

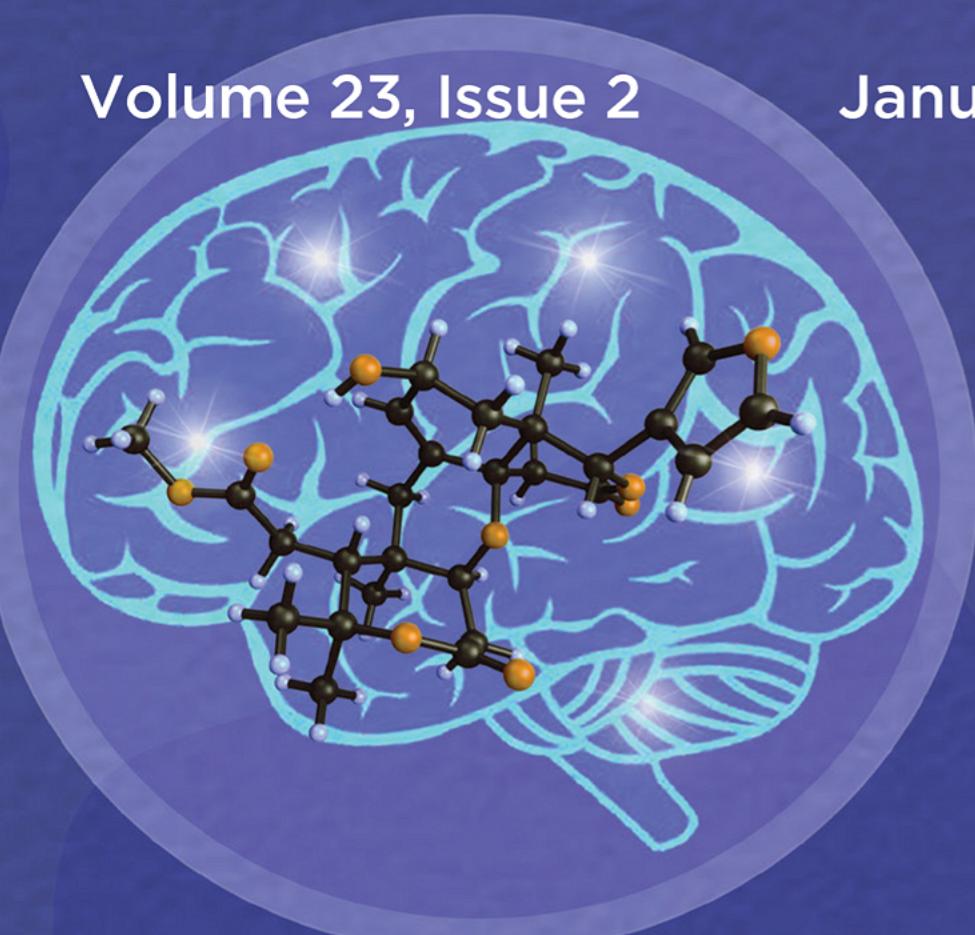
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# Harpertrioate A, an A,B,D-seco-Limonoid with Promising Biological Activity against Alzheimer's Disease from Twigs of *Harrisonia perforata* (Blanco) Merr.

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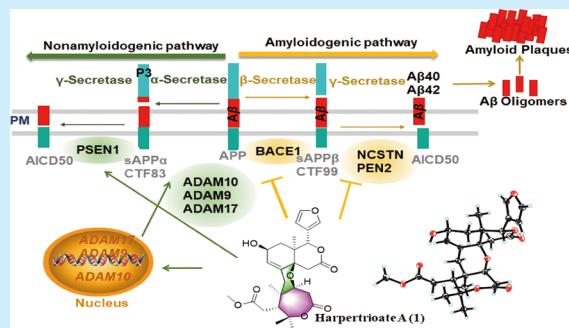
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**ABSTRACT:** Harpertrioate A (**1**), an A,B,D-seco-limonoid with a rearranged ring B incorporating exocyclic C-30, was isolated from the EtOAc extract of *Harrisonia perforata* twigs. Its structure, including absolute configurations, was determined on the basis of spectroscopic data and X-ray crystallography. This compound exhibited biological activities against Alzheimer's disease by reducing  $\text{A}\beta_{42}$  and  $\text{A}\beta_{40}$  production and shifting APP processing toward nonamyloidogenic pathway. The effect of **1** on the  $\text{A}\beta$  production was comparable to that of gemfibrozil.



**A**lzheimer's disease (AD) is the most common neurodegenerative disease in the elderly characterized by progressive memory loss and cognitive decline and has become a serious global health problem. The extracellular senile plaques (composed of  $\beta$ -amyloid,  $\text{A}\beta$ ) and intracellular neurofibrillary tangles (composed of hyperphosphorylated tau) are the main neuropathological hallmarks of AD.<sup>1</sup> Due to the complex etiology of AD, there is very limited therapeutic drug treatment and approaches for curing AD so far.<sup>2</sup> The prevention of  $\text{A}\beta$  production is one of the promising strategies for AD prevention and treatment.<sup>3</sup> Previous studies have shown that natural products play an essential role in clinical and translational potential against the AD.<sup>4</sup> We had previously shown the potential of  $5\beta$ -*O*-angelate-20-deoxyingenol (HEP14) as a PKC activator in the treatment of lysosomal-related diseases including AD.<sup>5</sup>

