00000130600	H19	H19 imprinted maternally expressed transcript [Source:HGNC Symbol;Acc:HGNC:4713]	3640	-3.08	0.055	-56.1	0	0	DN
ENSG00000108244	KRT23	keratin 23 [Source:HGNC Symbol;Acc:HGNC:6438]	1750	-3.35	0.071	-47.2	0	0	DN
ENSG00000185479	KRT6B	keratin 6B [Source:HGNC Symbol;Acc:HGNC:6444]	1615	-3.03	0.070	-43.4	0	0	DN
ENSG00000165092	ALDH1A1	aldehyde dehydrogenase 1 family member A1 [Source:HGNC Symbol;Acc:HGNC:402]	1219	-3.32	0.082	-40.7	0	0	DN
ENSG00000205420	KRT6A	keratin 6A [Source:HGNC Symbol;Acc:HGNC:6443]	889	-2.62	0.091	-28.7	9.16E-181	7.40E-178	DN
ENSG00000170477	KRT4	keratin 4 [Source:HGNC Symbol;Acc:HGNC:6441]	450	-4.46	0.157	-28.4	3.04E-177	2.33E-174	DN
ENSG00000128422	KRT17	keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]	407	-3.61	0.137	-26.3	2.21E-152	1.31E-149	DN
ENSG00000143546	S100A8	S100 calcium binding protein A8 [Source:HGNC Symbol;Acc:HGNC:10498]	331	-4.98	0.207	-24.1	2.53E-128	9.26E-126	DN
ENSG00000186081	KRT5	keratin 5 [Source:HGNC Symbol;Acc:HGNC:6442]	350	-5.75	0.251	-22.9	3.64E-116	1.16E-113	DN
ENSG00000095637	SORBS1	sorbin and SH3 domain containing 1 [Source:HGNC Symbol;Acc:HGNC:14565]	348	-2.71	0.126	-21.5	1.48E-102	3.93E-100	DN
ENSG00000204941	PSG5	pregnancy specific beta-1-glycoprotein 5 [Source:HGNC Symbol;Acc:HGNC:9522]	320	-3.08	0.150	-20.5	9.11E-94	2.22E-91	DN
ENSG00000173432	SAA1	serum amyloid A1 [Source:HGNC Symbol;Acc:HGNC:10513]	214	-3.46	0.179	-19.3	1.31E-82	2.64E-80	DN

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ENSG00000184956	MUC6	mucin 6, oligomeric mucus/gel-forming [Source:HGNC Symbol;Acc:HGNC:7517]	185	-3.90	0.215	-18.1	1.76E-73	3.04E-71	DN
ENSG00000099998	GGT5	gamma-glutamyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:4260]	159	-2.58	0.191	-13.5	1.81E-41	1.07E-39	DN
ENSG00000244122	UGT1A7	UDP glucuronosyltransferase family 1 member A7 [Source:HGNC Symbol;Acc:HGNC:12539]	93	-3.02	0.249	-12.1	5.95E-34	2.56E-32	DN
ENSG00000197142	ACSL5	acyl-CoA synthetase long chain family member 5 [Source:HGNC Symbol;Acc:HGNC:16526]	60	2.67	0.292	9.2	5.35E-20	1.06E-18	UP
ENSG00000073756	PTGS2	prostaglandin-endoperoxide synthase 2 [Source:HGNC Symbol;Acc:HGNC:9605]	75	3.09	0.279	11.1	2.07E-28	6.88E-27	UP
ENSG00000185070	FLRT2	fibronectin leucine rich transmembrane protein 2 [Source:HGNC Symbol;Acc:HGNC:3761]	95	2.93	0.254	11.5	9.23E-31	3.47E-29	UP
ENSG00000142619	PADI3	peptidyl arginine deiminase 3 [Source:HGNC Symbol;Acc:HGNC:18337]	102	2.88	0.238	12.1	1.10E-33	4.69E-32	UP
ENSG00000206195	DUXAP8	double homeobox A pseudogene 8 [Source:HGNC Symbol;Acc:HGNC:32187]	118	2.68	0.219	12.2	2.48E-34	1.09E-32	UP
ENSG00000183128	CALHM3	calcium homeostasis modulator 3 [Source:HGNC Symbol;Acc:HGNC:23458]	106	2.98	0.235	12.7	7.54E-37	3.79E-35	UP
ENSG00000165626	BEND7	BEN domain containing 7 [Source:HGNC Symbol;Acc:HGNC:23514]	104	2.99	0.235	12.7	3.33E-37	1.71E-35	UP
ENSG00000060982	BCAT1	branched chain amino acid transaminase 1 [Source:HGNC Symbol;Acc:HGNC:976]	118	3.47	0.253	13.7	5.16E-43	3.20E-41	UP
ENSG00000136167	LCP1	lymphocyte cytosolic protein 1 [Source:HGNC Symbol;Acc:HGNC:6528]	112	3.72	0.260	14.3	2.01E-46	1.45E-44	UP

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ENSG00000146555	SDK1	sidekick cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:19307]	169	3.33	0.20 2	16.5	3.08E-61	3.67E-59	UP
ENSG00000139714	MORN3	MORN repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:29807]	193	3.35	0.18 7	17.9	2.00E-71	3.30E-69	UP
ENSG00000107954	NEURL1	neuralized E3 ubiquitin protein ligase 1 [Source:HGNC Symbol;Acc:HGNC:7761]	682	2.57	0.10 3	24.9	2.11E-136	9.81E-134	UP
ENSG00000130303	BST2	bone marrow stromal cell antigen 2 [Source:HGNC Symbol;Acc:HGNC:1119]	424	3.80	0.14 3	26.6	1.44E-155	8.86E-153	UP
ENSG00000115468	EFHD1	EF-hand domain family member D1 [Source:HGNC Symbol;Acc:HGNC:29556]	985	2.54	0.08 3	30.5	6.35E-204	6.97E-201	UP

Supplementary Table 7: Shown are genes that are significantly differentially expressed between PC9-Tr-BrM-S100A9i and PC9-Tr-BrM-Lenti-Con identified by RNA-sequencing. Differential expression statistics from DESeq2 analysis are included for all significantly differentially expressed genes. See also accompanying Fig. 5 and Supplementary Fig. 4.

Supplementary Table 8

ensembl_gene_id	external_gene	description	baseMean	log2Fold	lfcSE	stat	pvalue	padj
ENSG00000147889	CDKN2A	cyclin dependent kinase inhibitor 2A [Source:HGNC Symbol;Acc:HGNC:1787]	38	-2.4	0.35	-6.75	1.48E-11	4.07E-10
ENSG00000135439	AGAP2	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:HGNC:16921]	82	-2.3	0.26	-9.01	2.02E-19	1.13E-17
ENSG00000152049	KCNE4	potassium voltage-gated channel subfamily E regulatory subunit 4 [Source:HGNC Symbol;Acc:HGNC:6244]	30	-2.2	0.38	-5.73	9.79E-09	1.82E-07
ENSG00000135094	SDS	serine dehydratase [Source:HGNC Symbol;Acc:HGNC:10691]	33	-2.0	0.38	-5.22	1.82E-07	2.73E-06
ENSG00000163993	S100P	S100 calcium binding protein P [Source:HGNC Symbol;Acc:HGNC:10504]	60	-2.0	0.28	-7.02	2.25E-12	6.62E-11
ENSG00000038945	MSR1	macrophage scavenger receptor 1 [Source:HGNC Symbol;Acc:HGNC:7376]	56	-1.9	0.29	-6.53	6.60E-11	1.65E-09
ENSG00000173110	HSPA6	heat shock protein family A (Hsp70) member 6 [Source:HGNC Symbol;Acc:HGNC:5239]	235	-1.9	0.14	-13.47	2.47E-41	4.92E-39
ENSG00000162493	PDPN	podoplanin [Source:HGNC Symbol;Acc:HGNC:29602]	69	-1.9	0.27	-7.05	1.82E-12	5.41E-11
ENSG00000203747	FCGR3A	Fc fragment of IgG receptor IIIa [Source:HGNC Symbol;Acc:HGNC:3619]	68	-1.9	0.25	-7.30	2.91E-13	9.60E-12
ENSG00000110195	FOLR1	folate receptor alpha [Source:HGNC Symbol;Acc:HGNC:3791]	81	-1.7	0.22	-7.93	2.12E-15	8.48E-14
ENSG00000124212	PTGIS	prostaglandin I2 synthase [Source:HGNC Symbol;Acc:HGNC:9603]	48	-1.7	0.29	-5.86	4.51E-09	8.81E-08
ENSG00000141579	ZNF750	zinc finger protein 750 [Source:HGNC Symbol;Acc:HGNC:25843]	90	-1.7	0.21	-8.10	5.39E-16	2.28E-14
ENSG00000163220	S100A9	S100 calcium binding protein A9 [Source:HGNC Symbol;Acc:HGNC:10499]	4782	-1.7	0.10	-16.92	3.45E-64	1.98E-61
ENSG00000073067	CYP2W1	cytochrome P450 family 2 subfamily W member 1 [Source:HGNC Symbol;Acc:HGNC:20243]	148	-1.6	0.16	-9.96	2.20E-23	1.68E-21
ENSG00000137648	TMPRSS4	transmembrane serine protease 4 [Source:HGNC Symbol;Acc:HGNC:11878]	240	-1.6	0.13	-12.56	3.48E-36	5.25E-34
ENSG00000161911	TREML1	triggering receptor expressed on myeloid cells like 1 [Source:HGNC Symbol;Acc:HGNC:20434]	25	-1.6	0.40	-4.04	5.30E-05	4.88E-04
ENSG00000121933	TMIGD3	transmembrane and immunoglobulin domain containing 3 [Source:HGNC Symbol;Acc:HGNC:51375]	25	-1.6	0.40	-3.98	6.94E-05	6.20E-04
ENSG00000130595	TNNT3	troponin T3, fast skeletal type [Source:HGNC Symbol;Acc:HGNC:11950]	47	-1.6	0.29	-5.37	7.93E-08	1.27E-06
ENSG00000186204	CYP4F12	cytochrome P450 family 4 subfamily F member 12 [Source:HGNC Symbol;Acc:HGNC:18857]	169	-1.5	0.16	-9.33	1.08E-20	6.67E-19
ENSG00000211891	IGHE	immunoglobulin heavy constant epsilon [Source:HGNC Symbol;Acc:HGNC:5522]	35	-1.5	0.34	-4.40	1.06E-05	1.14E-04
ENSG00000279141	LINC01451	long intergenic non-protein coding RNA 1451 [Source:NCBI gene (formerly Entrezgene);Acc:401561]	39	-1.5	0.31	-4.80	1.57E-06	2.00E-05
ENSG00000102886	GDPD3	glycerophosphodiester phosphodiesterase domain containing 3 [Source:HGNC Symbol;Acc:HGNC:28638]	51	-1.5	0.27	-5.52	3.43E-08	5.78E-07
ENSG00000150625	GPM6A	glycoprotein M6A [Source:HGNC Symbol;Acc:HGNC:4460]	62	-1.5	0.27	-5.58	2.38E-08	4.15E-07
ENSG00000176887	SOX11	SRY-box transcription factor 11 [Source:HGNC Symbol;Acc:HGNC:11191]	48	-1.4	0.31	-4.58	4.69E-06	5.43E-05
ENSG00000225783	MIAT	myocardial infarction associated transcript [Source:HGNC Symbol;Acc:HGNC:33425]	37	-1.4	0.32	-4.39	1.16E-05	1.23E-04
ENSG00000129538	RNASE1	ribonuclease A family member 1, pancreatic [Source:HGNC Symbol;Acc:HGNC:10044]	246	-1.4	0.24	-5.59	2.26E-08	3.96E-07
ENSG00000143546	S100A8	S100 calcium binding protein A8 [Source:HGNC Symbol;Acc:HGNC:10498]	1854	-1.4	0.06	-21.85	8.65E-106	1.55E-102
ENSG00000170482	SLC23A1	solute carrier family 23 member 1 [Source:HGNC Symbol;Acc:HGNC:10974]	27	-1.4	0.37	-3.65	2.66E-04	0.0020176
ENSG00000115461	IGFBP5	insulin like growth factor binding protein 5 [Source:HGNC Symbol;Acc:HGNC:5474]	480	-1.3	0.26	-5.18	2.26E-07	3.35E-06
ENSG00000205847	OR7E91P	olfactory receptor family 7 subfamily E member 91 pseudogene [Source:HGNC Symbol;Acc:HGNC:14747]	31	-1.3	0.35	-3.73	1.90E-04	0.0014983
ENSG00000186710	CFAP73	cilia and flagella associated protein 73 [Source:HGNC Symbol;Acc:HGNC:37100]	27	-1.3	0.39	-3.32	8.94E-04	0.0057705
ENSG00000149294	NCAM1	neural cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:7656]	63	-1.3	0.26	-4.92	8.52E-07	1.14E-05
ENSG00000166927	MS4A7	membrane spanning 4-domains A7 [Source:HGNC Symbol;Acc:HGNC:13378]	31	-1.3	0.35	-3.63	2.80E-04	0.002103
ENSG00000088340	FER1L4	fer-1 like family member 4 (pseudogene) [Source:HGNC Symbol;Acc:HGNC:15801]	205	-1.3	0.13	-9.50	2.01E-21	1.31E-19
ENSG00000105519	CAPS	calcyphosine [Source:HGNC Symbol;Acc:HGNC:1487]	183	-1.3	0.14	-8.82	1.18E-18	6.28E-17
ENSG00000225886	ENSG00000225886	novel transcript, antisense to IFI6	48	-1.3	0.28	-4.56	5.14E-06	5.92E-05
ENSG00000198515	CNGA1	cyclic nucleotide gated channel subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:2148]	66	-1.3	0.24	-5.33	9.87E-08	1.56E-06
ENSG00000111319	SCNN1A	sodium channel epithelial 1 subunit alpha [Source:HGNC Symbol;Acc:HGNC:10599]	53	-1.3	0.28	-4.49	6.98E-06	7.87E-05
ENSG00000155269	GPR78	G protein-coupled receptor 78 [Source:HGNC Symbol;Acc:HGNC:4528]	38	-1.3	0.31	-4.02	5.88E-05	5.36E-04
ENSG00000164047	CAMP	cathelicidin antimicrobial peptide [Source:HGNC Symbol;Acc:HGNC:1472]	30	-1.2	0.35	-3.58	3.48E-04	0.0025424
ENSG00000160801	PTH1R	parathyroid hormone 1 receptor [Source:HGNC Symbol;Acc:HGNC:9608]	36	-1.2	0.32	-3.86	1.13E-04	9.54E-04

ENSG00000130208	APOC1	apolipoprotein C1 [Source:HGNC Symbol;Acc:HGNC:607]	40	-1.2	0.32	-3.73	1.88E-04	0.0014859
ENSG00000178445	GLDC	glycine decarboxylase [Source:HGNC Symbol;Acc:HGNC:4313]	491	-1.2	0.09	-12.97	1.82E-38	3.15E-36
ENSG00000171446	KRT27	keratin 27 [Source:HGNC Symbol;Acc:HGNC:30841]	37	-1.2	0.31	-3.80	1.45E-04	0.001183
ENSG00000181449	SOX2	SRY-box transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:11195]	226	-1.2	0.13	-9.18	4.32E-20	2.57E-18
ENSG00000233901	LINC01503	long intergenic non-protein coding RNA 1503 [Source:HGNC Symbol;Acc:HGNC:51184]	26	-1.2	0.37	-3.15	0.0016492	0.0097124
ENSG0000014257	ACP3	acid phosphatase 3 [Source:HGNC Symbol;Acc:HGNC:125]	94	-1.2	0.21	-5.50	3.74E-08	6.27E-07
ENSG00000171401	KRT13	keratin 13 [Source:HGNC Symbol;Acc:HGNC:6415]	148	-1.1	0.16	-7.20	5.87E-13	1.84E-11
ENSG00000158869	FCER1G	Fc fragment of IgE receptor Ig [Source:HGNC Symbol;Acc:HGNC:3611]	87	-1.1	0.21	-5.29	1.22E-07	1.90E-06
ENSG00000118785	SPP1	secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:HGNC:11255]	974	-1.1	0.21	-5.29	1.25E-07	1.94E-06
ENSG00000137968	SLC44A5	solute carrier family 44 member 5 [Source:HGNC Symbol;Acc:HGNC:28524]	90	-1.1	0.21	-5.24	1.65E-07	2.50E-06
ENSG00000137959	IFI44L	interferon induced protein 44 like [Source:HGNC Symbol;Acc:HGNC:17817]	590	-1.1	0.09	-12.73	4.00E-37	6.38E-35
ENSG00000103569	AQP9	aquaporin 9 [Source:HGNC Symbol;Acc:HGNC:643]	25	-1.1	0.38	-2.89	0.0038495	0.0196737
ENSG00000140795	MYLK3	myosin light chain kinase 3 [Source:HGNC Symbol;Acc:HGNC:29826]	69	-1.1	0.23	-4.89	9.85E-07	1.30E-05
ENSG00000164434	FABP7	fatty acid binding protein 7 [Source:HGNC Symbol;Acc:HGNC:3562]	33	-1.1	0.35	-3.11	0.0018718	0.0108178
ENSG00000171388	APLN	apelin [Source:HGNC Symbol;Acc:HGNC:16665]	25	-1.1	0.39	-2.82	0.0048775	0.0239332
ENSG00000067048	DDX3Y	DEAD-box helicase 3 Y-linked [Source:HGNC Symbol;Acc:HGNC:2699]	25	-1.1	0.39	-2.76	0.0058627	0.0277753
ENSG00000115596	WNT6	Wnt family member 6 [Source:HGNC Symbol;Acc:HGNC:12785]	1131	-1.1	0.08	-13.26	4.21E-40	7.90E-38
ENSG00000205890	ENSG00000205890	novel transcript, antisense to CCDC64B	36	-1.1	0.31	-3.43	6.09E-04	0.0041583
ENSG00000160307	S100B	S100 calcium binding protein B [Source:HGNC Symbol;Acc:HGNC:10500]	101	-1.1	0.21	-4.97	6.70E-07	9.10E-06
ENSG00000167741	GGT6	gamma-glutamyltransferase 6 [Source:HGNC Symbol;Acc:HGNC:26891]	332	-1.1	0.11	-9.89	4.69E-23	3.44E-21
ENSG00000163141	BNIP1	BCL2 interacting protein like [Source:HGNC Symbol;Acc:HGNC:16976]	175	-1.1	0.15	-7.21	5.50E-13	1.74E-11
ENSG00000167183	PRR15L	proline rich 15 like [Source:HGNC Symbol;Acc:HGNC:28149]	99	-1.0	0.19	-5.55	2.87E-08	4.92E-07
ENSG00000105289	TJP3	tight junction protein 3 [Source:HGNC Symbol;Acc:HGNC:11829]	251	-1.0	0.13	-8.31	9.54E-17	4.35E-15
ENSG00000005108	THSD7A	thrombospondin type 1 domain containing 7A [Source:HGNC Symbol;Acc:HGNC:22207]	139	-1.0	0.16	-6.33	2.43E-10	5.65E-09
ENSG00000182179	UBA7	ubiquitin like modifier activating enzyme 7 [Source:HGNC Symbol;Acc:HGNC:12471]	192	-1.0	0.14	-7.45	9.67E-14	3.29E-12
ENSG00000176920	FUT2	fucosyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:4013]	28	-1.0	0.35	-2.90	0.0037646	0.0193072
ENSG00000156127	BATF	basic leucine zipper ATF-like transcription factor [Source:HGNC Symbol;Acc:HGNC:958]	53	-1.0	0.26	-3.80	1.45E-04	0.0011827
ENSG00000107731	UNC5B	unc-5 netrin receptor B [Source:HGNC Symbol;Acc:HGNC:12568]	196	-1.0	0.15	-6.54	6.33E-11	1.59E-09
ENSG00000131095	GFAP	glial fibrillary acidic protein [Source:HGNC Symbol;Acc:HGNC:4235]	1126	-1.0	0.25	-4.03	5.51E-05	5.05E-04
ENSG00000103056	SMPD3	sphingomyelin phosphodiesterase 3 [Source:HGNC Symbol;Acc:HGNC:14240]	182	-1.0	0.14	-6.84	7.82E-12	2.22E-10
ENSG00000001617	SEMA3F	semaphorin 3F [Source:HGNC Symbol;Acc:HGNC:10728]	594	-1.0	0.08	-11.95	6.78E-33	8.89E-31
ENSG00000204021	LIPK	lipase family member K [Source:HGNC Symbol;Acc:HGNC:23444]	218	-1.0	0.13	-7.58	3.58E-14	1.26E-12
ENSG00000230091	TMEM254-AS1	TMEM254 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:27340]	148	-1.0	0.16	-6.25	4.20E-10	9.48E-09
ENSG00000129991	TNNI3	troponin I3, cardiac type [Source:HGNC Symbol;Acc:HGNC:11947]	34	-1.0	0.33	-3.02	0.0025067	0.0138709
ENSG00000136002	ARHGEF4	Rho guanine nucleotide exchange factor 4 [Source:HGNC Symbol;Acc:HGNC:684]	170	-1.0	0.14	-6.79	1.09E-11	3.02E-10
ENSG00000106278	PTPRZ1	protein tyrosine phosphatase receptor type Z1 [Source:HGNC Symbol;Acc:HGNC:9685]	181	-1.0	0.33	-2.95	0.0031848	0.0169147
ENSG00000171051	FPR1	formyl peptide receptor 1 [Source:HGNC Symbol;Acc:HGNC:3826]	30	-1.0	0.36	-2.64	0.0082884	0.0369369
ENSG00000110079	MS4A4A	membrane spanning 4-domains A4A [Source:HGNC Symbol;Acc:HGNC:13371]	28	-1.0	0.37	-2.62	0.0087899	0.0389138
ENSG00000171476	HOPX	HOP homeobox [Source:HGNC Symbol;Acc:HGNC:24961]	67	-1.0	0.23	-4.17	3.00E-05	2.93E-04
ENSG00000245526	LINC00461	long intergenic non-protein coding RNA 461 [Source:HGNC Symbol;Acc:HGNC:42810]	37	-1.0	0.32	-3.02	0.0025399	0.0140113
ENSG00000179314	WSCD1	WSC domain containing 1 [Source:HGNC Symbol;Acc:HGNC:29060]	35	-1.0	0.32	-2.94	0.0033015	0.0173966
ENSG00000168961	LGALS9	galectin 9 [Source:HGNC Symbol;Acc:HGNC:6570]	68	-0.9	0.24	-4.03	5.52E-05	5.06E-04

ENSG00000253552	HOXA-AS2	HOXA cluster antisense RNA 2 [Source:HGNC Symbol;Acc:HGNC:43745]	27	-0.9	0.36	-2.65	0.00798	0.0358298
ENSG00000166863	TAC3	tachykinin precursor 3 [Source:HGNC Symbol;Acc:HGNC:11521]	33	-0.9	0.33	-2.90	0.0036808	0.0189736
ENSG00000167525	PROCA1	protein interacting with cyclin A1 [Source:HGNC Symbol;Acc:HGNC:28600]	54	-0.9	0.25	-3.73	1.92E-04	0.0015113
ENSG00000165140	FBP1	fructose-bisphosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3606]	27	-0.9	0.36	-2.61	0.0091584	0.0401263
ENSG00000143119	CD53	CD53 molecule [Source:HGNC Symbol;Acc:HGNC:1686]	102	-0.9	0.19	-4.89	1.02E-06	1.35E-05
ENSG00000169403	PTAFR	platelet activating factor receptor [Source:HGNC Symbol;Acc:HGNC:9582]	93	-0.9	0.21	-4.46	8.17E-06	9.07E-05
ENSG00000137752	CASP1	caspase 1 [Source:HGNC Symbol;Acc:HGNC:1499]	80	-0.9	0.21	-4.34	1.43E-05	1.50E-04
ENSG00000000971	CFH	complement factor H [Source:HGNC Symbol;Acc:HGNC:4883]	141	-0.9	0.16	-5.86	4.53E-09	8.83E-08
ENSG00000121742	GJB6	gap junction protein beta 6 [Source:HGNC Symbol;Acc:HGNC:4288]	236	-0.9	0.13	-7.09	1.34E-12	4.01E-11
ENSG00000133110	POSTN	periostin [Source:HGNC Symbol;Acc:HGNC:16953]	164	-0.9	0.15	-5.99	2.04E-09	4.20E-08
ENSG00000175147	TMEM51-AS1	TMEM51 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:26301]	29	-0.9	0.34	-2.70	0.0069305	0.0318362
ENSG00000132274	TRIM22	tripartite motif containing 22 [Source:HGNC Symbol;Acc:HGNC:16379]	505	-0.9	0.09	-10.27	9.47E-25	7.67E-23
ENSG00000235295	LINC01634	long intergenic non-protein coding RNA 1634 [Source:HGNC Symbol;Acc:HGNC:52421]	33	-0.9	0.33	-2.79	0.0052844	0.0255178
ENSG00000149131	SERPING1	serpin family G member 1 [Source:HGNC Symbol;Acc:HGNC:1228]	126	-0.9	0.18	-5.14	2.68E-07	3.90E-06
ENSG00000108465	CDK5RAP3	CDK5 regulatory subunit associated protein 3 [Source:HGNC Symbol;Acc:HGNC:18673]	101	-0.9	0.20	-4.46	8.34E-06	9.23E-05
ENSG00000099994	SUSD2	sushi domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30667]	56	-0.9	0.25	-3.57	3.51E-04	0.0025638
ENSG00000070915	SLC12A3	solute carrier family 12 member 3 [Source:HGNC Symbol;Acc:HGNC:10912]	34	-0.9	0.32	-2.82	0.0048495	0.0238173
ENSG00000224984	ENSG00000224984	novel transcript	59	-0.9	0.25	-3.63	2.82E-04	0.0021153
ENSG00000170899	GSTA4	glutathione S-transferase alpha 4 [Source:HGNC Symbol;Acc:HGNC:4629]	31	-0.9	0.34	-2.62	0.0087722	0.0388494
ENSG00000068078	FGFR3	fibroblast growth factor receptor 3 [Source:HGNC Symbol;Acc:HGNC:3690]	456	-0.9	0.09	-9.76	1.69E-22	1.20E-20
ENSG00000082074	FYB1	FYN binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4036]	46	-0.9	0.30	-2.96	0.0031189	0.0166029
ENSG00000069812	HES2	hes family bHLH transcription factor 2 [Source:HGNC Symbol;Acc:HGNC:16005]	760	-0.9	0.07	-11.88	1.49E-32	1.90E-30
ENSG00000170006	TMEM154	transmembrane protein 154 [Source:HGNC Symbol;Acc:HGNC:26489]	309	-0.9	0.11	-7.57	3.73E-14	1.31E-12
ENSG00000108830	RND2	Rho family GTPase 2 [Source:HGNC Symbol;Acc:HGNC:18315]	60	-0.9	0.25	-3.52	4.33E-04	0.0030834
ENSG00000139737	SLAIN1	SLAIN motif family member 1 [Source:HGNC Symbol;Acc:HGNC:26387]	44	-0.9	0.29	-2.96	0.0030784	0.0164305
ENSG00000005961	ITGA2B	integrin subunit alpha 2b [Source:HGNC Symbol;Acc:HGNC:6138]	37	-0.9	0.31	-2.78	0.0053548	0.0257656
ENSG00000163218	PGLYRP4	peptidoglycan recognition protein 4 [Source:HGNC Symbol;Acc:HGNC:30015]	89	-0.9	0.21	-4.18	2.96E-05	2.90E-04
ENSG00000128284	APOL3	apolipoprotein L3 [Source:HGNC Symbol;Acc:HGNC:14868]	50	-0.9	0.27	-3.16	0.0015607	0.0092624
ENSG00000178075	GRAMD1C	GRAM domain containing 1C [Source:HGNC Symbol;Acc:HGNC:25252]	68	-0.8	0.23	-3.66	2.51E-04	0.00192
ENSG00000169550	MUC15	mucin 15, cell surface associated [Source:HGNC Symbol;Acc:HGNC:14956]	1057	-0.8	0.06	-13.64	2.30E-42	5.14E-40
ENSG00000215788	TNFRSF25	TNF receptor superfamily member 25 [Source:HGNC Symbol;Acc:HGNC:11910]	178	-0.8	0.14	-6.03	1.67E-09	3.46E-08
ENSG00000176046	NUPR1	nuclear protein 1, transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:29990]	175	-0.8	0.17	-4.98	6.45E-07	8.78E-06
ENSG00000128268	MGAT3	beta-1,4-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase [Source:HGNC Symbol;Acc:HGNC:968]	968	-0.8	0.07	-12.48	1.00E-35	1.46E-33
ENSG00000133710	SPINK5	serine peptidase inhibitor Kazal type 5 [Source:HGNC Symbol;Acc:HGNC:15464]	42	-0.8	0.29	-2.85	0.0043673	0.0218975
ENSG00000258314	ENSG00000258314	novel transcript	36	-0.8	0.31	-2.65	0.0081683	0.0365126
ENSG00000197632	SERPINB2	serpin family B member 2 [Source:HGNC Symbol;Acc:HGNC:8584]	47	-0.8	0.28	-2.97	0.0029789	0.0160002
ENSG00000189120	SP6	Sp6 transcription factor [Source:HGNC Symbol;Acc:HGNC:14530]	1082	-0.8	0.06	-12.78	2.17E-37	3.68E-35
ENSG00000132394	EEFSEC	eukaryotic elongation factor, selenocysteine-tRNA specific [Source:HGNC Symbol;Acc:HGNC:24614]	51	-0.8	0.26	-3.17	0.0015332	0.0091226
ENSG00000260430	ENSG00000260430	novel transcript	38	-0.8	0.31	-2.64	0.0083254	0.037071
ENSG00000259953	ENSG00000259953	novel transcript, overlapping SUSD1	73	-0.8	0.23	-3.62	2.91E-04	0.0021732
ENSG00000185432	METTL7A	methyltransferase like 7A [Source:HGNC Symbol;Acc:HGNC:24550]	701	-0.8	0.08	-10.78	4.06E-27	3.99E-25
ENSG00000254536	ENSG00000254536	novel protein	40	-0.8	0.30	-2.73	0.0063761	0.0297816

ENSG00000162069	BICDL2	BICD family like cargo adaptor 2 [Source:HGNC Symbol;Acc:HGNC:33584]	225	-0.8	0.13	-6.14	8.36E-10	1.81E-08
ENSG00000260912	ENSG00000260912	novel transcript, overlapping ACER2	58	-0.8	0.24	-3.37	7.49E-04	0.0049586
ENSG00000150471	ADGRL3	adhesion G protein-coupled receptor L3 [Source:HGNC Symbol;Acc:HGNC:20974]	48	-0.8	0.29	-2.83	0.0047065	0.0232657
ENSG00000110076	NRXN2	neurexin 2 [Source:HGNC Symbol;Acc:HGNC:8009]	209	-0.8	0.14	-5.94	2.87E-09	5.76E-08
ENSG00000124466	LYPD3	LY6/PLAUR domain containing 3 [Source:HGNC Symbol;Acc:HGNC:24880]	6313	-0.8	0.04	-18.53	1.15E-76	8.79E-74
ENSG00000255571	MIR9-3HG	MIR9-3 host gene [Source:HGNC Symbol;Acc:HGNC:27388]	121	-0.8	0.17	-4.61	3.97E-06	4.68E-05
ENSG00000155761	SPAG17	sperm associated antigen 17 [Source:HGNC Symbol;Acc:HGNC:26620]	59	-0.8	0.24	-3.35	8.12E-04	0.005319
ENSG00000111052	LIN7A	lin-7 homolog A, crumbs cell polarity complex component [Source:HGNC Symbol;Acc:HGNC:17787]	101	-0.8	0.19	-4.18	2.98E-05	2.91E-04
ENSG00000134222	PSRC1	proline and serine rich coiled-coil 1 [Source:HGNC Symbol;Acc:HGNC:24472]	671	-0.8	0.08	-10.31	6.08E-25	5.03E-23
ENSG00000130270	ATP8B3	ATPase phospholipid transporting 8B3 [Source:HGNC Symbol;Acc:HGNC:13535]	58	-0.8	0.25	-3.18	0.0014559	0.0087209
ENSG00000159388	BTG2	BTG anti-proliferation factor 2 [Source:HGNC Symbol;Acc:HGNC:1131]	290	-0.8	0.11	-7.13	1.03E-12	3.13E-11
ENSG00000106624	AEBP1	AE binding protein 1 [Source:HGNC Symbol;Acc:HGNC:303]	227	-0.8	0.14	-5.75	9.19E-09	1.73E-07
ENSG00000074966	TXK	TXK tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:12434]	78	-0.8	0.22	-3.52	4.34E-04	0.0030885
ENSG00000126821	SGPP1	sphingosine-1-phosphate phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:17720]	47	-0.8	0.27	-2.94	0.0033195	0.017452
ENSG00000280734	LINC01232	long intergenic non-protein coding RNA 1232 [Source:HGNC Symbol;Acc:HGNC:49755]	114	-0.8	0.18	-4.35	1.38E-05	1.44E-04
ENSG00000205363	INSYN1	inhibitory synaptic factor 1 [Source:HGNC Symbol;Acc:HGNC:33753]	60	-0.8	0.24	-3.24	0.0011752	0.0072969
ENSG00000144407	PTH2R	parathyroid hormone 2 receptor [Source:HGNC Symbol;Acc:HGNC:9609]	65	-0.8	0.23	-3.38	7.34E-04	0.0048703
ENSG00000275223	ENSG00000275223	novel transcript	89	-0.8	0.20	-3.89	9.84E-05	8.46E-04
ENSG00000103044	HAS3	hyaluronan synthase 3 [Source:HGNC Symbol;Acc:HGNC:4820]	354	-0.8	0.10	-7.37	1.69E-13	5.65E-12
ENSG00000169169	CPT1C	carnitine palmitoyltransferase 1C [Source:HGNC Symbol;Acc:HGNC:18540]	214	-0.8	0.13	-5.88	4.11E-09	8.05E-08
ENSG00000114737	CISH	cytokine inducible SH2 containing protein [Source:HGNC Symbol;Acc:HGNC:1984]	59	-0.8	0.24	-3.20	0.0013938	0.0083985
ENSG00000163517	HDAC11	histone deacetylase 11 [Source:HGNC Symbol;Acc:HGNC:19086]	539	-0.8	0.08	-9.07	1.18E-19	6.79E-18
ENSG00000105559	PLEKHA4	pleckstrin homology domain containing A4 [Source:HGNC Symbol;Acc:HGNC:14339]	91	-0.8	0.21	-3.66	2.48E-04	0.0018996
ENSG00000183486	MX2	MX dynamin like GTPase 2 [Source:HGNC Symbol;Acc:HGNC:7533]	74	-0.8	0.26	-2.90	0.0037342	0.0191691
ENSG00000089127	OAS1	2'-5'-oligoadenylate synthetase 1 [Source:HGNC Symbol;Acc:HGNC:8086]	2198	-0.8	0.05	-15.46	6.72E-54	2.58E-51
ENSG00000143382	ADAMTSL4	ADAMTS like 4 [Source:HGNC Symbol;Acc:HGNC:19706]	1284	-0.8	0.06	-12.23	2.10E-34	2.89E-32
ENSG00000110042	DTX4	deltex E3 ubiquitin ligase 4 [Source:HGNC Symbol;Acc:HGNC:29151]	2284	-0.8	0.05	-16.35	4.62E-60	2.13E-57
ENSG00000171680	PLEKHG5	pleckstrin homology and RhoGEF domain containing G5 [Source:HGNC Symbol;Acc:HGNC:29105]	497	-0.8	0.10	-7.82	5.17E-15	1.97E-13
ENSG00000185924	RTN4RL1	reticulon 4 receptor like 1 [Source:HGNC Symbol;Acc:HGNC:21329]	67	-0.8	0.24	-3.20	0.0013612	0.0082395
ENSG00000182103	FAM181B	family with sequence similarity 181 member B [Source:HGNC Symbol;Acc:HGNC:28512]	202	-0.8	0.15	-5.16	2.42E-07	3.56E-06
ENSG00000116990	MYCL	MYCL proto-oncogene, bHLH transcription factor [Source:HGNC Symbol;Acc:HGNC:7555]	1013	-0.8	0.07	-10.60	2.95E-26	2.73E-24
ENSG00000119711	ALDH6A1	aldehyde dehydrogenase 6 family member A1 [Source:HGNC Symbol;Acc:HGNC:7179]	64	-0.8	0.26	-2.90	0.0036801	0.0189736
ENSG00000070731	ST6GALNAC2	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:10867]	221	-0.8	0.13	-5.77	7.87E-09	1.49E-07
ENSG00000106804	C5	complement C5 [Source:HGNC Symbol;Acc:HGNC:1331]	68	-0.8	0.23	-3.23	0.0012452	0.0076436
ENSG00000166387	PPFIBP2	PPFIA binding protein 2 [Source:HGNC Symbol;Acc:HGNC:9250]	266	-0.8	0.13	-5.98	2.29E-09	4.68E-08
ENSG00000154227	CERS3	ceramide synthase 3 [Source:HGNC Symbol;Acc:HGNC:23752]	140	-0.8	0.16	-4.61	4.06E-06	4.77E-05
ENSG00000174808	BTC	betacellulin [Source:HGNC Symbol;Acc:HGNC:1121]	572	-0.8	0.09	-8.67	4.18E-18	2.10E-16
ENSG00000111335	OAS2	2'-5'-oligoadenylate synthetase 2 [Source:HGNC Symbol;Acc:HGNC:8087]	1719	-0.7	0.06	-13.43	4.04E-41	7.85E-39
ENSG00000088280	ASAP3	ArfGAP with SH3 domain, ankyrin repeat and PH domain 3 [Source:HGNC Symbol;Acc:HGNC:14987]	389	-0.7	0.10	-7.42	1.14E-13	3.84E-12
ENSG00000285108	ENSG00000285108	novel transcript	108	-0.7	0.19	-3.99	6.62E-05	5.94E-04
ENSG00000274602	PI4KAP1	phosphatidylinositol 4-kinase alpha pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:33576]	773	-0.7	0.07	-10.03	1.16E-23	8.97E-22
ENSG00000166839	ANKDD1A	ankyrin repeat and death domain containing 1A [Source:HGNC Symbol;Acc:HGNC:28002]	136	-0.7	0.16	-4.66	3.15E-06	3.81E-05

ENSG00000165125	TRPV6	transient receptor potential cation channel subfamily V member 6 [Source:HGNC Symbol;Acc:HGNC:14006]	459	-0.7	0.09	-8.26	1.50E-16	6.70E-15
ENSG00000173369	C1QB	complement C1q B chain [Source:HGNC Symbol;Acc:HGNC:1242]	122	-0.7	0.20	-3.70	2.18E-04	0.0016914
ENSG00000266970	SOCS3-DT	SOCS3 divergent transcript [Source:HGNC Symbol;Acc:HGNC:52799]	53	-0.7	0.26	-2.86	0.0042993	0.021636
ENSG00000100918	REC8	REC8 meiotic recombination protein [Source:HGNC Symbol;Acc:HGNC:16879]	57	-0.7	0.25	-2.97	0.0029734	0.0159856
ENSG00000168907	PLA2G4F	phospholipase A2 group IVF [Source:HGNC Symbol;Acc:HGNC:27396]	207	-0.7	0.13	-5.53	3.20E-08	5.43E-07
ENSG00000079385	CEACAM1	CEA cell adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:1814]	371	-0.7	0.11	-6.87	6.44E-12	1.84E-10
ENSG00000237289	CKMT1B	creatine kinase, mitochondrial 1B [Source:HGNC Symbol;Acc:HGNC:1995]	442	-0.7	0.10	-7.22	5.23E-13	1.66E-11
ENSG00000100033	PRODH	proline dehydrogenase 1 [Source:HGNC Symbol;Acc:HGNC:9453]	50	-0.7	0.28	-2.63	0.008531	0.0379131
ENSG00000184611	KCNH7	potassium voltage-gated channel subfamily H member 7 [Source:HGNC Symbol;Acc:HGNC:18863]	54	-0.7	0.26	-2.82	0.0047886	0.0235831
ENSG00000007944	MYLIP	myosin regulatory light chain interacting protein [Source:HGNC Symbol;Acc:HGNC:21155]	326	-0.7	0.11	-6.68	2.46E-11	6.61E-10
ENSG00000197641	SERPINB13	serpin family B member 13 [Source:HGNC Symbol;Acc:HGNC:8944]	471	-0.7	0.09	-7.83	5.02E-15	1.92E-13
ENSG00000163131	CTSS	cathepsin S [Source:HGNC Symbol;Acc:HGNC:2545]	134	-0.7	0.16	-4.51	6.54E-06	7.43E-05
ENSG00000100271	TTL1	tubulin tyrosine ligase like 1 [Source:HGNC Symbol;Acc:HGNC:1312]	104	-0.7	0.20	-3.64	2.70E-04	0.0020372
ENSG00000218014	KRT19P1	keratin 19 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:33422]	84	-0.7	0.21	-3.50	4.72E-04	0.0033318
ENSG00000224940	PRRT4	proline rich transmembrane protein 4 [Source:HGNC Symbol;Acc:HGNC:37280]	909	-0.7	0.07	-10.55	5.14E-26	4.70E-24
ENSG00000123243	ITIH5	inter-alpha-trypsin inhibitor heavy chain 5 [Source:HGNC Symbol;Acc:HGNC:21449]	646	-0.7	0.08	-9.13	6.63E-20	3.89E-18
ENSG00000172086	KRCC1	lysine rich coiled-coil 1 [Source:HGNC Symbol;Acc:HGNC:28039]	186	-0.7	0.14	-5.09	3.60E-07	5.13E-06
ENSG00000164674	SYTL3	synaptotagmin like 3 [Source:HGNC Symbol;Acc:HGNC:15587]	46	-0.7	0.28	-2.59	0.009524	0.0414016
ENSG00000259877	ENSG00000259877	novel transcript, antisense to ZNF778	56	-0.7	0.26	-2.76	0.0057146	0.0272201
ENSG00000130701	RBBP8NL	RBBP8 N-terminal like [Source:HGNC Symbol;Acc:HGNC:16144]	415	-0.7	0.10	-7.22	5.04E-13	1.60E-11
ENSG00000196189	SEMA4A	semaphorin 4A [Source:HGNC Symbol;Acc:HGNC:10729]	107	-0.7	0.20	-3.65	2.62E-04	0.0019929
ENSG00000130487	KLHDCA7B	kelch domain containing 7B [Source:HGNC Symbol;Acc:HGNC:25145]	132	-0.7	0.17	-4.19	2.75E-05	2.72E-04
ENSG00000096006	CRISP3	cysteine rich secretory protein 3 [Source:HGNC Symbol;Acc:HGNC:16904]	85	-0.7	0.20	-3.52	4.37E-04	0.003106
ENSG00000130592	LSP1	lymphocyte specific protein 1 [Source:HGNC Symbol;Acc:HGNC:6707]	66	-0.7	0.25	-2.90	0.0037085	0.0190679
ENSG00000177614	PGBD5	piggyBac transposable element derived 5 [Source:HGNC Symbol;Acc:HGNC:19405]	117	-0.7	0.18	-4.02	5.80E-05	5.29E-04
ENSG00000073331	ALPK1	alpha kinase 1 [Source:HGNC Symbol;Acc:HGNC:20917]	220	-0.7	0.13	-5.38	7.60E-08	1.22E-06
ENSG00000092036	HAUS4	HAUS augmin like complex subunit 4 [Source:HGNC Symbol;Acc:HGNC:20163]	65	-0.7	0.24	-2.92	0.0034911	0.01817
ENSG00000115738	ID2	inhibitor of DNA binding 2 [Source:HGNC Symbol;Acc:HGNC:5361]	724	-0.7	0.08	-8.34	7.25E-17	3.33E-15
ENSG00000172382	PRSS27	serine protease 27 [Source:HGNC Symbol;Acc:HGNC:15475]	330	-0.7	0.11	-6.63	3.41E-11	8.93E-10
ENSG00000269896	ENSG00000269896	small nuclear ribonucleoprotein N (SNRPN) pseudogene	59	-0.7	0.24	-2.95	0.0032127	0.0170342
ENSG00000114841	DNAH1	dynein axonemal heavy chain 1 [Source:HGNC Symbol;Acc:HGNC:2940]	56	-0.7	0.25	-2.84	0.0045719	0.0227453
ENSG00000155926	SLA	Src like adaptor [Source:HGNC Symbol;Acc:HGNC:10902]	128	-0.7	0.19	-3.73	1.91E-04	0.0015013
ENSG00000186529	CYP4F3	cytochrome P450 family 4 subfamily F member 3 [Source:HGNC Symbol;Acc:HGNC:2646]	619	-0.7	0.08	-8.79	1.43E-18	7.51E-17
ENSG00000182492	BGN	biglycan [Source:HGNC Symbol;Acc:HGNC:1044]	1207	-0.7	0.06	-10.87	1.52E-27	1.53E-25
ENSG00000087250	MT3	metallothionein 3 [Source:HGNC Symbol;Acc:HGNC:7408]	124	-0.7	0.18	-3.81	1.37E-04	0.0011281
ENSG00000226964	RHEBP2	RHEB pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:44991]	68	-0.7	0.24	-2.94	0.0032663	0.017251
ENSG00000165389	SPTSSA	serine palmitoyltransferase small subunit A [Source:HGNC Symbol;Acc:HGNC:20361]	2691	-0.7	0.05	-14.65	1.33E-48	4.38E-46
ENSG00000095585	BLNK	B cell linker [Source:HGNC Symbol;Acc:HGNC:14211]	138	-0.7	0.17	-4.11	3.92E-05	3.73E-04
ENSG00000137628	DDX60	DEXD/H-box helicase 60 [Source:HGNC Symbol;Acc:HGNC:25942]	970	-0.7	0.07	-10.10	5.75E-24	4.48E-22
ENSG00000181908	LINC02724	long intergenic non-protein coding RNA 2724 [Source:HGNC Symbol;Acc:HGNC:54241]	75	-0.7	0.23	-2.99	0.0028354	0.0153938
ENSG00000167646	DNAAF3	dynein axonemal assembly factor 3 [Source:HGNC Symbol;Acc:HGNC:30492]	98	-0.7	0.19	-3.58	3.41E-04	0.0024951
ENSG00000134627	PIWIL4	piwi like RNA-mediated gene silencing 4 [Source:HGNC Symbol;Acc:HGNC:18444]	114	-0.7	0.18	-3.86	1.12E-04	9.46E-04