The shrub *Harrisonia perforata* (Blanco) Merr. is the only species of *Harrisonia* grown in China. Its root and leaves have been used in folk medicine to treat wound healing and malaria.<sup>6</sup> Previously, highly rearranged quassinoïd and limonoid derivatives with notable biological properties have been discovered and evaluated.<sup>7</sup> As a continuation of our ongoing work on the discovery of bioactive molecules from this plant, a new limonoid, harpertrioate A (**1**), was furnished from the extracts of the twigs of *H. perforata*, which possesses an A,B,D-seco-limonoid skeleton with a highly rearranged ring B incorporating unusually exocyclic C-30. Its structure, including absolute configurations, was established by detailed spectroscopic analyses and single-crystal X-ray diffraction. The

biogenetic pathway for **1** was proposed, in which the known compound Deoxybacunone<sup>8</sup> from plants of the same genus serving as the upstream precursor. Moreover, **1** showed potent bioactivity against AD.

Harpertrioate A (**1**), colorless crystal, possessed a molecular formula  $\text{C}_{27}\text{H}_{34}\text{O}_9$  as determined by HRESIMS ion at  $m/z$  525.2097 [ $\text{M} + \text{Na}$ ]<sup>+</sup> (calcd 525.2095) and  $^{13}\text{C}$  NMR data, requiring 11 indices of hydrogen deficiency. The IR spectrum displayed absorptions for hydroxyl ( $3436\text{ cm}^{-1}$ ) and carbonyl ( $1727\text{ cm}^{-1}$ ). The  $^{13}\text{C}$  NMR spectrum (Table 1) resolved 27 carbon resonances, corresponding to 5 methyls (1 methoxyl), 5 methylenes, 8 methines (4 olefinic and 3 oxygenated), and 9 quaternary carbons (2 olefinic, 2 oxygenated and 3 carbonyls) as distinguished by the HSQC spectrum and DEPT experiments (Figures S1, S2, and S4). In addition, the NMR data exhibited resonances for a  $\beta$ -substituted furan ring ( $\delta_{\text{H}}$  6.47, 7.66, 7.69), a trisubstituted double bond ( $\delta_{\text{H}}$  5.62;  $\delta_{\text{C}}$  130.6, 131.9), and four tertiary methyls ( $\delta_{\text{H}}$  0.89, 1.05, 1.18, 1.53), suggesting that **1** should be a limonoid with a tetracyclic core.<sup>1</sup>

Comprehensive investigation on the 2D NMR spectra of **1**, especially HMBC data (Figure 1C and Figures S3–S), allowed

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Table 1.  $^1\text{H}$  (500 Hz) and  $^{13}\text{C}$  (125 Hz) NMR Data of Harpertrioate A (1) ( $\delta$  in ppm)

no.	$\delta_{\text{H}}^{\text{a}}$ (J in Hz)	$\delta_{\text{C}}^{\text{a}}$	no.	$\delta_{\text{H}}^{\text{a}}$ (J in Hz)	$\delta_{\text{C}}^{\text{a}}$
1	4.03, d (6.7)	72.9	15a	3.67, d (18.6)	32.2
2a	3.34 <sup>b</sup>	37.8	15b	2.65, d (18.6)	
2b	2.5 <sup>b</sup>		16		168.7
3		170.7	17	5.41, br s	77.7
4		83.8	18	0.89, s	17.2
5	2.82, d, (8.8)	41.6	19	1.05, s	21.0
6a	2.61, d, (17.3)	34.1	20		120.7
6b	2.17, dd, (17.3, 8.8)		21	7.66, br s	141.2
7		174.0	22	6.47, s	110.2
8		130.6	23	7.69, br s	143.5
9	5.62, br s	131.9	28	1.18, s	32.5
10		45.0	29	1.53, s	22.4
11	4.15, m	63.4	30a	2.23, d, (13.6)	40.8
12a	1.35, dd, (11.5, 5.4)	35.7	30b	2.12, d, (13.6)	
12b	1.46, dd, (11.5, 10.3)		OMe	3.63, s	
13		38.8	OH	4.42, d, (6.1)	
14		74.6			

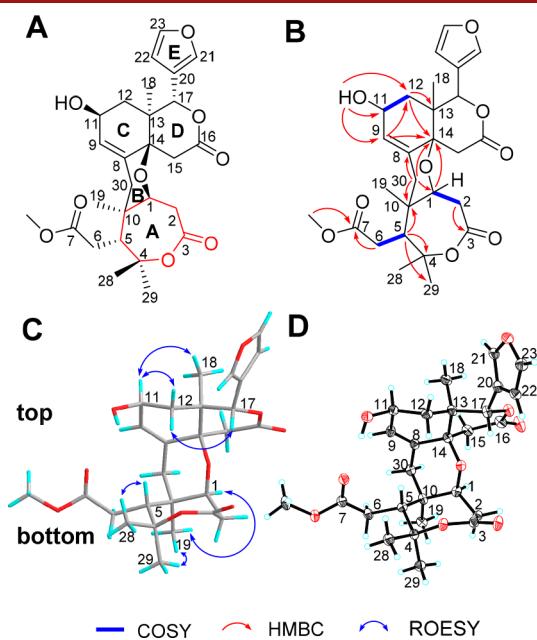
<sup>a</sup>Recorded in DMSO-*d*<sub>6</sub>. <sup>b</sup>Overlapped.