ENSG00000181143	MUC16	mucin 16, cell surface associated [Source:HGNC Symbol;Acc:HGNC:15582]	1080	-0.7	0.07	-10.48	1.06E-25	9.30E-24
ENSG00000163293	NIPAL1	NIPA like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:27194]	1031	-0.7	0.06	-10.95	6.89E-28	7.12E-26
ENSG00000150893	FREM2	FRAS1 related extracellular matrix 2 [Source:HGNC Symbol;Acc:HGNC:25396]	951	-0.7	0.07	-9.78	1.43E-22	1.03E-20
ENSG00000182782	HCAR2	hydroxycarboxylic acid receptor 2 [Source:HGNC Symbol;Acc:HGNC:24827]	93	-0.7	0.21	-3.29	9.93E-04	0.0063049
ENSG00000163823	CCR1	C-C motif chemokine receptor 1 [Source:HGNC Symbol;Acc:HGNC:1602]	133	-0.7	0.17	-3.91	9.05E-05	7.87E-04
ENSG00000133678	TMEM254	transmembrane protein 254 [Source:HGNC Symbol;Acc:HGNC:25804]	682	-0.7	0.08	-8.98	2.82E-19	1.56E-17
ENSG00000134760	DSG1	desmoglein 1 [Source:HGNC Symbol;Acc:HGNC:3048]	725	-0.7	0.07	-9.13	6.87E-20	4.01E-18
ENSG00000133135	RNF128	ring finger protein 128 [Source:HGNC Symbol;Acc:HGNC:21153]	61	-0.7	0.24	-2.84	0.004513	0.0224936
ENSG00000105514	RAB3D	RAB3D, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9779]	542	-0.7	0.09	-7.70	1.34E-14	4.83E-13
ENSG00000177575	CD163	CD163 molecule [Source:HGNC Symbol;Acc:HGNC:1631]	285	-0.7	0.23	-2.88	0.0039923	0.0203069
ENSG00000132746	ALDH3B2	aldehyde dehydrogenase 3 family member B2 [Source:HGNC Symbol;Acc:HGNC:411]	264	-0.7	0.12	-5.52	3.32E-08	5.62E-07
ENSG00000105655	ISYNA1	inositol-3-phosphate synthase 1 [Source:HGNC Symbol;Acc:HGNC:29821]	1990	-0.7	0.05	-12.54	4.57E-36	6.82E-34
ENSG00000157601	MX1	MX dynamin like GTPase 1 [Source:HGNC Symbol;Acc:HGNC:7532]	7927	-0.7	0.03	-19.56	3.57E-85	3.84E-82
ENSG00000156500	PABIR3	PABIR family member 3 [Source:HGNC Symbol;Acc:HGNC:25202]	66	-0.7	0.23	-2.88	0.0039802	0.0202578
ENSG00000006534	ALDH3B1	aldehyde dehydrogenase 3 family member B1 [Source:HGNC Symbol;Acc:HGNC:410]	663	-0.7	0.08	-8.73	2.56E-18	1.31E-16
ENSG00000140451	PIF1	PIF1 5'-to-3' DNA helicase [Source:HGNC Symbol;Acc:HGNC:26220]	388	-0.7	0.10	-6.43	1.30E-10	3.14E-09
ENSG00000129455	KLK8	kallikrein related peptidase 8 [Source:HGNC Symbol;Acc:HGNC:6369]	68	-0.7	0.24	-2.79	0.0053433	0.0257178
ENSG00000111344	RASAL1	RAS protein activator like 1 [Source:HGNC Symbol;Acc:HGNC:9873]	64	-0.7	0.23	-2.83	0.0046061	0.0228589
ENSG00000185010	F8	coagulation factor VIII [Source:HGNC Symbol;Acc:HGNC:3546]	79	-0.7	0.21	-3.16	0.001603	0.0094716
ENSG00000180353	HCLS1	hematopoietic cell-specific Lyn substrate 1 [Source:HGNC Symbol;Acc:HGNC:4844]	106	-0.7	0.21	-3.06	0.0022216	0.0125165
ENSG00000121966	CXCR4	C-X-C motif chemokine receptor 4 [Source:HGNC Symbol;Acc:HGNC:2561]	84	-0.7	0.25	-2.59	0.0095634	0.0415056
ENSG00000148400	NOTCH1	notch receptor 1 [Source:HGNC Symbol;Acc:HGNC:7881]	908	-0.7	0.07	-9.64	5.68E-22	3.93E-20
ENSG00000196696	PDXDC2P-NPIP	nuclear pore complex-interacting protein [Source:NCBI gene (formerly Entrezgene);Acc:283970]	64	-0.7	0.23	-2.82	0.0048251	0.0237196
ENSG00000134258	VTCN1	V-set domain containing T cell activation inhibitor 1 [Source:HGNC Symbol;Acc:HGNC:28873]	901	-0.7	0.08	-8.19	2.64E-16	1.15E-14
ENSG00000183401	CCDC159	coiled-coil domain containing 159 [Source:HGNC Symbol;Acc:HGNC:26996]	134	-0.6	0.16	-4.04	5.37E-05	4.94E-04
ENSG00000090661	CERS4	ceramide synthase 4 [Source:HGNC Symbol;Acc:HGNC:23747]	471	-0.6	0.09	-7.36	1.78E-13	5.92E-12
ENSG00000124143	ARHGAP40	Rho GTPase activating protein 40 [Source:HGNC Symbol;Acc:HGNC:16226]	1102	-0.6	0.06	-10.42	1.93E-25	1.68E-23
ENSG00000183145	RIPPLY3	rippy transcriptional repressor 3 [Source:HGNC Symbol;Acc:HGNC:3047]	154	-0.6	0.15	-4.24	2.24E-05	2.26E-04
ENSG00000162390	ACOT11	acyl-CoA thioesterase 11 [Source:HGNC Symbol;Acc:HGNC:18156]	298	-0.6	0.11	-5.83	5.52E-09	1.07E-07
ENSG00000116032	GRIN3B	glutamate ionotropic receptor NMDA type subunit 3B [Source:HGNC Symbol;Acc:HGNC:16768]	72	-0.6	0.23	-2.83	0.0046726	0.0231321
ENSG00000106571	GLI3	GLI family zinc finger 3 [Source:HGNC Symbol;Acc:HGNC:4319]	299	-0.6	0.11	-5.94	2.81E-09	5.66E-08
ENSG00000076770	MBNL3	muscleblind like splicing regulator 3 [Source:HGNC Symbol;Acc:HGNC:20564]	114	-0.6	0.19	-3.43	5.95E-04	0.0040733
ENSG00000169635	HIC2	HIC ZBTB transcriptional repressor 2 [Source:HGNC Symbol;Acc:HGNC:18595]	1201	-0.6	0.06	-10.73	7.16E-27	6.83E-25
ENSG00000133315	MACROD1	mono-ADP ribosylhydrolase 1 [Source:HGNC Symbol;Acc:HGNC:29598]	422	-0.6	0.10	-6.43	1.29E-10	3.13E-09
ENSG00000171462	DLK2	delta like non-canonical Notch ligand 2 [Source:HGNC Symbol;Acc:HGNC:21113]	392	-0.6	0.10	-6.56	5.37E-11	1.37E-09
ENSG00000108691	CCL2	C-C motif chemokine ligand 2 [Source:HGNC Symbol;Acc:HGNC:10618]	155	-0.6	0.18	-3.57	3.61E-04	0.0026267
ENSG00000204323	SMIM5	small integral membrane protein 5 [Source:HGNC Symbol;Acc:HGNC:40030]	1286	-0.6	0.06	-10.89	1.30E-27	1.32E-25
ENSG00000169758	TMEM266	transmembrane protein 266 [Source:HGNC Symbol;Acc:HGNC:26763]	224	-0.6	0.13	-5.00	5.75E-07	7.89E-06
ENSG00000245848	CEBPA	CCAAT enhancer binding protein alpha [Source:HGNC Symbol;Acc:HGNC:1833]	404	-0.6	0.12	-5.11	3.14E-07	4.52E-06
ENSG00000156587	UBE2L6	ubiquitin conjugating enzyme E2 L6 [Source:HGNC Symbol;Acc:HGNC:12490]	2273	-0.6	0.05	-12.75	3.13E-37	5.05E-35
ENSG00000110492	MDK	midkine [Source:HGNC Symbol;Acc:HGNC:6972]	2469	-0.6	0.05	-13.72	8.22E-43	1.92E-40
ENSG00000237149	ZNF503-AS2	ZNF503 antisense RNA 2 [Source:HGNC Symbol;Acc:HGNC:23525]	126	-0.6	0.17	-3.71	2.06E-04	0.0016077

ENSG00000134317	GRHL1	grainyhead like transcription factor 1 [Source:HGNC Symbol;Acc:HGNC:17923]	1375	-0.6	0.06	-10.51	7.58E-26	6.78E-24
ENSG00000180251	SLC9A4	solute carrier family 9 member A4 [Source:HGNC Symbol;Acc:HGNC:11077]	94	-0.6	0.21	-2.98	0.002889	0.0156373
ENSG00000164050	PLXNB1	plexin B1 [Source:HGNC Symbol;Acc:HGNC:9103]	2574	-0.6	0.04	-13.89	7.81E-44	2.03E-41
ENSG00000137975	CLCA2	chloride channel accessory 2 [Source:HGNC Symbol;Acc:HGNC:2016]	2440	-0.6	0.04	-13.84	1.41E-43	3.54E-41
ENSG00000103490	PYCARD	PYD and CARD domain containing [Source:HGNC Symbol;Acc:HGNC:16608]	217	-0.6	0.13	-4.78	1.78E-06	2.25E-05
ENSG00000165795	NDRG2	NDRG family member 2 [Source:HGNC Symbol;Acc:HGNC:14460]	252	-0.6	0.12	-5.15	2.57E-07	3.74E-06
ENSG00000127954	STEAP4	STEAP4 metalloredutase [Source:HGNC Symbol;Acc:HGNC:21923]	319	-0.6	0.11	-5.60	2.19E-08	3.85E-07
ENSG00000116711	PLA2G4A	phospholipase A2 group IVA [Source:HGNC Symbol;Acc:HGNC:9035]	106	-0.6	0.19	-3.22	0.0013007	0.0079389
ENSG00000255690	TRIL	TLR4 interactor with leucine rich repeats [Source:HGNC Symbol;Acc:HGNC:22200]	102	-0.6	0.20	-3.12	0.0017845	0.0103915
ENSG00000149043	SYT8	synaptotagmin 8 [Source:HGNC Symbol;Acc:HGNC:19264]	98	-0.6	0.19	-3.26	0.0011161	0.0069846
ENSG00000134321	RSAD2	radical S-adenosyl methionine domain containing 2 [Source:HGNC Symbol;Acc:HGNC:30908]	826	-0.6	0.19	-3.21	0.0013219	0.0080525
ENSG00000184985	SORCS2	sortilin related VPS10 domain containing receptor 2 [Source:HGNC Symbol;Acc:HGNC:16698]	109	-0.6	0.19	-3.17	0.0015167	0.0090348
ENSG00000282851	BISPR	BST2 interferon stimulated positive regulator [Source:HGNC Symbol;Acc:HGNC:51290]	173	-0.6	0.15	-4.11	3.90E-05	3.72E-04
ENSG00000144648	ACKR2	atypical chemokine receptor 2 [Source:HGNC Symbol;Acc:HGNC:1565]	86	-0.6	0.20	-3.09	0.0020065	0.011465
ENSG00000072310	SREBF1	sterol regulatory element binding transcription factor 1 [Source:HGNC Symbol;Acc:HGNC:11289]	2103	-0.6	0.06	-10.84	2.26E-27	2.25E-25
ENSG00000104361	NIPAL2	NIPA like domain containing 2 [Source:HGNC Symbol;Acc:HGNC:25854]	325	-0.6	0.10	-5.83	5.69E-09	1.10E-07
ENSG00000187266	EPOR	erythropoietin receptor [Source:HGNC Symbol;Acc:HGNC:3416]	125	-0.6	0.17	-3.52	4.26E-04	0.0030412
ENSG00000158106	RHPN1	rhophilin Rho GTPase binding protein 1 [Source:HGNC Symbol;Acc:HGNC:19973]	530	-0.6	0.09	-7.13	9.93E-13	3.03E-11
ENSG00000101144	BMP7	bone morphogenetic protein 7 [Source:HGNC Symbol;Acc:HGNC:1074]	7304	-0.6	0.04	-16.29	1.24E-59	5.55E-57
ENSG00000142449	FBN3	fibrillin 3 [Source:HGNC Symbol;Acc:HGNC:18794]	131	-0.6	0.18	-3.45	5.66E-04	0.0039004
ENSG00000105894	PTN	pleiotrophin [Source:HGNC Symbol;Acc:HGNC:9630]	104	-0.6	0.20	-2.99	0.0027942	0.0151956
ENSG00000121316	PLBD1	phospholipase B domain containing 1 [Source:HGNC Symbol;Acc:HGNC:26215]	1042	-0.6	0.07	-8.95	3.67E-19	2.01E-17
ENSG00000117480	FAAH	fatty acid amide hydrolase [Source:HGNC Symbol;Acc:HGNC:3553]	95	-0.6	0.19	-3.12	0.0017902	0.0104175
ENSG00000060656	PTPRU	protein tyrosine phosphatase receptor type U [Source:HGNC Symbol;Acc:HGNC:9683]	3579	-0.6	0.04	-14.61	2.26E-48	7.14E-46
ENSG00000223572	CKMT1A	creatine kinase, mitochondrial 1A [Source:HGNC Symbol;Acc:HGNC:31736]	309	-0.6	0.12	-5.12	3.04E-07	4.40E-06
ENSG00000142765	SYTL1	synaptotagmin like 1 [Source:HGNC Symbol;Acc:HGNC:15584]	815	-0.6	0.07	-8.35	6.98E-17	3.22E-15
ENSG00000144847	IGSF11	immunoglobulin superfamily member 11 [Source:HGNC Symbol;Acc:HGNC:16669]	108	-0.6	0.18	-3.34	8.37E-04	0.0054444
ENSG00000259943	ENSG00000259943	novel transcript, antisense to ZMPSTE24	104	-0.6	0.18	-3.28	0.0010281	0.0065015
ENSG00000163565	IFI16	interferon gamma inducible protein 16 [Source:HGNC Symbol;Acc:HGNC:5395]	682	-0.6	0.08	-7.15	8.59E-13	2.65E-11
ENSG00000182054	IDH2	isocitrate dehydrogenase (NADP(+)) 2 [Source:HGNC Symbol;Acc:HGNC:5383]	1908	-0.6	0.06	-10.73	7.24E-27	6.87E-25
ENSG00000152582	SPEF2	sperm flagellar 2 [Source:HGNC Symbol;Acc:HGNC:26293]	150	-0.6	0.16	-3.76	1.69E-04	0.0013495
ENSG00000172594	SMPDL3A	sphingomyelin phosphodiesterase acid like 3A [Source:HGNC Symbol;Acc:HGNC:17389]	1007	-0.6	0.06	-9.42	4.40E-21	2.80E-19
ENSG00000160271	RALGDS	ral guanine nucleotide dissociation stimulator [Source:HGNC Symbol;Acc:HGNC:9842]	67	-0.6	0.23	-2.60	0.0093964	0.0409796
ENSG00000105223	PLD3	phospholipase D family member 3 [Source:HGNC Symbol;Acc:HGNC:17158]	3739	-0.6	0.05	-12.31	8.19E-35	1.17E-32
ENSG00000154856	APCDD1	APC down-regulated 1 [Source:HGNC Symbol;Acc:HGNC:15718]	101	-0.6	0.18	-3.23	0.0012349	0.0075895
ENSG00000165092	ALDH1A1	aldehyde dehydrogenase 1 family member A1 [Source:HGNC Symbol;Acc:HGNC:402]	75	-0.6	0.22	-2.65	0.0080337	0.0360511
ENSG00000185880	TRIM69	tripartite motif containing 69 [Source:HGNC Symbol;Acc:HGNC:17857]	127	-0.6	0.16	-3.59	3.27E-04	0.0024096
ENSG00000082482	KCNK2	potassium two pore domain channel subfamily K member 2 [Source:HGNC Symbol;Acc:HGNC:6277]	97	-0.6	0.19	-3.11	0.0018686	0.0108037
ENSG00000136235	GPNMB	glycoprotein nmb [Source:HGNC Symbol;Acc:HGNC:4462]	963	-0.6	0.07	-8.05	7.98E-16	3.35E-14
ENSG00000169035	KLK7	kallikrein related peptidase 7 [Source:HGNC Symbol;Acc:HGNC:6368]	126	-0.6	0.18	-3.20	0.0013745	0.0083042
ENSG00000124374	PAIP2B	poly(A) binding protein interacting protein 2B [Source:HGNC Symbol;Acc:HGNC:29200]	217	-0.6	0.13	-4.51	6.57E-06	7.46E-05
ENSG00000126709	IFI6	interferon alpha inducible protein 6 [Source:HGNC Symbol;Acc:HGNC:4054]	32487	-0.6	0.03	-19.11	1.94E-81	1.65E-78