Figure 1. (A) Structure of harpertrioate A (1). (B, C) Key  $^1\text{H}$ - $^1\text{H}$  COSY, HMBC, and ROESY correlations of 1. (D) ORTEP drawing of 1.

the establishment of its planar structure. Briefly, rings D–E were readily established by comparison with those of several known limonoids, such as methyl ivorensate.<sup>9</sup> In addition,  $^1\text{H}$ - $^1\text{H}$  COSY correlations of H-11/H<sub>2</sub>-12, and multiple HMBC correlations of H<sub>2</sub>-12/C-13, C-14, OH/C-11, C-12, and C-9, and H-9/C-12 and C-14 were observed, suggesting a six-numbered ring C with  $\Delta^{8,9}$  double bond and a hydroxyl attached to C-11. The B-ring was assembled to be a tetrahydrofuran ring by the key HMBC cross-peaks of H<sub>2</sub>-30/C-1, C-8, C-10, and C-14, and H-1/C-14, as well as the chemical shifts of C-1 ( $\delta_{\text{C}}$  72.9) and C-14 ( $\delta_{\text{C}}$  74.6). Subsequently, the HMBC correlations of H<sub>2</sub>-6/C-7, and OCH<sub>3</sub>/C-7 attached a methoxycarbonylmethyl moiety at C-6; the linkages of C-4 and C-10 to C-5 was assigned by the multiple HMBC correlations of H-5/C-4, C-6, C-7, C-10 and

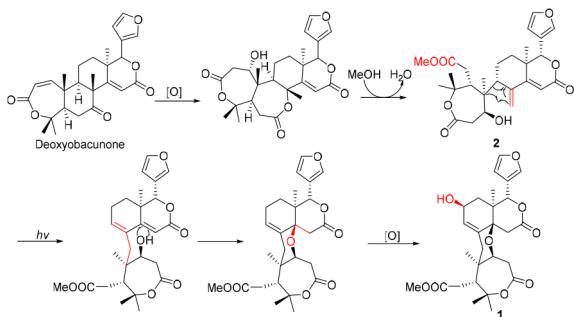
C-29; the HMBC correlation between H<sub>2</sub>-2 and C-3 ( $\delta_{\text{C}}$  170.7) clearly indicated the connectivity of C-2 and C-3. Finally, the terminus of C-3 ester carbonyl was most likely to form the ring A of a seven-membered lactone with the oxygenated C-4, which was severely downfield shifted at  $\delta_{\text{C}}$  83.8, to consume the remaining one degree of unsaturation. The planar structure of 1, belonging to A,B,D-*seco*-limonoid, was therefore assigned.

The relative configuration of 1 was determined by its  $^1\text{H}$  NMR and rotating frame nuclear Overhauser effect spectrum (ROESY) (Figure S6). For the 1-(furan-3-yl)-hexahydro-3*H*-isochromen-3-one moiety (top part), ROESY correlations of H-11/H<sub>3</sub>-18 and H-12a and H-17/H-12b, combined with the coupling pattern of H-12a (dd,  $J$  = 11.5, 5.4 Hz) and H-12b (dd,  $J$  = 11.5, 10.3 Hz), indicated the relative configurations at each chiral carbons as shown. Likewise, the ROE correlations of H<sub>3</sub>-19/H-1 and H<sub>3</sub>-29 and H<sub>5</sub>-H<sub>3</sub>-28 indicate the relative configurations of the ring A (bottom part). However, the relative configuration of the ring B could not be determined directly due to no useful signals in the ROESY spectrum. To complete the assignment, we made many attempts and finally obtained the X-ray crystal structure of 1, which unambiguously determined the absolute configuration of 1 as 1S,5R,10R,11S,13S,14S,17S (Table S1).

Biogenetically, 1 might be derived from an obacunol-type limonoid,<sup>10</sup> such as deoxyobacunone,<sup>8</sup> which can be oxidized and hydrolyzed to obtain methyl ivorensate type limonoid 2. Subsequently, the intermediate 2 may in turn undergo rearrangement and cyclization to generate 1. Thus, a possible biosynthetic pathway for 1 was proposed as shown in Scheme 1. Moreover, we made a definite conclusion that compound 1 is a natural product for the presence of compound 1 in the crude extract by UPLC-HRESI analysis (Figure S7).