ENSG00000107736	CDH23	cadherin related 23 [Source:HGNC Symbol;Acc:HGNC:13733]	105	-0.6	0.18	-3.19	0.0014226	0.0085466
ENSG00000134326	CMPK2	cytidine/uridine monophosphate kinase 2 [Source:HGNC Symbol;Acc:HGNC:27015]	361	-0.6	0.11	-5.30	1.17E-07	1.82E-06
ENSG00000160111	CPAMD8	C3 and PZP like alpha-2-macroglobulin domain containing 8 [Source:HGNC Symbol;Acc:HGNC:23228]	947	-0.6	0.07	-8.91	4.91E-19	2.64E-17
ENSG00000182580	EPHB3	EPH receptor B3 [Source:HGNC Symbol;Acc:HGNC:3394]	998	-0.6	0.07	-8.78	1.67E-18	8.73E-17
ENSG00000178685	PARP10	poly(ADP-ribose) polymerase family member 10 [Source:HGNC Symbol;Acc:HGNC:25895]	2920	-0.6	0.04	-13.77	3.61E-43	8.83E-41
ENSG00000100368	CSF2RB	colony stimulating factor 2 receptor subunit beta [Source:HGNC Symbol;Acc:HGNC:2436]	386	-0.6	0.10	-5.94	2.93E-09	5.87E-08
ENSG00000177076	ACER2	alkaline ceramidase 2 [Source:HGNC Symbol;Acc:HGNC:23675]	108	-0.6	0.18	-3.16	0.0015831	0.0093712
ENSG00000159403	C1R	complement C1r [Source:HGNC Symbol;Acc:HGNC:1246]	136	-0.6	0.16	-3.54	4.02E-04	0.0029018
ENSG00000170927	PKHD1	PKHD1 ciliary IPT domain containing fibrocystin/polyductin [Source:HGNC Symbol;Acc:HGNC:9016]	132	-0.6	0.17	-3.44	5.73E-04	0.0039457
ENSG00000196154	S100A4	S100 calcium binding protein A4 [Source:HGNC Symbol;Acc:HGNC:10494]	306	-0.6	0.13	-4.33	1.52E-05	1.58E-04
ENSG00000140853	NLR5	NLR family CARD domain containing 5 [Source:HGNC Symbol;Acc:HGNC:29933]	317	-0.6	0.11	-5.36	8.16E-08	1.30E-06
ENSG00000105518	TMEM205	transmembrane protein 205 [Source:HGNC Symbol;Acc:HGNC:29631]	192	-0.6	0.14	-4.09	4.23E-05	4.00E-04
ENSG00000077942	FBLN1	fibulin 1 [Source:HGNC Symbol;Acc:HGNC:3600]	4153	-0.6	0.04	-13.06	5.74E-39	1.02E-36
ENSG00000063180	CA11	carbonic anhydrase 11 [Source:HGNC Symbol;Acc:HGNC:1370]	136	-0.6	0.16	-3.53	4.16E-04	0.0029897
ENSG00000250256	ENSG00000250256	novel transcript	142	-0.6	0.16	-3.56	3.67E-04	0.0026673
ENSG00000064655	EYA2	EYA transcriptional coactivator and phosphatase 2 [Source:HGNC Symbol;Acc:HGNC:3520]	187	-0.6	0.14	-3.96	7.64E-05	6.75E-04
ENSG00000213983	AP1G2	adaptor related protein complex 1 subunit gamma 2 [Source:HGNC Symbol;Acc:HGNC:556]	204	-0.6	0.15	-3.90	9.54E-05	8.23E-04
ENSG00000121898	CPXM2	carboxypeptidase X, M14 family member 2 [Source:HGNC Symbol;Acc:HGNC:26977]	199	-0.6	0.14	-4.17	3.05E-05	2.98E-04
ENSG00000197847	SLC22A20P	solute carrier family 22 member 20, pseudogene [Source:HGNC Symbol;Acc:HGNC:29867]	95	-0.6	0.19	-2.88	0.0039433	0.020102
ENSG00000198246	SLC29A3	solute carrier family 29 member 3 [Source:HGNC Symbol;Acc:HGNC:23096]	161	-0.6	0.15	-3.72	1.96E-04	0.0015396
ENSG00000011600	TYROBP	transmembrane immune signaling adaptor TYROBP [Source:HGNC Symbol;Acc:HGNC:12449]	135	-0.6	0.20	-2.74	0.00608	0.0286477
ENSG00000170190	SLC16A5	solute carrier family 16 member 5 [Source:HGNC Symbol;Acc:HGNC:10926]	351	-0.6	0.10	-5.50	3.88E-08	6.48E-07
ENSG00000260231	KDM7A-DT	KDM7A divergent transcript [Source:HGNC Symbol;Acc:HGNC:48959]	116	-0.6	0.17	-3.25	0.0011709	0.0072789
ENSG00000185745	IFIT1	interferon induced protein with tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:HGNC:5407]	3380	-0.6	0.05	-10.56	4.67E-26	4.30E-24
ENSG00000179604	CDC42EP4	CDC42 effector protein 4 [Source:HGNC Symbol;Acc:HGNC:17147]	318	-0.6	0.11	-5.12	2.99E-07	4.33E-06
ENSG00000070759	TESK2	testis associated actin remodelling kinase 2 [Source:HGNC Symbol;Acc:HGNC:11732]	508	-0.6	0.09	-5.93	3.01E-09	6.02E-08
ENSG00000113657	DPYSL3	dihydropyrimidinase like 3 [Source:HGNC Symbol;Acc:HGNC:3015]	161	-0.6	0.18	-3.03	0.0024429	0.0135689
ENSG00000198496	NBR2	neighbor of BRCA1 lncRNA 2 [Source:HGNC Symbol;Acc:HGNC:20691]	108	-0.5	0.18	-3.08	0.0020789	0.0118157
ENSG00000148341	SH3GLB2	SH3 domain containing GRB2 like, endophilin B2 [Source:HGNC Symbol;Acc:HGNC:10834]	2831	-0.5	0.05	-11.40	4.06E-30	4.64E-28
ENSG00000138496	PARP9	poly(ADP-ribose) polymerase family member 9 [Source:HGNC Symbol;Acc:HGNC:24118]	2534	-0.5	0.05	-11.45	2.48E-30	2.86E-28
ENSG00000143850	PLEKHA6	pleckstrin homology domain containing A6 [Source:HGNC Symbol;Acc:HGNC:17053]	612	-0.5	0.08	-6.69	2.21E-11	5.97E-10
ENSG00000233695	GAS6-AS1	GAS6 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:39826]	130	-0.5	0.16	-3.31	9.32E-04	0.0059782
ENSG00000120915	EPHX2	epoxide hydrolase 2 [Source:HGNC Symbol;Acc:HGNC:3402]	120	-0.5	0.18	-3.09	0.0019768	0.0113192
ENSG00000137965	IFI44	interferon induced protein 44 [Source:HGNC Symbol;Acc:HGNC:16938]	1577	-0.5	0.06	-9.57	1.07E-21	7.21E-20
ENSG00000171345	KRT19	keratin 19 [Source:HGNC Symbol;Acc:HGNC:6436]	24123	-0.5	0.03	-16.84	1.35E-63	7.03E-61
ENSG00000166669	ATF7IP2	activating transcription factor 7 interacting protein 2 [Source:HGNC Symbol;Acc:HGNC:20397]	124	-0.5	0.18	-3.09	0.0019698	0.0112874
ENSG00000064309	CDON	cell adhesion associated, oncogene regulated [Source:HGNC Symbol;Acc:HGNC:17104]	94	-0.5	0.20	-2.70	0.0068588	0.0315737
ENSG00000121552	CSTA	cystatin A [Source:HGNC Symbol;Acc:HGNC:2481]	776	-0.5	0.15	-3.70	2.12E-04	0.0016481
ENSG00000148660	CAMK2G	calcium/calmodulin dependent protein kinase II gamma [Source:HGNC Symbol;Acc:HGNC:1463]	4218	-0.5	0.04	-12.50	7.28E-36	1.08E-33
ENSG00000100505	TRIM9	tripartite motif containing 9 [Source:HGNC Symbol;Acc:HGNC:16288]	432	-0.5	0.09	-5.67	1.40E-08	2.53E-07
ENSG00000182957	SPATA13	spermatogenesis associated 13 [Source:HGNC Symbol;Acc:HGNC:23222]	174	-0.5	0.14	-3.80	1.46E-04	0.0011875
ENSG00000182487	NCF1B	neutrophil cytosolic factor 1B pseudogene [Source:HGNC Symbol;Acc:HGNC:32522]	97	-0.5	0.20	-2.61	0.0089391	0.0394153

ENSG00000118156	ZNF541	zinc finger protein 541 [Source:HGNC Symbol;Acc:HGNC:25294]	107	-0.5	0.18	-2.94	0.0033316	0.0175097
ENSG00000075275	CELSR1	cadherin EGF LAG seven-pass G-type receptor 1 [Source:HGNC Symbol;Acc:HGNC:1850]	1308	-0.5	0.06	-8.45	2.91E-17	1.37E-15
ENSG00000166436	TRIM66	tripartite motif containing 66 [Source:HGNC Symbol;Acc:HGNC:29005]	107	-0.5	0.18	-2.96	0.0031073	0.0165518
ENSG00000111275	ALDH2	aldehyde dehydrogenase 2 family member [Source:HGNC Symbol;Acc:HGNC:404]	538	-0.5	0.08	-6.34	2.28E-10	5.33E-09
ENSG00000132530	XAF1	XIAP associated factor 1 [Source:HGNC Symbol;Acc:HGNC:30932]	326	-0.5	0.11	-4.89	9.95E-07	1.32E-05
ENSG00000116574	RHOU	ras homolog family member U [Source:HGNC Symbol;Acc:HGNC:17794]	400	-0.5	0.10	-5.52	3.45E-08	5.81E-07
ENSG00000107242	PIP5K1B	phosphatidylinositol-4-phosphate 5-kinase type 1 beta [Source:HGNC Symbol;Acc:HGNC:8995]	141	-0.5	0.15	-3.42	6.25E-04	0.0042523
ENSG00000178038	ALS2CL	ALS2 C-terminal like [Source:HGNC Symbol;Acc:HGNC:20605]	2355	-0.5	0.05	-10.90	1.11E-27	1.13E-25
ENSG00000159921	GNE	glucosamine (UDP-N-acetyl)-2-epimerase/N-acetylmannosamine kinase [Source:HGNC Symbol;Acc:HGNC:2	1825	-0.5	0.06	-9.56	1.21E-21	8.04E-20
ENSG00000153029	MR1	major histocompatibility complex, class I-related [Source:HGNC Symbol;Acc:HGNC:4975]	283	-0.5	0.12	-4.56	5.20E-06	5.99E-05
ENSG00000226067	LINC00623	long intergenic non-protein coding RNA 623 [Source:HGNC Symbol;Acc:HGNC:44252]	86	-0.5	0.20	-2.65	0.0081016	0.0362852
ENSG00000124429	POF1B	POF1B actin binding protein [Source:HGNC Symbol;Acc:HGNC:13711]	581	-0.5	0.08	-6.30	3.07E-10	7.00E-09
ENSG00000228526	MIR34AHG	MIR34A host gene [Source:HGNC Symbol;Acc:HGNC:51913]	277	-0.5	0.12	-4.46	8.10E-06	9.01E-05
ENSG00000179023	KLHDC7A	kelch domain containing 7A [Source:HGNC Symbol;Acc:HGNC:26791]	174	-0.5	0.14	-3.63	2.84E-04	0.0021292
ENSG00000165168	CYBB	cytochrome b-245 beta chain [Source:HGNC Symbol;Acc:HGNC:2578]	189	-0.5	0.17	-3.10	0.0019502	0.0111867
ENSG00000224652	LINC00885	long intergenic non-protein coding RNA 885 [Source:HGNC Symbol;Acc:HGNC:48571]	144	-0.5	0.16	-3.33	8.55E-04	0.0055484
ENSG00000171298	GAA	alpha glucosidase [Source:HGNC Symbol;Acc:HGNC:4065]	893	-0.5	0.07	-7.70	1.38E-14	4.97E-13
ENSG00000179981	TSHZ1	teashirt zinc finger homeobox 1 [Source:HGNC Symbol;Acc:HGNC:10669]	139	-0.5	0.16	-3.24	0.0011931	0.0073856
ENSG00000081237	PTPRC	protein tyrosine phosphatase receptor type C [Source:HGNC Symbol;Acc:HGNC:9666]	126	-0.5	0.17	-3.01	0.002632	0.0144498
ENSG00000091622	PITPNM3	PITPNM family member 3 [Source:HGNC Symbol;Acc:HGNC:21043]	1043	-0.5	0.06	-8.36	6.30E-17	2.91E-15
ENSG00000215845	TSTD1	thiosulfate sulfurtransferase like domain containing 1 [Source:HGNC Symbol;Acc:HGNC:35410]	168	-0.5	0.15	-3.52	4.27E-04	0.0030509
ENSG00000118257	NRP2	neuropilin 2 [Source:HGNC Symbol;Acc:HGNC:8005]	269	-0.5	0.12	-4.36	1.29E-05	1.36E-04
ENSG00000117280	RAB29	RAB29, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9789]	438	-0.5	0.09	-5.71	1.15E-08	2.10E-07
ENSG00000027001	MIPEP	mitochondrial intermediate peptidase [Source:HGNC Symbol;Acc:HGNC:7104]	288	-0.5	0.11	-4.69	2.67E-06	3.26E-05
ENSG00000081479	LRP2	LDL receptor related protein 2 [Source:HGNC Symbol;Acc:HGNC:6694]	1375	-0.5	0.06	-9.14	6.46E-20	3.80E-18
ENSG00000147872	PLIN2	perilipin 2 [Source:HGNC Symbol;Acc:HGNC:248]	1677	-0.5	0.06	-8.77	1.76E-18	9.17E-17
ENSG00000186088	GSAP	gamma-secretase activating protein [Source:HGNC Symbol;Acc:HGNC:28042]	108	-0.5	0.18	-2.86	0.0042345	0.0213435
ENSG00000115525	ST3GAL5	ST3 beta-galactoside alpha-2,3-sialyltransferase 5 [Source:HGNC Symbol;Acc:HGNC:10872]	611	-0.5	0.08	-6.32	2.64E-10	6.08E-09
ENSG00000183458	PKD1P3	polycystin 1, transient receptor potential channel interacting pseudogene 3 [Source:HGNC Symbol;Acc:HGNC:27455]	150	-0.5	0.17	-3.00	0.0027108	0.0148238
ENSG00000140465	CYP1A1	cytochrome P450 family 1 subfamily A member 1 [Source:HGNC Symbol;Acc:HGNC:2595]	2191	-0.5	0.05	-10.63	2.15E-26	2.02E-24
ENSG00000115594	IL1R1	interleukin 1 receptor type 1 [Source:HGNC Symbol;Acc:HGNC:5993]	1169	-0.5	0.06	-8.27	1.38E-16	6.17E-15
ENSG00000280206	ENSG00000280206	novel transcript	160	-0.5	0.15	-3.31	9.20E-04	0.0059131
ENSG00000088305	DNMT3B	DNA methyltransferase 3 beta [Source:HGNC Symbol;Acc:HGNC:2979]	2275	-0.5	0.05	-10.84	2.15E-27	2.15E-25
ENSG00000185361	TNFAIP8L1	TNF alpha induced protein 8 like 1 [Source:HGNC Symbol;Acc:HGNC:28279]	233	-0.5	0.13	-4.01	5.97E-05	5.43E-04
ENSG00000167771	RCOR2	REST corepressor 2 [Source:HGNC Symbol;Acc:HGNC:27455]	118	-0.5	0.17	-2.96	0.0031108	0.016565
ENSG00000196371	FUT4	fucosyltransferase 4 [Source:HGNC Symbol;Acc:HGNC:4015]	297	-0.5	0.11	-4.46	8.27E-06	9.17E-05
ENSG00000110455	ACCS	1-aminocyclopropane-1-carboxylate synthase homolog (inactive) [Source:HGNC Symbol;Acc:HGNC:23989]	195	-0.5	0.14	-3.74	1.81E-04	0.0014345
ENSG00000204219	TCEA3	transcription elongation factor A3 [Source:HGNC Symbol;Acc:HGNC:11615]	335	-0.5	0.10	-4.88	1.04E-06	1.37E-05
ENSG00000144857	BOC	BOC cell adhesion associated, oncogene regulated [Source:HGNC Symbol;Acc:HGNC:17173]	315	-0.5	0.11	-4.60	4.15E-06	4.87E-05
ENSG00000163629	PTPN13	protein tyrosine phosphatase non-receptor type 13 [Source:HGNC Symbol;Acc:HGNC:9646]	3423	-0.5	0.04	-12.40	2.75E-35	3.96E-33
ENSG00000172020	GAP43	growth associated protein 43 [Source:HGNC Symbol;Acc:HGNC:4140]	298	-0.5	0.14	-3.63	2.80E-04	0.0021063
ENSG00000119514	GALNT12	polypeptide N-acetylgalactosaminyltransferase 12 [Source:HGNC Symbol;Acc:HGNC:19877]	541	-0.5	0.09	-5.35	8.56E-08	1.36E-06

ENSG0000042493	CAPG	capping actin protein, gelsolin like [Source:HGNC Symbol;Acc:HGNC:1474]	6288	-0.5	0.04	-12.67	8.95E-37	1.40E-34
ENSG0000068079	IFI35	interferon induced protein 35 [Source:HGNC Symbol;Acc:HGNC:5399]	1099	-0.5	0.07	-7.49	7.02E-14	2.43E-12
ENSG0000007255	TRAPPC6A	trafficking protein particle complex 6A [Source:HGNC Symbol;Acc:HGNC:23069]	531	-0.5	0.09	-5.74	9.31E-09	1.75E-07
ENSG0000051523	CYBA	cytochrome b-245 alpha chain [Source:HGNC Symbol;Acc:HGNC:2577]	281	-0.5	0.13	-3.79	1.48E-04	0.0012009
ENSG00000186806	VSIG10L	V-set and immunoglobulin domain containing 10 like [Source:HGNC Symbol;Acc:HGNC:27111]	556	-0.5	0.09	-5.79	7.05E-09	1.34E-07
ENSG00000179133	C10orf67	chromosome 10 open reading frame 67 [Source:HGNC Symbol;Acc:HGNC:28716]	126	0.5	0.18	2.84	0.0045718	0.0227453
ENSG00000101292	PROKR2	prokineticin receptor 2 [Source:HGNC Symbol;Acc:HGNC:15836]	100	0.5	0.19	2.68	0.0074135	0.0336617
ENSG00000169469	SPRR1B	small proline rich protein 1B [Source:HGNC Symbol;Acc:HGNC:11260]	1021	0.5	0.08	6.10	1.03E-09	2.20E-08
ENSG00000075624	ACTB	actin beta [Source:HGNC Symbol;Acc:HGNC:132]	176386	0.5	0.03	16.90	4.46E-64	2.48E-61
ENSG00000235109	ZSCAN31	zinc finger and SCAN domain containing 31 [Source:HGNC Symbol;Acc:HGNC:14097]	260	0.5	0.12	4.22	2.47E-05	2.47E-04
ENSG00000171793	CTPS1	CTP synthase 1 [Source:HGNC Symbol;Acc:HGNC:2519]	10074	0.5	0.04	14.14	2.02E-45	5.70E-43
ENSG00000019144	PHLDB1	pleckstrin homology like domain family B member 1 [Source:HGNC Symbol;Acc:HGNC:23697]	1133	0.5	0.06	8.31	9.60E-17	4.36E-15
ENSG00000170017	ALCAM	activated leukocyte cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:400]	277	0.5	0.12	4.27	1.94E-05	1.98E-04
ENSG00000131016	AKAP12	A-kinase anchoring protein 12 [Source:HGNC Symbol;Acc:HGNC:370]	263	0.5	0.13	3.88	1.04E-04	8.87E-04
ENSG00000163069	SGCB	sarcoglycan beta [Source:HGNC Symbol;Acc:HGNC:10806]	1033	0.5	0.07	7.48	7.29E-14	2.51E-12
ENSG00000145555	MYO10	myosin X [Source:HGNC Symbol;Acc:HGNC:7593]	341	0.5	0.11	4.66	3.16E-06	3.82E-05
ENSG00000172575	RASGRP1	RAS guanyl releasing protein 1 [Source:HGNC Symbol;Acc:HGNC:9878]	608	0.5	0.08	6.16	7.51E-10	1.63E-08
ENSG00000131188	PRR7	proline rich 7, synaptic [Source:HGNC Symbol;Acc:HGNC:28130]	108	0.5	0.19	2.68	0.0073015	0.0332276
ENSG00000188677	PARVB	parvin beta [Source:HGNC Symbol;Acc:HGNC:14653]	150	0.5	0.16	3.23	0.001222	0.0075265
ENSG00000240694	PNMA2	PNMA family member 2 [Source:HGNC Symbol;Acc:HGNC:9159]	167	0.5	0.15	3.48	5.04E-04	0.0035284
ENSG00000177469	CAVIN1	caveolae associated protein 1 [Source:HGNC Symbol;Acc:HGNC:9688]	19695	0.5	0.03	16.39	2.08E-60	9.88E-58
ENSG00000137267	TUBB2A	tubulin beta 2A class IIa [Source:HGNC Symbol;Acc:HGNC:12412]	1471	0.5	0.07	7.58	3.48E-14	1.23E-12
ENSG00000122591	FAM126A	family with sequence similarity 126 member A [Source:HGNC Symbol;Acc:HGNC:24587]	1900	0.5	0.05	9.89	4.41E-23	3.26E-21
ENSG00000090339	ICAM1	intercellular adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:5344]	648	0.5	0.08	6.61	3.93E-11	1.02E-09
ENSG00000182585	EPGN	epithelial mitogen [Source:HGNC Symbol;Acc:HGNC:17470]	3476	0.5	0.05	10.12	4.32E-24	3.38E-22
ENSG00000152402	GUCY1A2	guanylate cyclase 1 soluble subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:4684]	156	0.5	0.15	3.38	7.17E-04	0.0047771
ENSG00000138399	FASTKD1	FAST kinase domains 1 [Source:HGNC Symbol;Acc:HGNC:26150]	303	0.5	0.11	4.46	8.07E-06	8.99E-05
ENSG00000186297	GABRA5	gamma-aminobutyric acid type A receptor subunit alpha5 [Source:HGNC Symbol;Acc:HGNC:4079]	482	0.5	0.09	5.85	4.80E-09	9.34E-08
ENSG00000035403	VCL	vinculin [Source:HGNC Symbol;Acc:HGNC:12665]	5524	0.5	0.03	14.69	7.24E-49	2.43E-46
ENSG00000034152	MAP2K3	mitogen-activated protein kinase kinase 3 [Source:HGNC Symbol;Acc:HGNC:6843]	1106	0.5	0.06	8.28	1.19E-16	5.40E-15
ENSG00000150907	FOXO1	forkhead box O1 [Source:HGNC Symbol;Acc:HGNC:3819]	139	0.5	0.16	3.15	0.0016189	0.0095518
ENSG00000090932	DLL3	delta like canonical Notch ligand 3 [Source:HGNC Symbol;Acc:HGNC:2909]	258	0.5	0.14	3.77	1.66E-04	0.0013355
ENSG00000120217	CD274	CD274 molecule [Source:HGNC Symbol;Acc:HGNC:17635]	413	0.5	0.10	4.96	7.00E-07	9.48E-06
ENSG00000163638	ADAMT59	ADAM metalloproteinase with thrombospondin type 1 motif 9 [Source:HGNC Symbol;Acc:HGNC:13202]	1991	0.5	0.05	10.61	2.60E-26	2.42E-24
ENSG00000100504	PYGL	glycogen phosphorylase L [Source:HGNC Symbol;Acc:HGNC:9725]	4562	0.5	0.04	14.01	1.33E-44	3.63E-42
ENSG00000164823	OSGIN2	oxidative stress induced growth inhibitor family member 2 [Source:HGNC Symbol;Acc:HGNC:1355]	1088	0.5	0.07	7.74	1.03E-14	3.75E-13
ENSG00000127920	GNG11	G protein subunit gamma 11 [Source:HGNC Symbol;Acc:HGNC:4403]	527	0.5	0.09	5.98	2.20E-09	4.52E-08
ENSG00000154917	RAB6B	RAB6B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:14902]	415	0.5	0.10	5.37	7.90E-08	1.26E-06
ENSG00000236751	LINC01186	long intergenic non-protein coding RNA 1186 [Source:HGNC Symbol;Acc:HGNC:49573]	93	0.5	0.19	2.68	0.0073366	0.0333501
ENSG00000142875	PRKACB	protein kinase cAMP-activated catalytic subunit beta [Source:HGNC Symbol;Acc:HGNC:9381]	535	0.5	0.09	6.05	1.48E-09	3.09E-08
ENSG00000157227	MMP14	matrix metalloproteinase 14 [Source:HGNC Symbol;Acc:HGNC:7160]	2947	0.5	0.05	10.98	4.83E-28	5.03E-26
ENSG00000251136	ENSG00000251136	novel transcript	351	0.5	0.11	4.89	1.01E-06	1.33E-05