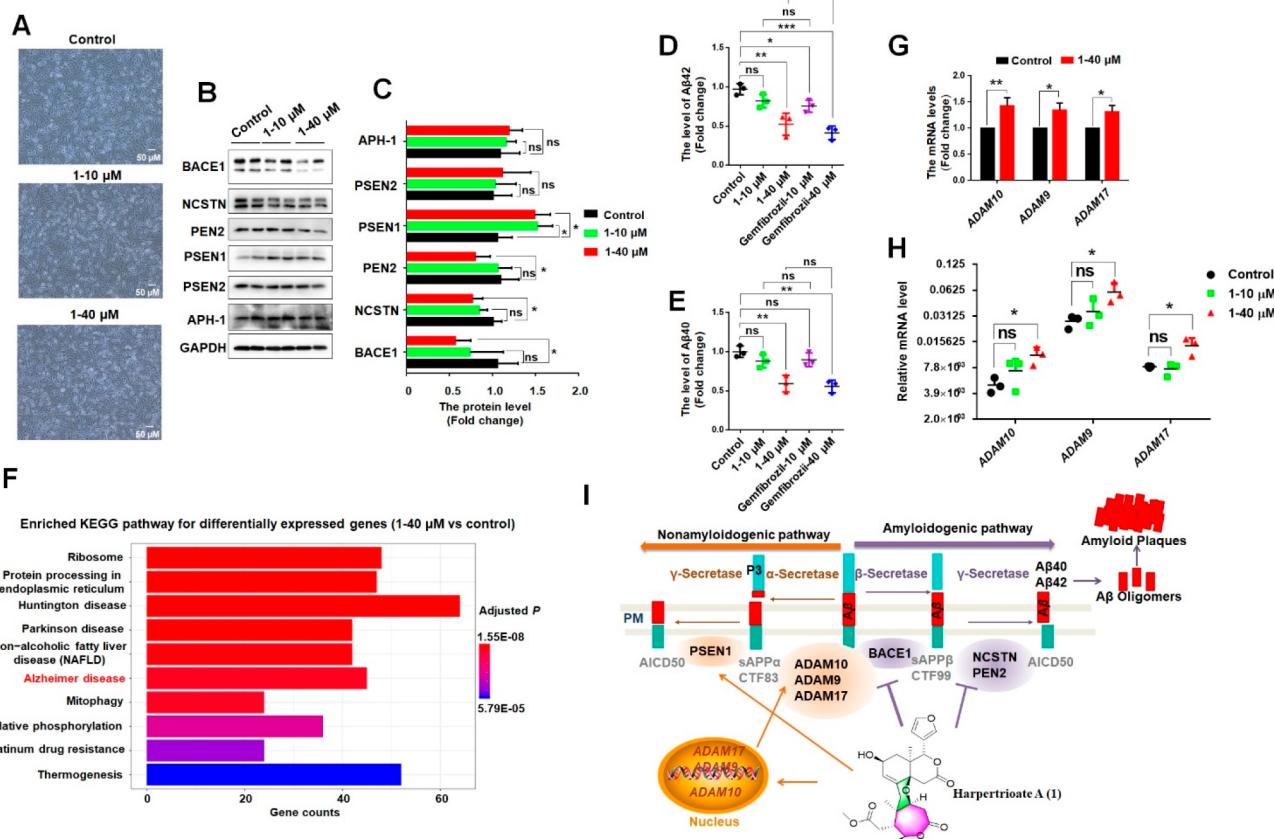
In order to understand the potential biological activity of the identified 1 against AD, we conducted cellular analyses using human glioma U251 cells stably expressing the human APP mutant (APP-p.K670N/M671L) (U251-APP cells), a cellular AD model that was created in our previous studies.<sup>11</sup> In our study, we used DMSO (dimethyl sulfoxide), a solvent of compound 1, as the control. First, we checked the morphology of U251-APP cells and found there were no obvious

**Scheme 1. Hypothetical Biosynthetic Pathway for Compound 1**



morphological changes upon **1** treatment (Figure 2A). Second, we determined whether **1** has the activity of anti- $\text{A}\beta$  production. We checked the protein levels of BACE1 ( $\beta$ -secretase), the first protease that processes amyloid precursor protein (APP) in the pathway leading to the production of

toxic  $\text{A}\beta$  and therefore plays a key role in the pathogenesis of AD,<sup>1a,12</sup> and the components of  $\gamma$ -secretase including NCSTN (nicastrin), PEN2 (PSENEN; presenilin enhancer,  $\gamma$ -secretase subunit), PSEN1 (presenilin 1), PSEN2 (presenilin 2) and APH-1 ( $\gamma$ -secretase subunit aph-1). Using Western blotting analysis, we found significantly decreased protein levels of BACE1, NCSTN and PEN2, an increased level of PSEN1, and unchanged levels of PSEN2 and APH-1 after **1** treatment in U251-APP cells at the concentration of 40  $\mu\text{M}$  (Figure 2B,C). It is noteworthy that all these proteins were not significantly changed after treatment with 10  $\mu\text{M}$  of **1** (Figure 2B,C). Third, we measured the levels of  $\text{A}\beta42$  and  $\text{A}\beta40$  species, which play major synaptotoxic roles in AD,<sup>13</sup> in culture supernatant of U251-APP cells treated with **1** using the enzyme linked immunosorbent assay (ELISA). We found the levels of  $\text{A}\beta42$  and  $\text{A}\beta40$  were significantly decreased in supernatant of U251-APP cells treated with **1** at the concentration of 40  $\mu\text{M}$  (Figure 2D,E), although the  $\text{A}\beta42/\text{A}\beta40$  ratio was not significantly changed (Figure S11). We included gemfibrozil, a U.S. Food and Drug Administration (FDA)-approved drug primarily used



**Figure 2.** Results of biological activity assay. (A) Morphology of the U251-APP cells treated with or without compound **1** (10 or 40  $\mu\text{M}$ ) for 24 h. (B, C) Western blotting assays showing the protein levels of BACE1, NCSTN, PEN2, PSEN1, PSEN2, and APH-1 in the U251-APP cells treated with or without **1**. A representative Western blotting result (B) and quantification of protein levels (C) based on 3 independent experiments. (D, E) Levels of extracellular  $\text{A}\beta42/\text{A}\beta1-42$  and  $\text{A}\beta40/\text{A}\beta1-40$  in the supernatant of U251-APP cells treated with **1** or Gemfibrozil (10  $\mu\text{M}$  or 40  $\mu\text{M}$ ), or DMSO (control) by ELISA. (F) KEGG (Kyoto Encyclopedia of Genes and Genomes) pathway analysis of differentially expressed genes in U251-APP cells treated with or without **1** (40  $\mu\text{M}$ ). (G) The fold change of mRNA levels of ADAM10, ADAM9, and ADAM17 in U251-APP cells treated with **1** (40  $\mu\text{M}$ ) compared with control based on RNA-sequencing. (H) Quantitative real-time PCR were performed to confirm the altered mRNA levels of ADAM10, ADAM9, and ADAM17 in U251-APP cells treated with **1** (10 or 40  $\mu\text{M}$ ) relative to control. (I) A proposed role of **1** in the processing of APP and cleavage products that leads to the formation of amyloid plaques. PM, plasma membrane; APP, amyloid precursor protein; sAPP $\alpha$ , soluble amyloid precursor protein- $\alpha$ ; sAPP $\beta$ , soluble amyloid precursor protein- $\beta$ ; CTF, C-terminal fragment; AICD, amyloid precursor protein intracellular domain. Data are presented as the means  $\pm$  SD ns, not significant; \*\*\*,  $P < 0.001$ ; \*\*,  $P < 0.01$ ; \*,  $P < 0.05$ ; Student's  $t$  test.

to treat hyperlipidemia<sup>14</sup> that could reduce  $A\beta$  production<sup>15</sup> and increase  $A\beta$  clearance,<sup>2d</sup> as a positive treatment in the cellular assay. We found that the effect of **1** on  $A\beta$  production was comparable to that of gemfibrozil. These results suggest that **1** has the property to prevent  $A\beta$  production and its downstream consequence.

To capture the altered transcriptomic profiling in U251-APP cells that treated with or without **1**, we performed the analyses with an unbiased approach by performing RNA-sequencing (RNA-seq). Principle component analysis (PCA) showed a clear distinction in the variation of the transcriptome between the control and **1** (40  $\mu$ M) groups, but not between the control and **1** (10  $\mu$ M) groups. This result indicated that at a concentration of 40  $\mu$ M, **1** may have a strong effect on gene expression pattern (Figure S12A). Consistent with the PCA pattern, no differently expressed genes (DEGs) were found between **1** (10  $\mu$ M) and control groups with our cutoff criterion for significance ( $P$  value were adjusted ( $P$ .adjust) by the Benjamini and Hochberg (BH) method, genes were identified as differentially expressed between different condition if  $P$ .adjust < 0.05, data not shown). The heatmap that DEGs from RNA-seq analysis of U251-APP cells treated with or without **1** further enhanced the PCA result (Figure S12B). In total, 2370 DEGs, including 1659 up-regulated and 711 down-regulated, were found between **1** (40  $\mu$ M) and control groups (Table S2). KEGG (Kyoto Encyclopedia of Genes and Genomes) analysis showed that these DEGs were significantly enriched in AD ( $P$ -value =  $4.53 \times 10^{-6}$ ) and other pathways of important cellular function (Figure 2F). We further examined the effects of **1** on the mRNA expression of individual genes that were involved in  $A\beta$  production, such as *ADAM9*, *ADAM10*, *ADAM17*, which encode the proteins of  $\alpha$ -secretase shedding proteolytic processing of APP to the nonamyloidogenic pathway.<sup>16</sup> We found the mRNA levels of these genes were significantly increased in the RNA-seq data (Figure 2G). The increased expression levels of these genes could be validated by quantitative real-time PCR (Figure 2H) and Western blotting assay (Figure S13), suggesting that **1** may have the property shifting APP processing toward the  $\alpha$ -secretase pathway.

Taking all results together, we proposed the potential mechanism that **1** might be against AD by shifting APP processing toward the  $\alpha$ -secretase pathway (Figure 2I) based on the evidence as follows: (1) **1** decreased  $A\beta_{42}$  and  $A\beta_{40}$  production in U251-APP cells (Figure 2D,E). (2) The protein levels of BACE1, the first protease that processes APP in the pathway leading to the production of toxic  $A\beta$  and therefore plays a key role in the pathogenesis of AD,<sup>1a,12</sup> and the components of  $\gamma$ -secretase including NCSTN and PEN2, were decreased after **1** treatment (Figure 2B,C); (3) **1** induced *ADAM10*, *ADAM9*, and *ADAM17* expression at the mRNA (Figure 2G,H) and protein levels (Figure S13). (4) KEGG analysis showed that DEGs after compound **1** treatment were significantly enriched in the AD pathway (Figure 2F).

The current study had several limitations. First, the whole transcriptomics pathway might be activated by **1**, and the **1**-mediated *ADAM9*, *ADAM10*, and *ADAM17* might not be a specific pathway. However, unbiased KEGG pathway analysis showed DEGs were significantly enriched in AD after **1** treatment, suggesting that **1** has potential bioactivity involved in AD. Second, as **1** could also upregulate *IDE* (Table S2), the encoded protein plays an important role in  $A\beta$  clearance,<sup>17</sup> and we could not exclude a possibility that the reduction of  $A\beta$  was

caused by the effect on increased clearance rather than APP processing, or at least together with APP processing. The specific mechanism of **1** in the context of more complex associations is worthy of in-depth study. Third, it is worth mentioning that in the pathophysiology of AD, in addition to the level of free  $A\beta$ , the amount of oligomers and plaques is also critical. In this study, we propose that **1** might inhibit the production of  $A\beta_{42}$  and  $A\beta_{40}$ , and thereby blocking the formation of plaques. We could not exclude a possibility that this effect was caused by **1** via directly binding to  $A\beta$  oligomers. It would be rewarding to perform a focused study to test whether this compound could directly bind to  $A\beta$  oligomers and inhibit the plaques formation in the future.