ENSG00000186481	ANKRD20A5P	ankyrin repeat domain 20 family member A5, pseudogene [Source:HGNC Symbol;Acc:HGNC:33833]	147	0.5	0.15	3.38	7.18E-04	0.0047774
ENSG00000152127	MGAT5	alpha-1,6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase [Source:HGNC Symbol;Acc:HGNC:1299]	1299	0.5	0.06	8.19	2.71E-16	1.17E-14
ENSG00000155760	FZD7	frizzled class receptor 7 [Source:HGNC Symbol;Acc:HGNC:4045]	910	0.5	0.07	7.44	9.90E-14	3.35E-12
ENSG00000137449	CPEB2	cytoplasmic polyadenylation element binding protein 2 [Source:HGNC Symbol;Acc:HGNC:21745]	300	0.5	0.12	4.50	6.87E-06	7.75E-05
ENSG00000167657	DAPK3	death associated protein kinase 3 [Source:HGNC Symbol;Acc:HGNC:2676]	1648	0.5	0.06	8.81	1.29E-18	6.84E-17
ENSG00000162105	SHANK2	SH3 and multiple ankyrin repeat domains 2 [Source:HGNC Symbol;Acc:HGNC:14295]	444	0.5	0.09	5.83	5.55E-09	1.07E-07
ENSG00000147119	CHST7	carbohydrate sulfotransferase 7 [Source:HGNC Symbol;Acc:HGNC:13817]	231	0.5	0.15	3.40	6.83E-04	0.0045767
ENSG00000101665	SMAD7	SMAD family member 7 [Source:HGNC Symbol;Acc:HGNC:6773]	1005	0.5	0.07	7.92	2.31E-15	9.17E-14
ENSG00000232759	ENSG00000232759	novel transcript, antisense to STEAP1B	208	0.5	0.13	3.97	7.22E-05	6.42E-04
ENSG00000213949	ITGA1	integrin subunit alpha 1 [Source:HGNC Symbol;Acc:HGNC:6134]	997	0.5	0.06	8.10	5.35E-16	2.28E-14
ENSG00000105339	DENND3	DENN domain containing 3 [Source:HGNC Symbol;Acc:HGNC:29134]	889	0.5	0.08	6.61	3.93E-11	1.02E-09
ENSG00000106031	HOXA13	homeobox A13 [Source:HGNC Symbol;Acc:HGNC:5102]	105	0.5	0.19	2.85	0.0043524	0.0218488
ENSG00000275993	SIK1B	salt inducible kinase 1B (putative) [Source:HGNC Symbol;Acc:HGNC:52389]	337	0.5	0.11	4.79	1.71E-06	2.17E-05
ENSG00000073008	PVR	PVR cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:9705]	5951	0.5	0.04	14.59	3.10E-48	9.62E-46
ENSG00000128683	GAD1	glutamate decarboxylase 1 [Source:HGNC Symbol;Acc:HGNC:4092]	289	0.5	0.11	4.75	2.05E-06	2.56E-05
ENSG00000138448	ITGAV	integrin subunit alpha V [Source:HGNC Symbol;Acc:HGNC:6150]	7907	0.5	0.04	14.46	2.26E-47	6.62E-45
ENSG00000154127	UBASH3B	ubiquitin associated and SH3 domain containing B [Source:HGNC Symbol;Acc:HGNC:29884]	257	0.5	0.12	4.46	8.26E-06	9.15E-05
ENSG00000164125	GASK1B	golgi associated kinase 1B [Source:HGNC Symbol;Acc:HGNC:25312]	999	0.5	0.08	6.88	5.98E-12	1.71E-10
ENSG00000196924	FLNA	filamin A [Source:HGNC Symbol;Acc:HGNC:3754]	39812	0.5	0.03	16.97	1.48E-64	8.85E-62
ENSG00000105329	TGFB1	transforming growth factor beta 1 [Source:HGNC Symbol;Acc:HGNC:11766]	1363	0.5	0.06	8.93	4.13E-19	2.23E-17
ENSG00000126603	GLIS2	GLIS family zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:29450]	95	0.5	0.21	2.59	0.0096834	0.041869
ENSG00000197860	SGTB	small glutamine rich tetratricopeptide repeat containing beta [Source:HGNC Symbol;Acc:HGNC:23567]	129	0.5	0.16	3.31	9.17E-04	0.0058957
ENSG00000124788	ATXN1	ataxin 1 [Source:HGNC Symbol;Acc:HGNC:10548]	1733	0.5	0.05	10.27	9.35E-25	7.61E-23
ENSG00000144959	NCEH1	neutral cholesterol ester hydrolase 1 [Source:HGNC Symbol;Acc:HGNC:29260]	1167	0.5	0.06	8.96	3.13E-19	1.72E-17
ENSG00000112893	MAN2A1	mannosidase alpha class 2A member 1 [Source:HGNC Symbol;Acc:HGNC:6824]	2010	0.5	0.06	8.64	5.65E-18	2.81E-16
ENSG00000134352	IL6ST	interleukin 6 signal transducer [Source:HGNC Symbol;Acc:HGNC:6021]	1906	0.5	0.06	8.84	9.55E-19	5.11E-17
ENSG00000248383	PCDHAC1	protocadherin alpha subfamily C, 1 [Source:HGNC Symbol;Acc:HGNC:8676]	88	0.5	0.20	2.71	0.0068024	0.0313999
ENSG00000185760	KCNQ5	potassium voltage-gated channel subfamily Q member 5 [Source:HGNC Symbol;Acc:HGNC:6299]	115	0.5	0.18	2.98	0.0028785	0.0155911
ENSG00000117143	UAP1	UDP-N-acetylglucosamine pyrophosphorylase 1 [Source:HGNC Symbol;Acc:HGNC:12457]	1853	0.5	0.05	10.68	1.29E-26	1.22E-24
ENSG00000102908	NFAT5	nuclear factor of activated T cells 5 [Source:HGNC Symbol;Acc:HGNC:7774]	1213	0.5	0.07	7.91	2.58E-15	1.02E-13
ENSG00000158825	CDA	cytidine deaminase [Source:HGNC Symbol;Acc:HGNC:1712]	1005	0.5	0.07	8.24	1.71E-16	7.60E-15
ENSG00000229689	ENSG00000229689	Ankyrin repeat domain-containing protein pseudogene	143	0.5	0.16	3.46	5.35E-04	0.003716
ENSG00000196639	HRH1	histamine receptor H1 [Source:HGNC Symbol;Acc:HGNC:5182]	159	0.5	0.15	3.68	2.31E-04	0.0017832
ENSG00000090924	PLEKHG2	pleckstrin homology and RhoGEF domain containing G2 [Source:HGNC Symbol;Acc:HGNC:29515]	864	0.5	0.07	8.04	8.80E-16	3.67E-14
ENSG00000148484	RSU1	Ras suppressor protein 1 [Source:HGNC Symbol;Acc:HGNC:10464]	1058	0.5	0.07	8.22	2.11E-16	9.26E-15
ENSG00000146232	NFKBIE	NFKB inhibitor epsilon [Source:HGNC Symbol;Acc:HGNC:7799]	252	0.5	0.14	3.87	1.09E-04	9.20E-04
ENSG00000070190	DAPP1	dual adaptor of phosphotyrosine and 3-phosphoinositides 1 [Source:HGNC Symbol;Acc:HGNC:16500]	1537	0.5	0.05	10.30	6.92E-25	5.69E-23
ENSG00000063587	ZNF275	zinc finger protein 275 [Source:HGNC Symbol;Acc:HGNC:13069]	104	0.5	0.19	2.96	0.0030946	0.016506
ENSG00000225206	MIR137HG	MIR137 host gene [Source:HGNC Symbol;Acc:HGNC:42871]	179	0.5	0.15	3.75	1.80E-04	0.0014318
ENSG00000196754	S100A2	S100 calcium binding protein A2 [Source:HGNC Symbol;Acc:HGNC:10492]	980	0.6	0.08	7.19	6.26E-13	1.95E-11
ENSG00000133477	FAM83F	family with sequence similarity 83 member F [Source:HGNC Symbol;Acc:HGNC:25148]	101	0.6	0.20	2.73	0.0062634	0.0293234
ENSG00000261786	ENSG00000261786	novel transcript	160	0.6	0.15	3.57	3.53E-04	0.0025722

ENSG00000268119	ENSG00000268119	novel transcript	149	0.6	0.15	3.61	3.08E-04	0.0022881
ENSG00000166105	GLB1L3	galactosidase beta 1 like 3 [Source:HGNC Symbol;Acc:HGNC:25147]	390	0.6	0.10	5.37	7.84E-08	1.26E-06
ENSG00000151623	NR3C2	nuclear receptor subfamily 3 group C member 2 [Source:HGNC Symbol;Acc:HGNC:7979]	132	0.6	0.16	3.40	6.84E-04	0.00458
ENSG00000127603	MACF1	microtubule actin crosslinking factor 1 [Source:HGNC Symbol;Acc:HGNC:13664]	6389	0.6	0.04	13.57	6.39E-42	1.37E-39
ENSG00000229544	NKX1-2	NK1 homeobox 2 [Source:HGNC Symbol;Acc:HGNC:31652]	268	0.6	0.12	4.53	6.03E-06	6.90E-05
ENSG00000073060	SCARB1	scavenger receptor class B member 1 [Source:HGNC Symbol;Acc:HGNC:1664]	848	0.6	0.08	7.02	2.20E-12	6.49E-11
ENSG00000118495	PLAGL1	PLAG1 like zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:9046]	555	0.6	0.09	6.43	1.25E-10	3.03E-09
ENSG00000153233	PTPRR	protein tyrosine phosphatase receptor type R [Source:HGNC Symbol;Acc:HGNC:9680]	86	0.6	0.21	2.69	0.0072374	0.0329735
ENSG00000113742	CPEB4	cytoplasmic polyadenylation element binding protein 4 [Source:HGNC Symbol;Acc:HGNC:21747]	1154	0.6	0.07	8.21	2.20E-16	9.64E-15
ENSG00000224078	SNHG14	small nucleolar RNA host gene 14 [Source:HGNC Symbol;Acc:HGNC:37462]	2182	0.6	0.05	11.97	5.22E-33	6.90E-31
ENSG00000128849	CGNL1	cingulin like 1 [Source:HGNC Symbol;Acc:HGNC:25931]	168	0.6	0.15	3.66	2.55E-04	0.0019396
ENSG00000107105	ELAVL2	ELAV like RNA binding protein 2 [Source:HGNC Symbol;Acc:HGNC:3313]	681	0.6	0.08	6.77	1.28E-11	3.53E-10
ENSG00000070404	FSTL3	folliculin like 3 [Source:HGNC Symbol;Acc:HGNC:3973]	3210	0.6	0.04	13.56	7.21E-42	1.53E-39
ENSG00000179292	TMEM151A	transmembrane protein 151A [Source:HGNC Symbol;Acc:HGNC:28497]	201	0.6	0.14	4.02	5.71E-05	5.22E-04
ENSG00000137331	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:HGNC:5392]	297	0.6	0.12	4.71	2.43E-06	2.99E-05
ENSG00000234840	LINC01239	long intergenic non-protein coding RNA 1239 [Source:HGNC Symbol;Acc:HGNC:49796]	97	0.6	0.19	3.00	0.0027343	0.0149202
ENSG00000147224	PRPS1	phosphoribosyl pyrophosphate synthetase 1 [Source:HGNC Symbol;Acc:HGNC:9462]	2187	0.6	0.05	11.83	2.71E-32	3.31E-30
ENSG00000184009	ACTG1	actin gamma 1 [Source:HGNC Symbol;Acc:HGNC:144]	72267	0.6	0.03	17.93	6.37E-72	3.95E-69
ENSG00000155980	KIF5A	kinesin family member 5A [Source:HGNC Symbol;Acc:HGNC:6323]	230	0.6	0.16	3.63	2.87E-04	0.0021491
ENSG00000251003	ZFPM2-AS1	ZFPM2 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:50698]	156	0.6	0.15	3.71	2.07E-04	0.0016139
ENSG00000158163	DZIP1L	DAZ interacting zinc finger protein 1 like [Source:HGNC Symbol;Acc:HGNC:26551]	108	0.6	0.18	3.19	0.0014012	0.0084341
ENSG00000106070	GRB10	growth factor receptor bound protein 10 [Source:HGNC Symbol;Acc:HGNC:4564]	116	0.6	0.18	3.13	0.0017325	0.0101091
ENSG00000072110	ACTN1	actinin alpha 1 [Source:HGNC Symbol;Acc:HGNC:163]	10343	0.6	0.05	12.63	1.41E-36	2.18E-34
ENSG00000164086	DUSP7	dual specificity phosphatase 7 [Source:HGNC Symbol;Acc:HGNC:3073]	630	0.6	0.08	7.28	3.26E-13	1.07E-11
ENSG00000138311	ZNF365	zinc finger protein 365 [Source:HGNC Symbol;Acc:HGNC:18194]	162	0.6	0.16	3.71	2.08E-04	0.0016264
ENSG00000119771	KLHL29	kelch like family member 29 [Source:HGNC Symbol;Acc:HGNC:29404]	154	0.6	0.15	3.87	1.11E-04	9.35E-04
ENSG00000156113	KCNMA1	potassium calcium-activated channel subfamily M alpha 1 [Source:HGNC Symbol;Acc:HGNC:6284]	1274	0.6	0.06	9.64	5.61E-22	3.90E-20
ENSG00000213763	ACTBP2	ACTB pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:135]	99	0.6	0.19	2.99	0.0027869	0.0151608
ENSG00000203668	CHML	CHM like Rab escort protein [Source:HGNC Symbol;Acc:HGNC:1941]	2194	0.6	0.05	10.77	4.97E-27	4.82E-25
ENSG00000125257	ABCC4	ATP binding cassette subfamily C member 4 [Source:HGNC Symbol;Acc:HGNC:55]	198	0.6	0.16	3.63	2.82E-04	0.0021157
ENSG00000153814	JAZF1	JAZF zinc finger 1 [Source:HGNC Symbol;Acc:HGNC:28917]	183	0.6	0.15	3.91	9.27E-05	8.03E-04
ENSG00000275216	ENSG00000275216	novel transcript	1996	0.6	0.05	12.01	3.34E-33	4.45E-31
ENSG00000151715	TMEM45B	transmembrane protein 45B [Source:HGNC Symbol;Acc:HGNC:25194]	81	0.6	0.21	2.76	0.0057311	0.0272666
ENSG00000278709	NKILA	NF-kappaB interacting lncRNA [Source:HGNC Symbol;Acc:HGNC:51599]	198	0.6	0.13	4.42	9.80E-06	1.07E-04
ENSG00000157404	KIT	KIT proto-oncogene, receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:6342]	882	0.6	0.07	8.49	2.09E-17	9.99E-16
ENSG00000073712	FERMT2	fermitin family member 2 [Source:HGNC Symbol;Acc:HGNC:15767]	2733	0.6	0.04	13.23	5.53E-40	1.02E-37
ENSG00000101096	NFATC2	nuclear factor of activated T cells 2 [Source:HGNC Symbol;Acc:HGNC:7776]	1436	0.6	0.06	9.40	5.63E-21	3.58E-19
ENSG00000148468	FAM171A1	family with sequence similarity 171 member A1 [Source:HGNC Symbol;Acc:HGNC:23522]	498	0.6	0.09	6.61	3.76E-11	9.81E-10
ENSG00000145901	TNIP1	TNFAIP3 interacting protein 1 [Source:HGNC Symbol;Acc:HGNC:16903]	2228	0.6	0.05	11.63	2.82E-31	3.32E-29
ENSG00000198838	RYR3	ryanodine receptor 3 [Source:HGNC Symbol;Acc:HGNC:10485]	67	0.6	0.23	2.61	0.0089782	0.0395515
ENSG00000212907	MT-ND4L	mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 4L [Source:HGNC Symbol;Acc:HGNC:11616]	9064	0.6	0.19	3.14	0.0016854	0.0098754
ENSG00000172465	TCEAL1	transcription elongation factor A like 1 [Source:HGNC Symbol;Acc:HGNC:11616]	287	0.6	0.11	5.34	9.45E-08	1.49E-06

ENSG00000173391	OLR1	oxidized low density lipoprotein receptor 1 [Source:HGNC Symbol;Acc:HGNC:8133]	1770	0.6	0.06	10.37	3.31E-25	2.79E-23
ENSG00000153531	ADPRHL1	ADP-ribosylhydrolase like 1 [Source:HGNC Symbol;Acc:HGNC:21303]	394	0.6	0.10	5.97	2.36E-09	4.79E-08
ENSG00000173227	SYT12	synaptotagmin 12 [Source:HGNC Symbol;Acc:HGNC:18381]	88	0.6	0.21	2.85	0.0044337	0.0221877
ENSG00000155918	RAET1L	retinoic acid early transcript 1L [Source:HGNC Symbol;Acc:HGNC:16798]	75	0.6	0.21	2.78	0.0054626	0.0261826
ENSG00000162444	RBP7	retinol binding protein 7 [Source:HGNC Symbol;Acc:HGNC:30316]	1089	0.6	0.07	8.45	3.03E-17	1.42E-15
ENSG00000132334	PTPRE	protein tyrosine phosphatase receptor type E [Source:HGNC Symbol;Acc:HGNC:9669]	395	0.6	0.10	6.04	1.50E-09	3.12E-08
ENSG00000039560	RAI14	retinoic acid induced 14 [Source:HGNC Symbol;Acc:HGNC:14873]	290	0.6	0.11	5.32	1.06E-07	1.67E-06
ENSG00000197763	TXNRD3	thioredoxin reductase 3 [Source:HGNC Symbol;Acc:HGNC:20667]	243	0.6	0.13	4.74	2.10E-06	2.62E-05
ENSG00000196739	COL27A1	collagen type XXVII alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:22986]	131	0.6	0.17	3.53	4.21E-04	0.0030164
ENSG00000177606	JUN	Jun proto-oncogene, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:6204]	4291	0.6	0.05	11.84	2.44E-32	3.00E-30
ENSG00000228649	SNHG26	small nucleolar RNA host gene 26 [Source:HGNC Symbol;Acc:HGNC:53131]	237	0.6	0.13	4.76	1.96E-06	2.46E-05
ENSG00000248323	LUCAT1	lung cancer associated transcript 1 [Source:HGNC Symbol;Acc:HGNC:48498]	179	0.6	0.14	4.32	1.53E-05	1.59E-04
ENSG00000163545	NUAK2	NUAK family kinase 2 [Source:HGNC Symbol;Acc:HGNC:29558]	502	0.6	0.10	6.37	1.93E-10	4.59E-09
ENSG00000087128	TMPRSS11E	transmembrane serine protease 11E [Source:HGNC Symbol;Acc:HGNC:24465]	611	0.6	0.08	7.40	1.39E-13	4.68E-12
ENSG00000100121	GGTLC2	gamma-glutamyltransferase light chain 2 [Source:HGNC Symbol;Acc:HGNC:18596]	67	0.6	0.23	2.62	0.0088565	0.0391549
ENSG00000069188	SDK2	sidekick cell adhesion molecule 2 [Source:HGNC Symbol;Acc:HGNC:19308]	103	0.6	0.18	3.35	7.97E-04	0.0052357
ENSG00000198833	UBE2J1	ubiquitin conjugating enzyme E2 J1 [Source:HGNC Symbol;Acc:HGNC:17598]	4095	0.6	0.04	15.50	3.48E-54	1.37E-51
ENSG00000172403	SYNPO2	synaptopodin 2 [Source:HGNC Symbol;Acc:HGNC:17732]	322	0.6	0.11	5.51	3.54E-08	5.95E-07
ENSG00000148841	ITPRIP	inositol 1,4,5-trisphosphate receptor interacting protein [Source:HGNC Symbol;Acc:HGNC:29370]	132	0.6	0.16	3.77	1.65E-04	0.0013274
ENSG00000171488	LRRRC8C	leucine rich repeat containing 8 VRAC subunit C [Source:HGNC Symbol;Acc:HGNC:25075]	113	0.6	0.18	3.47	5.12E-04	0.0035763
ENSG00000148483	TMEM236	transmembrane protein 236 [Source:HGNC Symbol;Acc:HGNC:23473]	217	0.6	0.13	4.60	4.18E-06	4.90E-05
ENSG00000152952	PLOD2	procollagen-lysine,2-oxoglutarate 5-dioxygenase 2 [Source:HGNC Symbol;Acc:HGNC:9082]	2797	0.6	0.04	13.86	1.10E-43	2.81E-41
ENSG00000122786	CALD1	caldesmon 1 [Source:HGNC Symbol;Acc:HGNC:1441]	8013	0.6	0.03	18.15	1.31E-73	8.77E-71
ENSG00000130962	PRRG1	proline rich and Gla domain 1 [Source:HGNC Symbol;Acc:HGNC:9469]	393	0.6	0.10	6.35	2.16E-10	5.07E-09
ENSG00000138685	FGF2	fibroblast growth factor 2 [Source:HGNC Symbol;Acc:HGNC:3676]	634	0.6	0.08	7.76	8.25E-15	3.08E-13
ENSG00000187957	DNER	delta/notch like EGF repeat containing [Source:HGNC Symbol;Acc:HGNC:24456]	333	0.6	0.11	5.72	1.05E-08	1.94E-07
ENSG00000047634	SCML1	Scm polycomb group protein like 1 [Source:HGNC Symbol;Acc:HGNC:10580]	89	0.6	0.21	2.98	0.0028379	0.0153988
ENSG00000164619	BMPER	BMP binding endothelial regulator [Source:HGNC Symbol;Acc:HGNC:24154]	84	0.6	0.20	3.03	0.0024194	0.0134662
ENSG00000170390	DCLK2	doublecortin like kinase 2 [Source:HGNC Symbol;Acc:HGNC:19002]	395	0.6	0.10	6.18	6.56E-10	1.44E-08
ENSG00000137941	TTL7	tubulin tyrosine ligase like 7 [Source:HGNC Symbol;Acc:HGNC:26242]	332	0.6	0.11	5.64	1.72E-08	3.07E-07
ENSG00000175602	CCDC85B	coiled-coil domain containing 85B [Source:HGNC Symbol;Acc:HGNC:24926]	2255	0.6	0.18	3.35	8.00E-04	0.0052502
ENSG00000237515	SHISA9	shisa family member 9 [Source:HGNC Symbol;Acc:HGNC:37231]	429	0.6	0.10	6.31	2.70E-10	6.22E-09
ENSG00000031081	ARHGAP31	Rho GTPase activating protein 31 [Source:HGNC Symbol;Acc:HGNC:29216]	325	0.6	0.11	5.49	4.00E-08	6.67E-07
ENSG00000145012	LPP	LIM domain containing preferred translocation partner in lipoma [Source:HGNC Symbol;Acc:HGNC:6679]	1304	0.6	0.06	10.49	9.45E-26	8.42E-24
ENSG00000171951	SCG2	secretogranin II [Source:HGNC Symbol;Acc:HGNC:10575]	110	0.6	0.18	3.41	6.40E-04	0.004334
ENSG00000136052	SLC41A2	solute carrier family 41 member 2 [Source:HGNC Symbol;Acc:HGNC:31045]	323	0.6	0.11	5.73	9.75E-09	1.82E-07
ENSG00000117525	F3	coagulation factor III, tissue factor [Source:HGNC Symbol;Acc:HGNC:3541]	3091	0.6	0.04	15.11	1.48E-51	5.20E-49
ENSG00000062582	MRPS24	mitochondrial ribosomal protein S24 [Source:HGNC Symbol;Acc:HGNC:14510]	114	0.6	0.18	3.59	3.29E-04	0.0024233
ENSG00000099250	NRP1	neuropilin 1 [Source:HGNC Symbol;Acc:HGNC:8004]	220	0.6	0.13	4.73	2.27E-06	2.82E-05
ENSG00000104219	ZDHHC2	zinc finger DHHC-type palmitoyltransferase 2 [Source:HGNC Symbol;Acc:HGNC:18469]	214	0.6	0.13	4.69	2.70E-06	3.29E-05
ENSG00000135631	RAB11FIP5	RAB11 family interacting protein 5 [Source:HGNC Symbol;Acc:HGNC:24845]	1477	0.6	0.06	11.31	1.12E-29	1.25E-27
ENSG00000137142	IGFBPL1	insulin like growth factor binding protein like 1 [Source:HGNC Symbol;Acc:HGNC:20081]	152	0.6	0.16	4.05	5.12E-05	4.74E-04

ENSG00000137285	TUBB2B	tubulin beta 2B class IIb [Source:HGNC Symbol;Acc:HGNC:30829]	740	0.6	0.09	7.37	1.72E-13	5.73E-12
ENSG00000084731	KIF3C	kinesin family member 3C [Source:HGNC Symbol;Acc:HGNC:6321]	349	0.6	0.11	5.66	1.48E-08	2.67E-07
ENSG00000213694	S1PR3	sphingosine-1-phosphate receptor 3 [Source:HGNC Symbol;Acc:HGNC:3167]	583	0.6	0.08	7.46	8.83E-14	3.02E-12
ENSG00000131015	ULBP2	UL16 binding protein 2 [Source:HGNC Symbol;Acc:HGNC:14894]	307	0.6	0.11	5.61	2.08E-08	3.67E-07
ENSG00000249279	LINC02057	long intergenic non-protein coding RNA 2057 [Source:HGNC Symbol;Acc:HGNC:52900]	88	0.6	0.20	3.15	0.0016143	0.0095279
ENSG00000106701	FSD1L	fibronectin type III and SPRY domain containing 1 like [Source:HGNC Symbol;Acc:HGNC:13753]	85	0.6	0.20	3.12	0.0017884	0.0104108
ENSG00000197385	ZNF860	zinc finger protein 860 [Source:HGNC Symbol;Acc:HGNC:34513]	141	0.6	0.17	3.76	1.68E-04	0.0013429
ENSG00000006652	IFRD1	interferon related developmental regulator 1 [Source:HGNC Symbol;Acc:HGNC:5456]	2541	0.6	0.05	13.68	1.33E-42	3.03E-40
ENSG00000100558	PLEK2	pleckstrin 2 [Source:HGNC Symbol;Acc:HGNC:19238]	356	0.6	0.12	5.28	1.28E-07	1.98E-06
ENSG00000232533	ENSG00000232533	novel transcript	147	0.6	0.16	4.12	3.73E-05	3.59E-04
ENSG0000029153	ARNTL2	aryl hydrocarbon receptor nuclear translocator like 2 [Source:HGNC Symbol;Acc:HGNC:18984]	1696	0.6	0.06	11.67	1.84E-31	2.22E-29
ENSG00000151014	NOCT	nocturnin [Source:HGNC Symbol;Acc:HGNC:14254]	667	0.6	0.08	7.79	6.53E-15	2.46E-13
ENSG00000071282	LMCD1	LIM and cysteine rich domains 1 [Source:HGNC Symbol;Acc:HGNC:6633]	275	0.6	0.12	5.59	2.28E-08	3.98E-07
ENSG00000180914	OXTR	oxytocin receptor [Source:HGNC Symbol;Acc:HGNC:8529]	1643	0.6	0.05	12.30	9.15E-35	1.29E-32
ENSG00000246859	STAR4-AS1	STAR4 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:44117]	79	0.6	0.22	3.01	0.0026527	0.014534
ENSG00000143322	ABL2	ABL proto-oncogene 2, non-receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:77]	1812	0.7	0.05	12.72	4.29E-37	6.79E-35
ENSG00000119699	TGFB3	transforming growth factor beta 3 [Source:HGNC Symbol;Acc:HGNC:11769]	138	0.7	0.16	4.11	3.92E-05	3.73E-04
ENSG00000197614	MFAP5	microfibril associated protein 5 [Source:HGNC Symbol;Acc:HGNC:29673]	1379	0.7	0.06	11.09	1.45E-28	1.56E-26
ENSG00000087303	NID2	nidogen 2 [Source:HGNC Symbol;Acc:HGNC:13389]	154	0.7	0.16	4.18	2.96E-05	2.91E-04
ENSG00000136999	CCN3	cellular communication network factor 3 [Source:HGNC Symbol;Acc:HGNC:7885]	114	0.7	0.18	3.72	2.01E-04	0.001574
ENSG00000228742	LINC02577	long intergenic non-protein coding RNA 2577 [Source:HGNC Symbol;Acc:HGNC:53749]	72	0.7	0.25	2.63	0.0084497	0.0375832
ENSG00000183496	MEX3B	mex-3 RNA binding family member B [Source:HGNC Symbol;Acc:HGNC:25297]	112	0.7	0.18	3.64	2.77E-04	0.002088
ENSG00000127418	FGFRL1	fibroblast growth factor receptor like 1 [Source:HGNC Symbol;Acc:HGNC:3693]	265	0.7	0.12	5.70	1.20E-08	2.20E-07
ENSG00000145375	SPATA5	spermatogenesis associated 5 [Source:HGNC Symbol;Acc:HGNC:18119]	369	0.7	0.10	6.59	4.36E-11	1.12E-09
ENSG00000142920	AZIN2	antizyme inhibitor 2 [Source:HGNC Symbol;Acc:HGNC:29957]	84	0.7	0.21	3.24	0.0012115	0.0074736
ENSG00000134775	FHOD3	formin homology 2 domain containing 3 [Source:HGNC Symbol;Acc:HGNC:26178]	103	0.7	0.20	3.40	6.84E-04	0.00458
ENSG00000115419	GLS	glutaminase [Source:HGNC Symbol;Acc:HGNC:4331]	5661	0.7	0.04	15.37	2.67E-53	1.00E-50
ENSG00000101197	BIRC7	baculoviral IAP repeat containing 7 [Source:HGNC Symbol;Acc:HGNC:13702]	124	0.7	0.18	3.70	2.19E-04	0.0016974
ENSG00000164176	EDIL3	EGF like repeats and discoidin domains 3 [Source:HGNC Symbol;Acc:HGNC:3173]	681	0.7	0.08	8.75	2.11E-18	1.09E-16
ENSG00000132031	MATN3	matrilin 3 [Source:HGNC Symbol;Acc:HGNC:6909]	116	0.7	0.17	3.86	1.13E-04	9.48E-04
ENSG00000163659	TIPARP	TCDD inducible poly(ADP-ribose) polymerase [Source:HGNC Symbol;Acc:HGNC:23696]	1423	0.7	0.06	11.62	3.38E-31	3.95E-29
ENSG00000144645	OSBPL10	oxysterol binding protein like 10 [Source:HGNC Symbol;Acc:HGNC:16395]	971	0.7	0.07	9.74	2.05E-22	1.45E-20
ENSG00000114251	WNT5A	Wnt family member 5A [Source:HGNC Symbol;Acc:HGNC:12784]	214	0.7	0.14	5.00	5.81E-07	7.96E-06
ENSG00000240891	PLCXD2	phosphatidylinositol specific phospholipase C X domain containing 2 [Source:HGNC Symbol;Acc:HGNC:2644]	263	0.7	0.12	5.55	2.90E-08	4.97E-07
ENSG00000116717	GADD45A	growth arrest and DNA damage inducible alpha [Source:HGNC Symbol;Acc:HGNC:4095]	3546	0.7	0.06	11.65	2.31E-31	2.74E-29
ENSG00000087085	ACHE	acetylcholinesterase (Cartwright blood group) [Source:HGNC Symbol;Acc:HGNC:108]	355	0.7	0.11	6.35	2.19E-10	5.13E-09
ENSG00000176171	BNIP3	BCL2 interacting protein 3 [Source:HGNC Symbol;Acc:HGNC:1084]	2086	0.7	0.06	12.26	1.57E-34	2.20E-32
ENSG00000122547	EEDP1	endonuclease/exonuclease/phosphatase family domain containing 1 [Source:HGNC Symbol;Acc:HGNC:222]	69	0.7	0.23	2.92	0.0035322	0.0183665
ENSG00000187699	C2orf88	chromosome 2 open reading frame 88 [Source:HGNC Symbol;Acc:HGNC:28191]	55	0.7	0.25	2.68	0.007431	0.0337219
ENSG00000163637	PRICKLE2	prickle planar cell polarity protein 2 [Source:HGNC Symbol;Acc:HGNC:20340]	172	0.7	0.14	4.77	1.83E-06	2.31E-05
ENSG00000105926	MPP6	membrane palmitoylated protein 6 [Source:HGNC Symbol;Acc:HGNC:18167]	375	0.7	0.12	5.90	3.66E-09	7.26E-08
ENSG00000104312	RIPK2	receptor interacting serine/threonine kinase 2 [Source:HGNC Symbol;Acc:HGNC:10020]	1249	0.7	0.06	11.02	2.98E-28	3.14E-26

ENSG00000100290	BIK	BCL2 interacting killer [Source:HGNC Symbol;Acc:HGNC:1051]	301	0.7	0.12	5.95	2.76E-09	5.56E-08
ENSG00000134070	IRAK2	interleukin 1 receptor associated kinase 2 [Source:HGNC Symbol;Acc:HGNC:6113]	163	0.7	0.15	4.68	2.90E-06	3.53E-05
ENSG00000100003	SEC14L2	SEC14 like lipid binding 2 [Source:HGNC Symbol;Acc:HGNC:10699]	329	0.7	0.10	6.57	4.99E-11	1.27E-09
ENSG00000122707	RECK	reversion inducing cysteine rich protein with kazal motifs [Source:HGNC Symbol;Acc:HGNC:11345]	192	0.7	0.13	5.10	3.34E-07	4.79E-06
ENSG00000186832	KRT16	keratin 16 [Source:HGNC Symbol;Acc:HGNC:6423]	5189	0.7	0.05	13.54	9.48E-42	1.93E-39
ENSG00000156103	MMP16	matrix metalloproteinase 16 [Source:HGNC Symbol;Acc:HGNC:7162]	160	0.7	0.15	4.62	3.84E-06	4.55E-05
ENSG00000077274	CAPN6	calpain 6 [Source:HGNC Symbol;Acc:HGNC:1483]	190	0.7	0.14	5.04	4.56E-07	6.37E-06
ENSG00000156510	HKDC1	hexokinase domain containing 1 [Source:HGNC Symbol;Acc:HGNC:23302]	78	0.7	0.21	3.30	9.64E-04	0.0061456
ENSG00000116106	EPHA4	EPH receptor A4 [Source:HGNC Symbol;Acc:HGNC:3388]	636	0.7	0.08	8.97	2.96E-19	1.64E-17
ENSG00000105825	TFPI2	tissue factor pathway inhibitor 2 [Source:HGNC Symbol;Acc:HGNC:11761]	3486	0.7	0.05	14.53	8.14E-48	2.47E-45
ENSG00000151835	SACS	sacsin molecular chaperone [Source:HGNC Symbol;Acc:HGNC:10519]	259	0.7	0.12	5.77	7.79E-09	1.48E-07
ENSG00000124615	MOCS1	molybdenum cofactor synthesis 1 [Source:HGNC Symbol;Acc:HGNC:7190]	60	0.7	0.25	2.75	0.0060399	0.0284838
ENSG00000204291	COL15A1	collagen type XV alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2192]	185	0.7	0.14	5.07	3.88E-07	5.48E-06
ENSG00000058085	LAMC2	laminin subunit gamma 2 [Source:HGNC Symbol;Acc:HGNC:6493]	6496	0.7	0.04	19.63	9.15E-86	1.13E-82
ENSG00000135362	PRR5L	proline rich 5 like [Source:HGNC Symbol;Acc:HGNC:25878]	205	0.7	0.13	5.28	1.27E-07	1.98E-06
ENSG00000183691	NOG	noggin [Source:HGNC Symbol;Acc:HGNC:7866]	421	0.7	0.10	6.73	1.70E-11	4.62E-10
ENSG00000157613	CREB3L1	cAMP responsive element binding protein 3 like 1 [Source:HGNC Symbol;Acc:HGNC:18856]	70	0.7	0.23	3.04	0.0023388	0.0130716
ENSG00000263006	ROCK1P1	Rho associated coiled-coil containing protein kinase 1 pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:3783]	168	0.7	0.15	4.76	1.98E-06	2.48E-05
ENSG00000071909	MYO3B	myosin IIIB [Source:HGNC Symbol;Acc:HGNC:15576]	157	0.7	0.16	4.52	6.20E-06	7.07E-05
ENSG00000157551	KCNJ15	potassium inwardly rectifying channel subfamily J member 15 [Source:HGNC Symbol;Acc:HGNC:6261]	88	0.7	0.20	3.56	3.71E-04	0.0026966
ENSG00000073756	PTGS2	prostaglandin-endoperoxide synthase 2 [Source:HGNC Symbol;Acc:HGNC:9605]	713	0.7	0.08	8.94	3.85E-19	2.10E-17
ENSG00000171608	PIK3CD	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta [Source:HGNC Symbol;Acc:HGNC:89]	262	0.7	0.13	5.56	2.64E-08	4.55E-07
ENSG00000177283	FZD8	frizzled class receptor 8 [Source:HGNC Symbol;Acc:HGNC:4046]	80	0.7	0.22	3.17	0.0015389	0.0091536
ENSG00000185418	TARS3	threonyl-tRNA synthetase 3 [Source:HGNC Symbol;Acc:HGNC:24728]	309	0.7	0.12	6.15	7.90E-10	1.71E-08
ENSG00000125384	PTGER2	prostaglandin E receptor 2 [Source:HGNC Symbol;Acc:HGNC:9594]	210	0.7	0.13	5.43	5.77E-08	9.45E-07
ENSG00000131378	RFTN1	raftlin, lipid raft linker 1 [Source:HGNC Symbol;Acc:HGNC:30278]	102	0.7	0.18	3.88	1.04E-04	8.88E-04
ENSG00000131746	TNS4	tensin 4 [Source:HGNC Symbol;Acc:HGNC:24352]	310	0.7	0.11	6.52	6.95E-11	1.73E-09
ENSG00000282034	ENSG00000282034	novel transcript	51	0.7	0.27	2.69	0.0072485	0.0330145
ENSG00000270002	ENSG00000270002	novel transcript, antisense to GRID1	66	0.7	0.24	2.97	0.0029689	0.0159732
ENSG00000064886	CHI3L2	chitinase 3 like 2 [Source:HGNC Symbol;Acc:HGNC:1933]	87	0.7	0.21	3.46	5.46E-04	0.0037804
ENSG00000286134	ENSG00000286134	novel transcript	98	0.7	0.19	3.75	1.74E-04	0.0013864
ENSG00000110880	CORO1C	coronin 1C [Source:HGNC Symbol;Acc:HGNC:2254]	3974	0.7	0.04	18.06	6.28E-73	4.05E-70
ENSG00000107819	SFXN3	sideroflexin 3 [Source:HGNC Symbol;Acc:HGNC:16087]	2012	0.7	0.05	13.77	3.89E-43	9.35E-41
ENSG00000127124	HIVEP3	HIVEP zinc finger 3 [Source:HGNC Symbol;Acc:HGNC:13561]	92	0.7	0.20	3.67	2.40E-04	0.0018465
ENSG00000251322	SHANK3	SH3 and multiple ankyrin repeat domains 3 [Source:HGNC Symbol;Acc:HGNC:14294]	93	0.7	0.21	3.44	5.90E-04	0.0040503
ENSG00000120129	DUSP1	dual specificity phosphatase 1 [Source:HGNC Symbol;Acc:HGNC:3064]	2013	0.7	0.05	13.19	9.64E-40	1.77E-37
ENSG00000139973	SYT16	synaptotagmin 16 [Source:HGNC Symbol;Acc:HGNC:23142]	551	0.7	0.08	8.57	1.06E-17	5.16E-16
ENSG00000253824	ENSG00000253824	novel transcript	52	0.7	0.27	2.72	0.0065989	0.0306536
ENSG00000188620	HMX3	H6 family homeobox 3 [Source:HGNC Symbol;Acc:HGNC:5019]	271	0.7	0.11	6.32	2.57E-10	5.96E-09
ENSG00000101489	CELF4	CUGBP Elav-like family member 4 [Source:HGNC Symbol;Acc:HGNC:14015]	115	0.7	0.18	4.01	6.10E-05	5.53E-04
ENSG00000111424	VDR	vitamin D receptor [Source:HGNC Symbol;Acc:HGNC:12679]	1896	0.7	0.05	14.62	2.12E-48	6.84E-46
ENSG00000121297	TSHZ3	teashirt zinc finger homeobox 3 [Source:HGNC Symbol;Acc:HGNC:30700]	53	0.7	0.26	2.81	0.0049017	0.0240006