## ■ ASSOCIATED CONTENT

### SI Supporting Information

The Supporting Information is available free of charge at <https://pubs.acs.org/doi/10.1021/acs.orglett.0c03460>.

Detailed isolation procedures; 1D and 2D NMR, HRESI MS, and IR spectra; X-ray crystallographic data; bioassay methods and results (PDF)

### Accession Codes

CCDC 2028648 contains the supplementary crystallographic data for this paper. These data can be obtained free of charge via [www.ccdc.cam.ac.uk/data\\_request/cif](http://www.ccdc.cam.ac.uk/data_request/cif), or by emailing [data\\_request@ccdc.cam.ac.uk](mailto:data_request@ccdc.cam.ac.uk), or by contacting The Cambridge Crystallographic Data Centre, 12 Union Road, Cambridge CB2 1EZ, UK; fax: +44 1223 336033.

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## Notes

The authors declare no competing financial interest.

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## **Supplementary Information**

### **Harpertrioate A, an A,B,D-seco-Limonoid, with Promising Biological Activity against Alzheimer's disease from twigs of *Harrisonia perforata* (Blanco) Merr.**

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## Contents

<b>Materials and methods .....</b>	<b>2</b>
General experimental procedures .....	2
Plant material.....	2
Extraction and Isolation.....	3
Analysis Method.....	3
Cell cultures, and treatment.....	4
RNA extraction, RNA sequencing (RNA-seq).....	4
Quantitative real-time PCR .....	5
Western blot analysis.....	5
A $\beta$ ELISA analysis .....	6
References .....	6
<b>X-ray crystallographic data .....</b>	<b>8</b>
Table S1 . X-ray crystallographic data for Harpertrioate A ( <b>1</b> ).....	10
<b>Original spectroscopic data .....</b>	<b>12</b>
Figure S1 $^1\text{H}$ NMR(500 MHz) spectrum of Harpertrioate A ( <b>1</b> ) in DMSO- <i>d</i> 6.....	12
Figure S2 $^{13}\text{C}$ NMR(125 MHz) spectrum of Harpertrioate A ( <b>1</b> ) in DMSO- <i>d</i> 6.....	12
Figure S3 $^1\text{H}$ - $^1\text{H}$ COSY(500 MHz) spectrum of Harpertrioate A ( <b>1</b> ) in DMSO- <i>d</i> 6.....	13
Figure S4 HSQC(500 MHz) spectrum of Harpertrioate A ( <b>1</b> ) in DMSO- <i>d</i> 6 .....	13
Figure S5 HMBC(500 MHz) spectrum of Harpertrioate A ( <b>1</b> ) in DMSO- <i>d</i> 6 .....	14
Figure S6 ROESY(500 MHz) spectrum of Harpertrioate A ( <b>1</b> ) in DMSO- <i>d</i> 6.....	14
Figure S7 HRESIMS spectrums of Harpertrioate A ( <b>1</b> ).....	15
Figure S8 CD spectrum of Harpertrioate A ( <b>1</b> ) .....	16
Figure S9 IR spectrum of Harpertrioate A ( <b>1</b> ).....	17
.....	18
Figure S10 UPLC-HRESI (+)-MS chromatogram of ethanolic crude extract of the title plant.	18
<b>Bioassay .....</b>	<b>19</b>
Table S2 Differentially expressed genes (DEGs; N =2370, identified by RNA-seq) in U251-APP cells treated with compound <b>1</b> at the concentration of 40 $\mu\text{M}$ .....	19
Table S3 Primer pairs for measuring mRNA levels of the targeted genes in U251-APP cells	75
Figure S11 The A $\beta$ 42/A $\beta$ 40 ratio in culture supernatant of U251-APP cells treated with <b>1</b> or Gemfibrozil.. .....	76
Figure S12 RNA-sequencing of U251-APP cells treated with or without <b>1</b> . .....	77
Figure S13 Treatment of Compound <b>1</b> caused an increased protein level of ADAM9, ADAM17 and ADAM10 in U251-APP cells .....	78

# Materials and methods

## General experimental procedures

Melting points were obtained on an X-4 micro melting point apparatus. Optical rotation measurements were conducted with a Jasco P-1020 automatic polarimeter. CD spectra were determined on the Applied Photophysics circular dichroism spectrometer (Applied Photophysics, Leatherhead, Surrey, UK). IR spectra were recorded on a NICOLET iS107 Mid-infrared spectrometer. High-resolution MS data were performed on an Agilent 1290 UPLC/6540 Q-TOF mass spectrometer in positive mode.  $^1\text{H}$ ,  $^{13}\text{C}$ ,  $^1\text{H}-^1\text{H}$  COSY, HSQC, HMBC and ROESY spectra were collected on Bruker DRX-500 instruments (Bruker, Bremerhaven, Germany). Semi-preparative HPLC separations were performed on an Agilent 1260 liquid chromatograph (Agilent Technologies, USA) with a Waters XSelect CSH C-18 column (5  $\mu\text{m}$ , 10  $\times$  250 mm). Analytical TLC systems were carried out on silica gel 60 F254 plates (Qingdao Marine Chemical Inc., Qingdao, China). Column chromatography (CC) was performed using silica gel (200-300 mesh and 60-80 mesh, Qingdao Marine Chemical, Inc., Qingdao, China) and Sephadex LH-20 (40 – 70  $\mu\text{m}$ , Amersham Pharmacia Biotech AB, Uppsala, Sweden). Lichroprep RP-18 gel (40 – 63  $\mu\text{m}$ ; Merck, Darmstadt, Germany). And spots were visualized by heating silica gel plates sprayed with 5%  $\text{H}_2\text{SO}_4$  in EtOH; Waters UPLC/Vion IMS QTof (Waters, USA) was used for detecting compound **1** in the crude ethanol extract of the title plant.

## Plant material

The branches of *Harrisonia perforata* (Blanco) Merr. were collected from Hainan Province, China, in January 2018. The plant samples were identified by Prof. Sheng-Zhuo Huang from Institute of Tropical Biotechnology, Chinese Academy of Tropical Agricultural Science. A voucher specimen (NO. 20180104) was deposited at the State Key Laboratory of Phytochemistry and Plant Resource in West China, Kunming Institute of Botany, Chinese Academy of Science (CAS).

## **Extraction and Isolation.**

The air-dried powder of the plant material (100 kg) was extracted with 95% EtOH under reflux thrice. The crude extract was obtained by reflux. After suspension in water, the combined extract was successively partitioned with petroleum ether, and ethyl acetate. The ethyl acetate extract (980 g) was then subjected to MCI gel column eluted with MeOH-H<sub>2</sub>O (3:7 to 10:0) to give five major fractions (Fr1–Fr5). Fr4 (8.5 g) was then chromatographed on a silica gel column eluted with PE-EtOAc (from 1:0 to 1:1), to give five subfractions (Fr4-1- Fr4-5). The fraction Fr4-2 (2.2 g) was subjected to a C18 silica gel column (MeOH/H<sub>2</sub>O 3:7 to 10: 0) and further purified by Sephadex LH-20 (MeOH) and semipreparative HPLC (CH<sub>3</sub>CN/H<sub>2</sub>O, 32:68) to obtain Harpertrioate A (17 mg).

## **Analysis Method.**

### **1. Chromatographic conditions**

Waters ACQUITY UPLC BEH C18 (1.7 μm, 2.1×100 mm) column; mobile phase: acetonitrile (B) and 0.1% formic acid water (A); gradient elution conditions, 0~8 min (15% B~40% B), 8~10 min (40%~60% B), 10~18 min (60% B~90% B), 18~20 min (95% B), 20 min~23 min (15% B); The flow rate is 0.4 mL min<sup>-1</sup>; the column temperature is 60 °C; the injection volume is 1 μL (Only the first ten minutes).

### **2. Mass spectrometry conditions**

Ion source: electrospray ion source (ESI); detection mode: positive ion mode; mass scanning range m/z is 50 ~ 1000. Capillary voltage: 3.0 kV (+); ion source temperature: 120 °C (+); cone gas flow is nitrogen; flow rate is 50 L H<sup>-1</sup>; desolvent gas flow rate: 800 L H<sup>-1</sup>(+); Desolvantizing gas temperature: 450 °C (+).

## **Cell cultures, and treatment**

The U251-APP cells were created in the Kunming Institute of Zoology, Chinese Academy of Science (CAS). The cells were cultured in Roswell RPMI-1640 medium (HyClone, C11875500BT) supplemented with 10% fetal bovine serum (Gibco-BRL, 10099-141) at 37 °C in a humidified atmosphere incubator with 5% CO<sub>2</sub> and 95% humidity, as described in our previous studies.<sup>1</sup> Cells were seeded in pre-warmed growth medium in 6-well plates. Gemfibrozil was purchased as indicated (Abcam, ab142883) and was used a positive control. Drugs were applied directly to the culture medium for treatment, and cells were harvested at 24 h after drug treatment.

## **RNA extraction, RNA sequencing (RNA-seq)**

Total RNA was extracted by using the RNAeasy kit (TianGen, co.td.) according to the manufacturer's instructions. The A260/A280 ratio of total RNA was measured on a NanoDrop biophotometer (Thermo Fisher Scientific), and only samples with a value of 1.8–2.0 were used for subsequent experiments. Quality and integrity of RNA samples were also evaluated based on the 28S and 18S rRNA bands on a 1% agarose gel.

About 1.5 µg total RNA per sample was used to prepare library for RNA-seq. Sequencing libraries were generated using the NEB NextUltra TM RNA Library Prep kit for Illumina (NEB, USA) following the manufacturer's recommendation and index codes were added to attribute sequence to each sample. The processed final library was sequenced on an IlluminaHiseq 4000 platform, and 150 bp paired-ends reads were generated. The raw sequencing reads were first processed by Trimmomatic (version 0.38) software <sup>2</sup> to remove the adapter sequences and low-quality sequences using the following parameters “LEADING:3 TRAILING:3 SLIDINGWINDOW:4:15MINLEN: 36”. After reads filtering, the clean reads were aligned to the mouse reference genome GRCm38 (<https://www.ncbi.nlm.nih.gov/grc/mouse>) using STAR (version 2.6.0c).<sup>3</sup> Next, the aligned reads in bam format generated by STAR were subjected to featureCounts function of the Subread software package (version 1.5.1)<sup>4</sup> to assign and count the

uniquely mapped fragments to genes according to the annotation file of GRCm38. We use rlogTransformation function of R package DESeq2<sup>5</sup> to normalize and scale reads counts that generated in previous step, this function transforms the count data to the log<sub>2</sub> scale in a way which minimizes differences between samples for rows with small counts, and which normalizes with respect to library size. Principle component analysis (PCA) and differential expression analysis were performed using the DESeq2 R package<sup>5</sup> based on the normalized count. Differential expression were tested by DESeq2, *P* value were adjusted (p.adjust) by Benjamini & Hochberg (BH) method, genes were identified as differentially expressed between different condition if p.adjust < 0.05. Gene Ontology (GO) enrichment and Kyoto Encyclopedia of Genes and Genomes (KEGG) pathway enrichment analyses were performed using R package clusterProfiler<sup>6</sup> with the differentially expressed genes calculated by DESeq2 as input. Gene expression changes of ADpathway was visualized by R package Pathview.<sup>7</sup>