ENSG00000075340	ADD2	adducin 2 [Source:HGNC Symbol;Acc:HGNC:244]	360	0.7	0.11	6.96	3.47E-12	1.00E-10
ENSG00000152137	HSPB8	heat shock protein family B (small) member 8 [Source:HGNC Symbol;Acc:HGNC:30171]	1331	0.7	0.06	12.01	3.25E-33	4.37E-31
ENSG00000118508	RAB32	RAB32, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9772]	1228	0.7	0.07	10.89	1.27E-27	1.29E-25
ENSG00000169914	OTUD3	OTU deubiquitinase 3 [Source:HGNC Symbol;Acc:HGNC:29038]	682	0.7	0.08	9.80	1.12E-22	8.09E-21
ENSG00000163364	LINC01116	long intergenic non-protein coding RNA 1116 [Source:HGNC Symbol;Acc:HGNC:49259]	89	0.7	0.21	3.60	3.21E-04	0.0023748
ENSG00000086289	EPDR1	ependymin related 1 [Source:HGNC Symbol;Acc:HGNC:17572]	388	0.7	0.10	7.57	3.71E-14	1.30E-12
ENSG00000261115	TMEM178B	transmembrane protein 178B [Source:HGNC Symbol;Acc:HGNC:44112]	368	0.7	0.10	7.21	5.80E-13	1.82E-11
ENSG00000172817	CYP7B1	cytochrome P450 family 7 subfamily B member 1 [Source:HGNC Symbol;Acc:HGNC:2652]	429	0.7	0.10	7.82	5.49E-15	2.09E-13
ENSG00000162772	ATF3	activating transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:785]	1704	0.8	0.05	14.16	1.67E-45	4.80E-43
ENSG00000138131	LOXL4	lysyl oxidase like 4 [Source:HGNC Symbol;Acc:HGNC:17171]	108	0.8	0.19	4.00	6.29E-05	5.68E-04
ENSG00000260196	ENSG00000260196	antisense to KCNJ11 and overlapping to a novel gene	55	0.8	0.26	2.89	0.0038267	0.0195726
ENSG00000077150	NFKB2	nuclear factor kappa B subunit 2 [Source:HGNC Symbol;Acc:HGNC:7795]	4451	0.8	0.04	18.50	1.99E-76	1.46E-73
ENSG00000249992	TMEM158	transmembrane protein 158 [Source:HGNC Symbol;Acc:HGNC:30293]	430	0.8	0.10	7.30	2.79E-13	9.25E-12
ENSG00000253368	TRNP1	TMF1 regulated nuclear protein 1 [Source:HGNC Symbol;Acc:HGNC:34348]	299	0.8	0.12	6.21	5.14E-10	1.15E-08
ENSG00000164236	ANKRD33B	ankyrin repeat domain 33B [Source:HGNC Symbol;Acc:HGNC:35240]	291	0.8	0.12	6.61	3.92E-11	1.02E-09
ENSG00000145700	ANKRD31	ankyrin repeat domain 31 [Source:HGNC Symbol;Acc:HGNC:26853]	53	0.8	0.26	2.89	0.0038848	0.0198414
ENSG00000068366	ACSL4	acyl-CoA synthetase long chain family member 4 [Source:HGNC Symbol;Acc:HGNC:3571]	812	0.8	0.07	10.75	5.95E-27	5.71E-25
ENSG00000254510	ENSG00000254510	novel transcript	50	0.8	0.26	2.93	0.0034246	0.017876
ENSG00000137502	RAB30	RAB30, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9770]	210	0.8	0.13	5.72	1.07E-08	1.97E-07
ENSG00000163216	SPRR2D	small proline rich protein 2D [Source:HGNC Symbol;Acc:HGNC:11264]	103	0.8	0.19	4.11	3.91E-05	3.73E-04
ENSG00000101335	MYL9	myosin light chain 9 [Source:HGNC Symbol;Acc:HGNC:15754]	19087	0.8	0.03	22.31	3.09E-110	7.13E-107
ENSG00000087494	PTH1H	parathyroid hormone like hormone [Source:HGNC Symbol;Acc:HGNC:9607]	51	0.8	0.26	2.94	0.0032766	0.0172996
ENSG00000164647	STEAP1	STEAP family member 1 [Source:HGNC Symbol;Acc:HGNC:11378]	57	0.8	0.25	3.16	0.001574	0.0093208
ENSG00000101384	JAG1	jagged canonical Notch ligand 1 [Source:HGNC Symbol;Acc:HGNC:6188]	879	0.8	0.07	11.31	1.21E-29	1.34E-27
ENSG00000102924	CBLN1	cerebellin 1 precursor [Source:HGNC Symbol;Acc:HGNC:1543]	171	0.8	0.15	5.22	1.77E-07	2.67E-06
ENSG00000053747	LAMA3	laminin subunit alpha 3 [Source:HGNC Symbol;Acc:HGNC:6483]	6130	0.8	0.04	22.10	2.89E-108	5.82E-105
ENSG00000280435	ENSG00000280435	TEC	61	0.8	0.24	3.25	0.0011541	0.0071872
ENSG00000235885	LINC01828	long intergenic non-protein coding RNA 1828 [Source:HGNC Symbol;Acc:HGNC:52634]	74	0.8	0.24	3.22	0.0012825	0.0078397
ENSG00000178726	THBD	thrombomodulin [Source:HGNC Symbol;Acc:HGNC:11784]	714	0.8	0.08	10.29	8.03E-25	6.57E-23
ENSG00000125378	BMP4	bone morphogenetic protein 4 [Source:HGNC Symbol;Acc:HGNC:1071]	61	0.8	0.24	3.28	0.0010396	0.0065585
ENSG00000166741	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:HGNC:7861]	156	0.8	0.16	5.05	4.52E-07	6.32E-06
ENSG00000166147	FBN1	fibrillin 1 [Source:HGNC Symbol;Acc:HGNC:3603]	270	0.8	0.13	6.24	4.28E-10	9.64E-09
ENSG00000203711	C6orf99	chromosome 6 putative open reading frame 99 [Source:HGNC Symbol;Acc:HGNC:21179]	111	0.8	0.19	4.10	4.09E-05	3.88E-04
ENSG00000155465	SLC7A7	solute carrier family 7 member 7 [Source:HGNC Symbol;Acc:HGNC:11065]	288	0.8	0.12	6.48	9.11E-11	2.25E-09
ENSG00000117228	GBP1	guanylate binding protein 1 [Source:HGNC Symbol;Acc:HGNC:4182]	2295	0.8	0.05	16.60	6.54E-62	3.30E-59
ENSG00000113319	RASGRF2	Ras protein specific guanine nucleotide releasing factor 2 [Source:HGNC Symbol;Acc:HGNC:9876]	55	0.8	0.26	3.14	0.0017185	0.0100326
ENSG00000017483	SLC38A5	solute carrier family 38 member 5 [Source:HGNC Symbol;Acc:HGNC:18070]	36	0.8	0.31	2.60	0.0092925	0.0406253
ENSG00000159840	ZYX	zyxin [Source:HGNC Symbol;Acc:HGNC:13200]	2007	0.8	0.05	15.51	3.15E-54	1.27E-51
ENSG00000167191	GPRC5B	G protein-coupled receptor class C group 5 member B [Source:HGNC Symbol;Acc:HGNC:13308]	851	0.8	0.08	10.75	5.80E-27	5.60E-25
ENSG00000189410	SH2D5	SH2 domain containing 5 [Source:HGNC Symbol;Acc:HGNC:28819]	52	0.8	0.26	3.08	0.0020633	0.0117354
ENSG00000118985	ELL2	elongation factor for RNA polymerase II 2 [Source:HGNC Symbol;Acc:HGNC:17064]	973	0.8	0.08	9.62	6.84E-22	4.67E-20
ENSG00000139211	AMIGO2	adhesion molecule with Ig like domain 2 [Source:HGNC Symbol;Acc:HGNC:24073]	905	0.8	0.07	11.37	5.89E-30	6.68E-28

ENSG00000188211	NCR3LG1	natural killer cell cytotoxicity receptor 3 ligand 1 [Source:HGNC Symbol;Acc:HGNC:42400]	322	0.8	0.12	6.67	2.60E-11	6.96E-10
ENSG00000268941	LINC01711	long intergenic non-protein coding RNA 1711 [Source:HGNC Symbol;Acc:HGNC:28663]	61	0.8	0.25	3.32	8.96E-04	0.0057788
ENSG00000111186	WNT5B	Wnt family member 5B [Source:HGNC Symbol;Acc:HGNC:16265]	115	0.8	0.20	4.18	2.96E-05	2.91E-04
ENSG00000149591	TAGLN	transgelin [Source:HGNC Symbol;Acc:HGNC:11553]	489	0.8	0.09	9.36	8.30E-21	5.12E-19
ENSG00000196126	HLA-DRB1	major histocompatibility complex, class II, DR beta 1 [Source:HGNC Symbol;Acc:HGNC:4948]	61	0.8	0.30	2.74	0.0061861	0.0290386
ENSG00000133816	MICAL2	microtubule associated monooxygenase, calponin and LIM domain containing 2 [Source:HGNC Symbol;Acc:HGNC:14065]	610	0.8	0.08	10.01	1.31E-23	1.01E-21
ENSG00000048052	HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:HGNC:14065]	94	0.8	0.20	4.21	2.56E-05	2.55E-04
ENSG00000113196	HAND1	heart and neural crest derivatives expressed 1 [Source:HGNC Symbol;Acc:HGNC:4807]	35	0.8	0.32	2.60	0.0094152	0.0410284
ENSG00000169213	RAB3B	RAB3B, member RAS oncogene family [Source:HGNC Symbol;Acc:HGNC:9778]	272	0.8	0.13	6.52	6.92E-11	1.73E-09
ENSG00000127325	BEST3	bestrophin 3 [Source:HGNC Symbol;Acc:HGNC:17105]	38	0.8	0.30	2.75	0.0059723	0.0282392
ENSG00000162409	PRKAA2	protein kinase AMP-activated catalytic subunit alpha 2 [Source:HGNC Symbol;Acc:HGNC:9377]	129	0.8	0.17	4.92	8.49E-07	1.14E-05
ENSG00000134871	COL4A2	collagen type IV alpha 2 chain [Source:HGNC Symbol;Acc:HGNC:2203]	3225	0.8	0.04	19.35	2.13E-83	2.14E-80
ENSG00000131668	BARX1	BARX homeobox 1 [Source:HGNC Symbol;Acc:HGNC:955]	307	0.8	0.11	7.74	9.90E-15	3.63E-13
ENSG00000122694	GLIPR2	GLI pathogenesis related 2 [Source:HGNC Symbol;Acc:HGNC:18007]	155	0.8	0.16	5.33	9.92E-08	1.56E-06
ENSG00000275894	ENSG00000275894	novel transcript, sense intronic to SDC4	52	0.8	0.26	3.21	0.0013343	0.0081069
ENSG00000135766	EGLN1	egl-9 family hypoxia inducible factor 1 [Source:HGNC Symbol;Acc:HGNC:1232]	182	0.8	0.16	5.16	2.52E-07	3.69E-06
ENSG00000143153	ATP1B1	ATPase Na ⁺ /K ⁺ transporting subunit beta 1 [Source:HGNC Symbol;Acc:HGNC:804]	2358	0.8	0.06	13.57	6.24E-42	1.36E-39
ENSG00000137801	THBS1	thrombospondin 1 [Source:HGNC Symbol;Acc:HGNC:11785]	20795	0.8	0.03	28.21	4.23E-175	2.27E-171
ENSG00000134853	PDGFRA	platelet derived growth factor receptor alpha [Source:HGNC Symbol;Acc:HGNC:8803]	36	0.8	0.31	2.73	0.0063807	0.0297946
ENSG00000140682	TGFB1I1	transforming growth factor beta 1 induced transcript 1 [Source:HGNC Symbol;Acc:HGNC:11767]	401	0.8	0.10	8.46	2.67E-17	1.26E-15
ENSG00000259727	ENSG00000259727	novel transcript	31	0.9	0.33	2.59	0.0097064	0.0419569
ENSG00000065325	GLP2R	glucagon like peptide 2 receptor [Source:HGNC Symbol;Acc:HGNC:4325]	81	0.9	0.23	3.74	1.81E-04	0.0014345
ENSG00000143473	KCNH1	potassium voltage-gated channel subfamily H member 1 [Source:HGNC Symbol;Acc:HGNC:6250]	90	0.9	0.21	4.12	3.84E-05	3.68E-04
ENSG00000204335	SP5	Sp5 transcription factor [Source:HGNC Symbol;Acc:HGNC:14529]	108	0.9	0.20	4.21	2.60E-05	2.58E-04
ENSG00000072163	LIMS2	LIM zinc finger domain containing 2 [Source:HGNC Symbol;Acc:HGNC:16084]	159	0.9	0.15	5.58	2.34E-08	4.09E-07
ENSG00000189223	PAX8-AS1	PAX8 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:49271]	34	0.9	0.33	2.61	0.0089728	0.0395388
ENSG00000179841	AKAP5	A-kinase anchoring protein 5 [Source:HGNC Symbol;Acc:HGNC:375]	162	0.9	0.15	5.77	7.85E-09	1.49E-07
ENSG00000184845	DRD1	dopamine receptor D1 [Source:HGNC Symbol;Acc:HGNC:3020]	92	0.9	0.21	4.20	2.66E-05	2.63E-04
ENSG00000206190	ATP10A	ATPase phospholipid transporting 10A (putative) [Source:HGNC Symbol;Acc:HGNC:13542]	299	0.9	0.11	7.62	2.61E-14	9.30E-13
ENSG00000173706	HEG1	heart development protein with EGF like domains 1 [Source:HGNC Symbol;Acc:HGNC:29227]	1137	0.9	0.06	13.60	4.04E-42	8.93E-40
ENSG00000074410	CA12	carbonic anhydrase 12 [Source:HGNC Symbol;Acc:HGNC:1371]	105	0.9	0.19	4.50	6.82E-06	7.71E-05
ENSG00000124225	PMEPA1	prostate transmembrane protein, androgen induced 1 [Source:HGNC Symbol;Acc:HGNC:14107]	6980	0.9	0.04	24.11	2.17E-128	6.98E-125
ENSG00000152503	TRIM36	tripartite motif containing 36 [Source:HGNC Symbol;Acc:HGNC:16280]	58	0.9	0.25	3.48	5.00E-04	0.0035031
ENSG00000233379	ENSG00000233379	novel transcript	40	0.9	0.33	2.64	0.008332	0.03709
ENSG00000279249	ENSG00000279249	novel transcript, antisense to CBLN1	38	0.9	0.31	2.79	0.0052936	0.0255393
ENSG00000204381	LAYN	layilin [Source:HGNC Symbol;Acc:HGNC:29471]	81	0.9	0.21	4.08	4.45E-05	4.19E-04
ENSG00000231645	KRT17P6	keratin 17 pseudogene 6 [Source:HGNC Symbol;Acc:HGNC:50724]	38	0.9	0.32	2.72	0.0065647	0.0305124
ENSG00000179820	MYADM	myeloid associated differentiation marker [Source:HGNC Symbol;Acc:HGNC:7544]	1698	0.9	0.05	15.95	2.91E-57	1.23E-54
ENSG00000235162	C12orf75	chromosome 12 open reading frame 75 [Source:HGNC Symbol;Acc:HGNC:35164]	3476	0.9	0.05	19.57	2.71E-85	3.12E-82
ENSG00000257335	MGAM	maltase-glucoamylase [Source:HGNC Symbol;Acc:HGNC:7043]	70	0.9	0.23	3.94	8.02E-05	7.06E-04
ENSG00000167601	AXL	AXL receptor tyrosine kinase [Source:HGNC Symbol;Acc:HGNC:905]	1212	0.9	0.06	14.74	3.83E-49	1.31E-46
ENSG00000204758	ENSG00000204758	novel transcript, antisense to RPL26L1	34	0.9	0.33	2.71	0.0067174	0.0310965

ENSG00000183072	NKX2-5	NK2 homeobox 5 [Source:HGNC Symbol;Acc:HGNC:2488]	317	0.9	0.12	7.28	3.43E-13	1.13E-11
ENSG00000118503	TNFAIP3	TNF alpha induced protein 3 [Source:HGNC Symbol;Acc:HGNC:11896]	763	0.9	0.08	11.66	2.10E-31	2.50E-29
ENSG00000153162	BMP6	bone morphogenetic protein 6 [Source:HGNC Symbol;Acc:HGNC:1073]	113	0.9	0.18	5.03	4.99E-07	6.92E-06
ENSG00000163235	TGFA	transforming growth factor alpha [Source:HGNC Symbol;Acc:HGNC:11765]	3341	0.9	0.04	21.04	2.68E-98	4.32E-95
ENSG00000166073	GPR176	G protein-coupled receptor 176 [Source:HGNC Symbol;Acc:HGNC:32370]	164	0.9	0.15	5.89	3.88E-09	7.63E-08
ENSG00000175868	CALCB	calcitonin related polypeptide beta [Source:HGNC Symbol;Acc:HGNC:1438]	979	0.9	0.07	13.55	8.15E-42	1.71E-39
ENSG00000170558	CDH2	cadherin 2 [Source:HGNC Symbol;Acc:HGNC:1759]	109	0.9	0.18	4.90	9.82E-07	1.30E-05
ENSG00000134013	LOXL2	lysyl oxidase like 2 [Source:HGNC Symbol;Acc:HGNC:6666]	151	0.9	0.15	5.88	4.08E-09	8.00E-08
ENSG00000183853	KIRREL1	kirre like nephrin family adhesion molecule 1 [Source:HGNC Symbol;Acc:HGNC:15734]	970	0.9	0.06	13.92	4.89E-44	1.31E-41
ENSG00000143147	GPR161	G protein-coupled receptor 161 [Source:HGNC Symbol;Acc:HGNC:23694]	285	0.9	0.13	7.11	1.15E-12	3.48E-11
ENSG00000131435	PDLIM4	PDZ and LIM domain 4 [Source:HGNC Symbol;Acc:HGNC:16501]	39	0.9	0.30	2.98	0.0028845	0.0156184
ENSG00000261770	ENSG00000261770	novel transcript	143	0.9	0.16	5.69	1.30E-08	2.35E-07
ENSG00000175040	CHST2	carbohydrate sulfotransferase 2 [Source:HGNC Symbol;Acc:HGNC:1970]	51	0.9	0.26	3.43	6.00E-04	0.0040967
ENSG00000101204	CHRNA4	cholinergic receptor nicotinic alpha 4 subunit [Source:HGNC Symbol;Acc:HGNC:1958]	48	0.9	0.27	3.37	7.50E-04	0.0049586
ENSG00000229656	ITGB1-DT	ITGB1 divergent transcript [Source:HGNC Symbol;Acc:HGNC:53718]	102	0.9	0.18	4.92	8.49E-07	1.14E-05
ENSG00000162745	OLFML2B	olfactomedin like 2B [Source:HGNC Symbol;Acc:HGNC:24558]	72	0.9	0.23	3.92	9.02E-05	7.85E-04
ENSG00000238266	LINC00707	long intergenic non-protein coding RNA 707 [Source:HGNC Symbol;Acc:HGNC:44691]	42	0.9	0.30	3.01	0.0026444	0.0145083
ENSG00000128422	KRT17	keratin 17 [Source:HGNC Symbol;Acc:HGNC:6427]	49378	0.9	0.03	27.48	3.23E-166	1.30E-162
ENSG00000168917	SLC35G2	solute carrier family 35 member G2 [Source:HGNC Symbol;Acc:HGNC:28480]	78	0.9	0.23	3.96	7.56E-05	6.68E-04
ENSG00000123843	C4BPB	complement component 4 binding protein beta [Source:HGNC Symbol;Acc:HGNC:1328]	134	0.9	0.18	5.16	2.41E-07	3.55E-06
ENSG00000187498	COL4A1	collagen type IV alpha 1 chain [Source:HGNC Symbol;Acc:HGNC:2202]	1377	0.9	0.06	15.79	3.81E-56	1.58E-53
ENSG00000144331	ZNF385B	zinc finger protein 385B [Source:HGNC Symbol;Acc:HGNC:26332]	53	0.9	0.27	3.47	5.23E-04	0.0036457
ENSG00000127329	PTPRB	protein tyrosine phosphatase receptor type B [Source:HGNC Symbol;Acc:HGNC:9665]	51	0.9	0.26	3.53	4.14E-04	0.0029768
ENSG00000075618	FSCN1	fascin actin-bundling protein 1 [Source:HGNC Symbol;Acc:HGNC:11148]	2269	0.9	0.05	19.23	2.14E-82	1.92E-79
ENSG00000171522	PTGER4	prostaglandin E receptor 4 [Source:HGNC Symbol;Acc:HGNC:9596]	296	0.9	0.12	7.89	3.07E-15	1.19E-13
ENSG00000128342	LIF	LIF interleukin 6 family cytokine [Source:HGNC Symbol;Acc:HGNC:6596]	131	0.9	0.34	2.78	0.0053712	0.0258212
ENSG00000274422	ENSG00000274422	novel transcript	30	0.9	0.35	2.67	0.0075617	0.0342207
ENSG00000226887	ERVMER34-1	endogenous retrovirus group MER34 member 1, envelope [Source:HGNC Symbol;Acc:HGNC:42970]	121	0.9	0.18	5.29	1.20E-07	1.87E-06
ENSG00000145623	OSMR	oncostatin M receptor [Source:HGNC Symbol;Acc:HGNC:8507]	2305	0.9	0.05	19.23	2.10E-82	1.92E-79
ENSG00000137124	ALDH1B1	aldehyde dehydrogenase 1 family member B1 [Source:HGNC Symbol;Acc:HGNC:407]	809	0.9	0.07	12.90	4.60E-38	7.89E-36
ENSG00000225614	ZNF469	zinc finger protein 469 [Source:HGNC Symbol;Acc:HGNC:23216]	35	0.9	0.32	2.94	0.0033195	0.017452
ENSG00000154330	PGM5	phosphoglucomutase 5 [Source:HGNC Symbol;Acc:HGNC:8908]	147	0.9	0.16	5.90	3.58E-09	7.09E-08
ENSG00000123685	BATF3	basic leucine zipper ATF-like transcription factor 3 [Source:HGNC Symbol;Acc:HGNC:28915]	116	0.9	0.18	5.27	1.38E-07	2.12E-06
ENSG00000076706	MCAM	melanoma cell adhesion molecule [Source:HGNC Symbol;Acc:HGNC:6934]	401	0.9	0.10	9.66	4.66E-22	3.27E-20
ENSG00000175445	LPL	lipoprotein lipase [Source:HGNC Symbol;Acc:HGNC:6677]	34	0.9	0.33	2.86	0.0042984	0.021636
ENSG00000129521	EGLN3	egl-9 family hypoxia inducible factor 3 [Source:HGNC Symbol;Acc:HGNC:14661]	541	0.9	0.09	10.78	4.24E-27	4.15E-25
ENSG00000074590	NUAK1	NUAK family kinase 1 [Source:HGNC Symbol;Acc:HGNC:14311]	715	1.0	0.08	12.60	2.05E-36	3.15E-34
ENSG00000167754	KLK5	kallikrein related peptidase 5 [Source:HGNC Symbol;Acc:HGNC:6366]	4184	1.0	0.05	19.98	8.51E-89	1.14E-85
ENSG00000168685	IL7R	interleukin 7 receptor [Source:HGNC Symbol;Acc:HGNC:6024]	202	1.0	0.15	6.49	8.54E-11	2.12E-09
ENSG00000183091	NEB	nebulin [Source:HGNC Symbol;Acc:HGNC:7720]	51	1.0	0.26	3.66	2.53E-04	0.0019297
ENSG00000258115	ENSG00000258115	novel transcript, antisense to TPH2	105	1.0	0.18	5.21	1.93E-07	2.89E-06
ENSG00000122641	INHBA	inhibin subunit beta A [Source:HGNC Symbol;Acc:HGNC:6066]	116	1.0	0.19	5.18	2.24E-07	3.33E-06

ENSG00000128564	VGF	VGF nerve growth factor inducible [Source:HGNC Symbol;Acc:HGNC:12684]	1150	1.0	0.24	4.08	4.53E-05	4.25E-04
ENSG00000149633	KIAA1755	KIAA1755 [Source:HGNC Symbol;Acc:HGNC:29372]	67	1.0	0.25	3.93	8.52E-05	7.45E-04
ENSG00000224080	UBE2FP1	UBE2F pseudogene 1 [Source:HGNC Symbol;Acc:HGNC:44535]	37	1.0	0.32	3.02	0.0025159	0.0139025
ENSG00000277778	PGM5P2	phosphoglucomutase 5 pseudogene 2 [Source:HGNC Symbol;Acc:HGNC:18965]	111	1.0	0.20	4.89	1.01E-06	1.34E-05
ENSG0000019549	SNAI2	snail family transcriptional repressor 2 [Source:HGNC Symbol;Acc:HGNC:11094]	182	1.0	0.14	6.84	7.89E-12	2.23E-10
ENSG00000107295	SH3GL2	SH3 domain containing GRB2 like 2, endophilin A1 [Source:HGNC Symbol;Acc:HGNC:10831]	62	1.0	0.24	4.11	4.02E-05	3.81E-04
ENSG00000125810	CD93	CD93 molecule [Source:HGNC Symbol;Acc:HGNC:15855]	46	1.0	0.31	3.16	0.0015681	0.0092962
ENSG00000225383	SFTA1P	surfactant associated 1, lncRNA [Source:HGNC Symbol;Acc:HGNC:18383]	28	1.0	0.37	2.66	0.0077434	0.0349137
ENSG00000176697	BDNF	brain derived neurotrophic factor [Source:HGNC Symbol;Acc:HGNC:1033]	171	1.0	0.15	6.55	5.62E-11	1.43E-09
ENSG00000124159	MATN4	matrilin 4 [Source:HGNC Symbol;Acc:HGNC:6910]	37	1.0	0.33	3.04	0.0023731	0.0132406
ENSG00000184113	CLDN5	claudin 5 [Source:HGNC Symbol;Acc:HGNC:2047]	69	1.0	0.27	3.63	2.80E-04	0.002103
ENSG00000229261	ENSG00000229261	novel transcript, antisense to HKDC1	33	1.0	0.33	3.05	0.0022744	0.0127604
ENSG0000011422	PLAUR	plasminogen activator, urokinase receptor [Source:HGNC Symbol;Acc:HGNC:9053]	1442	1.0	0.06	16.07	3.95E-58	1.72E-55
ENSG00000115009	CCL20	C-C motif chemokine ligand 20 [Source:HGNC Symbol;Acc:HGNC:10619]	37	1.0	0.35	2.94	0.0032625	0.01724
ENSG00000174099	MSRB3	methionine sulfoxide reductase B3 [Source:HGNC Symbol;Acc:HGNC:27375]	147	1.0	0.16	6.37	1.91E-10	4.53E-09
ENSG00000023445	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:HGNC:591]	730	1.0	0.08	13.40	6.05E-41	1.16E-38
ENSG00000230623	ENSG00000230623	novel transcript, antisense to ZNF281	26	1.0	0.37	2.80	0.0051823	0.0251609
ENSG00000081041	CXCL2	C-X-C motif chemokine ligand 2 [Source:HGNC Symbol;Acc:HGNC:4603]	68	1.0	0.27	3.84	1.21E-04	0.0010103
ENSG00000067798	NAV3	neuron navigator 3 [Source:HGNC Symbol;Acc:HGNC:15998]	309	1.0	0.12	8.80	1.33E-18	7.01E-17
ENSG00000154734	ADAMTS1	ADAM metalloproteinase with thrombospondin type 1 motif 1 [Source:HGNC Symbol;Acc:HGNC:217]	1459	1.1	0.06	18.19	6.09E-74	4.27E-71
ENSG00000163735	CXCL5	C-X-C motif chemokine ligand 5 [Source:HGNC Symbol;Acc:HGNC:10642]	243	1.1	0.14	7.64	2.26E-14	8.05E-13
ENSG00000157570	TSPAN18	tetraspanin 18 [Source:HGNC Symbol;Acc:HGNC:20660]	54	1.1	0.26	4.00	6.30E-05	5.69E-04
ENSG00000095752	IL11	interleukin 11 [Source:HGNC Symbol;Acc:HGNC:5966]	122	1.1	0.20	5.43	5.79E-08	9.48E-07
ENSG00000026103	FAS	Fas cell surface death receptor [Source:HGNC Symbol;Acc:HGNC:11920]	120	1.1	0.18	6.06	1.32E-09	2.76E-08
ENSG00000164509	IL31RA	interleukin 31 receptor A [Source:HGNC Symbol;Acc:HGNC:18969]	165	1.1	0.15	7.23	4.82E-13	1.54E-11
ENSG00000203706	SERTAD4-AS1	SERTAD4 antisense RNA 1 [Source:HGNC Symbol;Acc:HGNC:32019]	38	1.1	0.31	3.52	4.25E-04	0.0030398
ENSG00000134954	ETS1	ETS proto-oncogene 1, transcription factor [Source:HGNC Symbol;Acc:HGNC:3488]	818	1.1	0.07	15.16	6.53E-52	2.34E-49
ENSG00000047617	ANO2	anoctamin 2 [Source:HGNC Symbol;Acc:HGNC:1183]	70	1.1	0.24	4.59	4.42E-06	5.15E-05
ENSG00000214711	CAPN14	calpain 14 [Source:HGNC Symbol;Acc:HGNC:16664]	604	1.1	0.08	13.54	8.95E-42	1.85E-39
ENSG00000168621	GDNF	glial cell derived neurotrophic factor [Source:HGNC Symbol;Acc:HGNC:4232]	94	1.1	0.20	5.39	6.92E-08	1.12E-06
ENSG00000107249	GLIS3	GLIS family zinc finger 3 [Source:HGNC Symbol;Acc:HGNC:28510]	247	1.1	0.12	9.09	9.65E-20	5.58E-18
ENSG00000136244	IL6	interleukin 6 [Source:HGNC Symbol;Acc:HGNC:6018]	640	1.1	0.09	12.75	3.00E-37	4.88E-35
ENSG00000092969	TGFB2	transforming growth factor beta 2 [Source:HGNC Symbol;Acc:HGNC:11768]	682	1.1	0.09	13.12	2.57E-39	4.61E-37
ENSG00000139926	FRMD6	FERM domain containing 6 [Source:HGNC Symbol;Acc:HGNC:19839]	1578	1.1	0.06	18.73	2.88E-78	2.32E-75
ENSG00000138675	FGF5	fibroblast growth factor 5 [Source:HGNC Symbol;Acc:HGNC:3683]	51	1.1	0.27	4.18	2.94E-05	2.89E-04
ENSG00000169184	MN1	MN1 proto-oncogene, transcriptional regulator [Source:HGNC Symbol;Acc:HGNC:7180]	34	1.1	0.34	3.39	6.91E-04	0.0046205
ENSG00000230836	LINC01293	long intergenic non-protein coding RNA 1293 [Source:HGNC Symbol;Acc:HGNC:50362]	30	1.1	0.34	3.30	9.69E-04	0.0061695
ENSG00000110328	GALNT18	polypeptide N-acetylgalactosaminyltransferase 18 [Source:HGNC Symbol;Acc:HGNC:30488]	69	1.1	0.25	4.61	3.95E-06	4.66E-05
ENSG00000163739	CXCL1	C-X-C motif chemokine ligand 1 [Source:HGNC Symbol;Acc:HGNC:4602]	67	1.1	0.26	4.42	9.65E-06	1.05E-04
ENSG00000175592	FOSL1	FOS like 1, AP-1 transcription factor subunit [Source:HGNC Symbol;Acc:HGNC:13718]	234	1.2	0.13	8.59	8.92E-18	4.34E-16
ENSG00000169429	CXCL8	C-X-C motif chemokine ligand 8 [Source:HGNC Symbol;Acc:HGNC:6025]	363	1.2	0.35	3.32	9.10E-04	0.0058534
ENSG00000139278	GLIPR1	GLI pathogenesis related 1 [Source:HGNC Symbol;Acc:HGNC:17001]	595	1.2	0.08	14.13	2.32E-45	6.45E-43

ENSG0000050344	NFE2L3	nuclear factor, erythroid 2 like 3 [Source:HGNC Symbol;Acc:HGNC:7783]	291	1.2	0.12	9.30	1.39E-20	8.44E-19
ENSG00000106714	CNTNAP3	contactin associated protein family member 3 [Source:HGNC Symbol;Acc:HGNC:13834]	29	1.2	0.37	3.20	0.0013516	0.0081966
ENSG00000144821	MYH15	myosin heavy chain 15 [Source:HGNC Symbol;Acc:HGNC:31073]	600	1.2	0.09	13.68	1.30E-42	3.00E-40
ENSG00000036672	USP2	ubiquitin specific peptidase 2 [Source:HGNC Symbol;Acc:HGNC:12618]	104	1.2	0.19	6.13	8.71E-10	1.88E-08
ENSG00000169067	ACTBL2	actin beta like 2 [Source:HGNC Symbol;Acc:HGNC:17780]	161	1.2	0.15	7.71	1.22E-14	4.41E-13
ENSG00000074047	GLI2	GLI family zinc finger 2 [Source:HGNC Symbol;Acc:HGNC:4318]	116	1.2	0.18	6.68	2.38E-11	6.41E-10
ENSG00000206432	TMEM200C	transmembrane protein 200C [Source:HGNC Symbol;Acc:HGNC:37208]	61	1.2	0.24	4.91	8.88E-07	1.19E-05
ENSG00000050555	LAMC3	laminin subunit gamma 3 [Source:HGNC Symbol;Acc:HGNC:6494]	38	1.2	0.31	3.80	1.43E-04	0.0011741
ENSG00000156414	TDRD9	tudor domain containing 9 [Source:HGNC Symbol;Acc:HGNC:20122]	25	1.2	0.38	3.19	0.0014332	0.0086009
ENSG00000078401	EDN1	endothelin 1 [Source:HGNC Symbol;Acc:HGNC:3176]	532	1.2	0.09	13.80	2.52E-43	6.25E-41
ENSG00000233117	LINC00702	long intergenic non-protein coding RNA 702 [Source:HGNC Symbol;Acc:HGNC:44676]	27	1.2	0.38	3.27	0.0010675	0.0067028
ENSG00000113578	FGF1	fibroblast growth factor 1 [Source:HGNC Symbol;Acc:HGNC:3665]	45	1.3	0.29	4.42	9.95E-06	1.08E-04
ENSG00000180287	PLD5	phospholipase D family member 5 [Source:HGNC Symbol;Acc:HGNC:26879]	54	1.3	0.27	4.64	3.41E-06	4.08E-05
ENSG00000266088	ENSG00000266088	novel transcript	43	1.3	0.29	4.42	9.89E-06	1.07E-04
ENSG00000041982	TNC	tenascin C [Source:HGNC Symbol;Acc:HGNC:5318]	3991	1.3	0.04	31.49	1.16E-217	9.39E-214
ENSG00000104856	RELB	RELB proto-oncogene, NF-kB subunit [Source:HGNC Symbol;Acc:HGNC:9956]	742	1.3	0.08	16.89	5.15E-64	2.77E-61
ENSG00000106366	SERPINE1	serpin family E member 1 [Source:HGNC Symbol;Acc:HGNC:8583]	817	1.3	0.20	6.47	1.01E-10	2.49E-09
ENSG00000176136	MC5R	melanocortin 5 receptor [Source:HGNC Symbol;Acc:HGNC:6933]	35	1.3	0.33	4.00	6.45E-05	5.80E-04
ENSG00000116983	HPCAL4	hippocalcin like 4 [Source:HGNC Symbol;Acc:HGNC:18212]	96	1.3	0.20	6.66	2.73E-11	7.26E-10
ENSG00000211592	IGKC	immunoglobulin kappa constant [Source:HGNC Symbol;Acc:HGNC:5716]	46	1.3	0.32	4.04	5.25E-05	4.84E-04
ENSG00000135919	SERPINE2	serpin family E member 2 [Source:HGNC Symbol;Acc:HGNC:8951]	1198	1.3	0.13	9.93	3.03E-23	2.25E-21
ENSG00000133048	CHI3L1	chitinase 3 like 1 [Source:HGNC Symbol;Acc:HGNC:1932]	166	1.3	0.18	7.20	5.95E-13	1.86E-11
ENSG00000163121	NEURL3	neutralized E3 ubiquitin protein ligase 3 [Source:HGNC Symbol;Acc:HGNC:25162]	186	1.3	0.16	8.47	2.39E-17	1.14E-15
ENSG00000170989	S1PR1	sphingosine-1-phosphate receptor 1 [Source:HGNC Symbol;Acc:HGNC:3165]	331	1.3	0.11	12.04	2.19E-33	2.97E-31
ENSG00000118523	CCN2	cellular communication network factor 2 [Source:HGNC Symbol;Acc:HGNC:2500]	483	1.3	0.09	13.89	6.90E-44	1.82E-41
ENSG00000142871	CCN1	cellular communication network factor 1 [Source:HGNC Symbol;Acc:HGNC:2654]	11719	1.3	0.03	40.41	0	0
ENSG00000138356	AOX1	aldehyde oxidase 1 [Source:HGNC Symbol;Acc:HGNC:553]	142	1.3	0.17	7.80	6.08E-15	2.29E-13
ENSG00000148677	ANKRD1	ankyrin repeat domain 1 [Source:HGNC Symbol;Acc:HGNC:15819]	1472	1.3	0.06	20.98	9.20E-98	1.35E-94
ENSG00000113070	HBEGF	heparin binding EGF like growth factor [Source:HGNC Symbol;Acc:HGNC:3059]	735	1.3	0.08	16.57	1.10E-61	5.39E-59
ENSG00000197646	PDCD1LG2	programmed cell death 1 ligand 2 [Source:HGNC Symbol;Acc:HGNC:18731]	82	1.3	0.23	5.99	2.04E-09	4.20E-08
ENSG00000275620	FLJ16779	uncharacterized LOC100192386 [Source:NCBI gene (formerly Entrezgene);Acc:100192386]	31	1.4	0.36	3.74	1.86E-04	0.0014725
ENSG00000271303	SRXN1	sulfiredoxin 1 [Source:HGNC Symbol;Acc:HGNC:16132]	29	1.4	0.40	3.42	6.34E-04	0.0042966
ENSG00000282057	ENSG00000282057	novel transcript	52	1.4	0.27	5.11	3.25E-07	4.67E-06
ENSG00000253660	ENSG00000253660	novel transcript	65	1.4	0.24	5.76	8.62E-09	1.63E-07
ENSG00000198796	ALPK2	alpha kinase 2 [Source:HGNC Symbol;Acc:HGNC:20565]	253	1.4	0.13	10.45	1.42E-25	1.24E-23
ENSG00000115221	ITGB6	integrin subunit beta 6 [Source:HGNC Symbol;Acc:HGNC:6161]	534	1.4	0.09	15.21	2.98E-52	1.09E-49
ENSG00000255346	NOX5	NADPH oxidase 5 [Source:HGNC Symbol;Acc:HGNC:14874]	67	1.4	0.24	5.95	2.64E-09	5.34E-08
ENSG00000248713	C4orf54	chromosome 4 open reading frame 54 [Source:HGNC Symbol;Acc:HGNC:27741]	86	1.4	0.21	6.66	2.74E-11	7.28E-10
ENSG00000215218	UBE2QL1	ubiquitin conjugating enzyme E2 Q family like 1 [Source:HGNC Symbol;Acc:HGNC:37269]	205	1.4	0.14	10.43	1.77E-25	1.55E-23
ENSG00000101198	NKAIN4	sodium/potassium transporting ATPase interacting 4 [Source:HGNC Symbol;Acc:HGNC:16191]	361	1.4	0.11	13.28	3.21E-40	6.09E-38
ENSG00000163734	CXCL3	C-X-C motif chemokine ligand 3 [Source:HGNC Symbol;Acc:HGNC:4604]	40	1.5	0.33	4.40	1.07E-05	1.14E-04
ENSG00000166106	ADAMTS15	ADAM metalloproteinase with thrombospondin type 1 motif 15 [Source:HGNC Symbol;Acc:HGNC:16305]	139	1.5	0.17	8.59	8.45E-18	4.13E-16

ENSG00000203721	LINC00862	long intergenic non-protein coding RNA 862 [Source:HGNC Symbol;Acc:HGNC:21901]	238	1.5	0.13	11.31	1.11E-29	1.25E-27
ENSG00000135625	EGR4	early growth response 4 [Source:HGNC Symbol;Acc:HGNC:3241]	31	1.5	0.36	4.22	2.44E-05	2.44E-04
ENSG00000174792	ODAPH	odontogenesis associated phosphoprotein [Source:HGNC Symbol;Acc:HGNC:26300]	287	1.5	0.12	12.77	2.52E-37	4.23E-35
ENSG00000157168	NRG1	neuregulin 1 [Source:HGNC Symbol;Acc:HGNC:7997]	81	1.5	0.24	6.35	2.15E-10	5.06E-09
ENSG00000169994	MYO7B	myosin VIIB [Source:HGNC Symbol;Acc:HGNC:7607]	31	1.5	0.36	4.31	1.65E-05	1.71E-04
ENSG00000178776	C5orf46	chromosome 5 open reading frame 46 [Source:HGNC Symbol;Acc:HGNC:33768]	32	1.6	0.35	4.58	4.76E-06	5.49E-05
ENSG00000254842	LINC02551	long intergenic non-protein coding RNA 2551 [Source:HGNC Symbol;Acc:HGNC:53586]	122	1.6	0.18	8.81	1.28E-18	6.83E-17
ENSG00000162614	NEXN	nexilin F-actin binding protein [Source:HGNC Symbol;Acc:HGNC:29557]	214	1.6	0.15	11.06	1.91E-28	2.04E-26
ENSG00000178172	SPINK6	serine peptidase inhibitor Kazal type 6 [Source:HGNC Symbol;Acc:HGNC:29486]	1015	1.6	0.07	22.87	8.51E-116	2.29E-112
ENSG00000260604	ENSG00000260604	novel transcript	108	1.7	0.20	8.48	2.24E-17	1.07E-15
ENSG00000165617	DACT1	dishevelled binding antagonist of beta catenin 1 [Source:HGNC Symbol;Acc:HGNC:17748]	248	1.8	0.13	13.45	3.00E-41	5.89E-39
ENSG00000138798	EGF	epidermal growth factor [Source:HGNC Symbol;Acc:HGNC:3229]	228	1.8	0.14	13.12	2.57E-39	4.61E-37
ENSG00000144583	MARCHF4	membrane associated ring-CH-type finger 4 [Source:HGNC Symbol;Acc:HGNC:29269]	47	1.8	0.30	6.15	7.74E-10	1.68E-08
ENSG00000008517	IL32	interleukin 32 [Source:HGNC Symbol;Acc:HGNC:16830]	199	1.9	0.15	12.76	2.67E-37	4.44E-35
ENSG00000169594	BNC1	basonuclin 1 [Source:HGNC Symbol;Acc:HGNC:1081]	30	2.0	0.38	5.18	2.24E-07	3.33E-06
ENSG00000120051	CFAP58	cilia and flagella associated protein 58 [Source:HGNC Symbol;Acc:HGNC:26676]	63	2.4	0.28	8.50	1.91E-17	9.18E-16

Supplementary Table 8: Shown are genes that are significantly differentially expressed between H1650-Tr-BrM-S100A9i and H1650-Tr-BrM-Lenti-Con identified by RNA-sequencing. Differential expression statistics from DESeq2 analysis are included for all significantly differentially expressed genes. See also accompanying Supplementary Fig. 4.