## Quantitative real-time PCR

Total RNA was isolated from U251-APP cells treated with or without compound **1** using TRIZOL (Invitrogen, 15596-018). Total RNA (1.5 µg) was used to synthesize single-strand cDNA using the M-MLV Reverse Transcriptase (Promega, M170A) in a final volume of 25 µL according to the manufacturer's instructions. The relative mRNA levels of *ADAM10*, *ADAM9* and *ADAM17* were quantified by using quantitative real-time PCR, with normalization to the *GAPDH* gene. The quantitative real-time PCR was performed in a total volume of 20 µL containing 2 µL of diluted products, 10 µL of SYBR Master Mix (Takara), 0.2 uL 10 µM each primer (Table S3), on an BIO-RAD Real-time PCR detection system. The quantitative real-time PCR thermal cycling conditions were composed of a denaturation cycle at 95 °C for 5 min, followed by 40 cycles of 95 °C for 10 s and 58 °C for 30 sec.

## Western blot analysis

Western blotting for target proteins was performed using the common approach as described in our previous studies.<sup>1a,8</sup> In brief, cell lysates of cultured U251-APP cells

were prepared using the protein lysis buffer (Beyotime Institute of Biotechnology, P0013). Protein concentration was determined using the BCA protein assay kit (Beyotime Institute of Biotechnology, P0012). A total of 20 µg protein was separated by 12% sodium dodecyl sulfate polyacrylamide gel electrophoresis, and was transferred to a polyvinylidene difluoride membrane (Bio-Rad, L1620177 Rev D). The membrane was soaked with 5% (w: v) skim milk for 2 h at room temperature. The membrane was incubated with primary antibodies (GAPDH, glyceraldehyde-3-phosphate dehydrogenase [Proteintech, 12990]; BAEC1 [Cell Signaling Technology, 5606]; PSEN1 [Cell Signaling Technology, 5643]; PSEN2 [Cell Signaling Technology, 9979], NICSTN [Cell Signaling Technology, 5665]; PEN2 [Cell Signaling Technology, 8598], APH-1 [GeneTex, GTX79306]), ADAM17 [ABclonal, A0821], ADAM10 [ABclonal, A10438] and ADAM9 [ABclonal, A5388] overnight at 4 °C. The membranes were washed 3 times with TBST (Tris-buffered saline [Cell Signaling Technology, 9997] with Tween 20 [0.1%; Sigma, P1379]), each time 5 min, followed by incubation with the peroxidase-conjugated anti-mouse (474–1806) or antirabbit (474–1516) IgG (1:5000; KPL) for 1 h at room temperature. The epitope was visualized using an ECL western blot detection kit (Millipore, WBKLS0500). ImageJ software (National Institutes of Health, Bethesda, Maryland, USA) was used to evaluate the densitometry. Western blot for GAPDH was used as a loading control to measure the densitometry of target gene.

## A $\beta$ ELISA analysis

The levels of A $\beta$ 40/A $\beta$ 1–40 and A $\beta$ 42/A $\beta$ 1–42 in supernatant of U251-APP cells were measured using commercial ELISA kits (Elabscience, E-EL-H0542c to detect A $\beta$ 40, and E-EL-H0543c to detect A $\beta$ 42), as described in our recent study.<sup>1a</sup> The ELISA was performed for A $\beta$ 40 and A $\beta$ 42 according to the manufacturer's instructions.

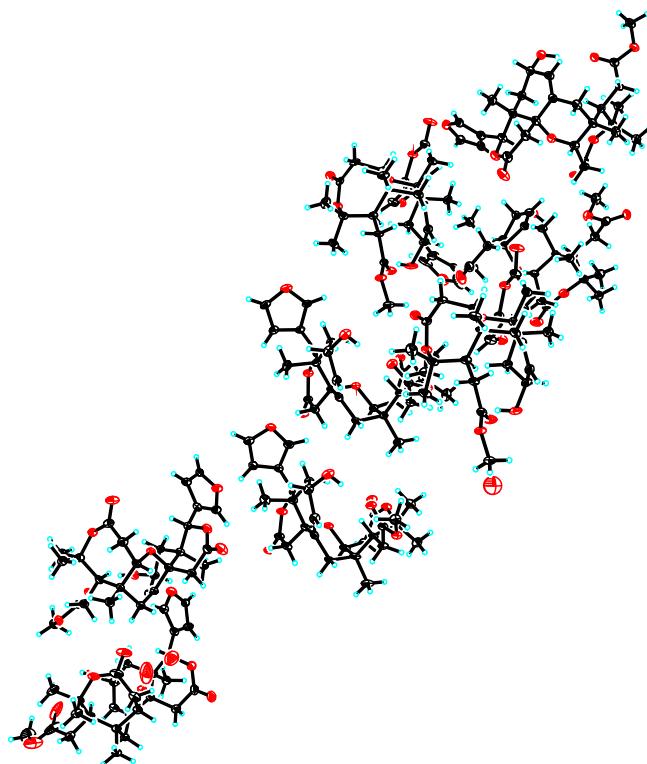
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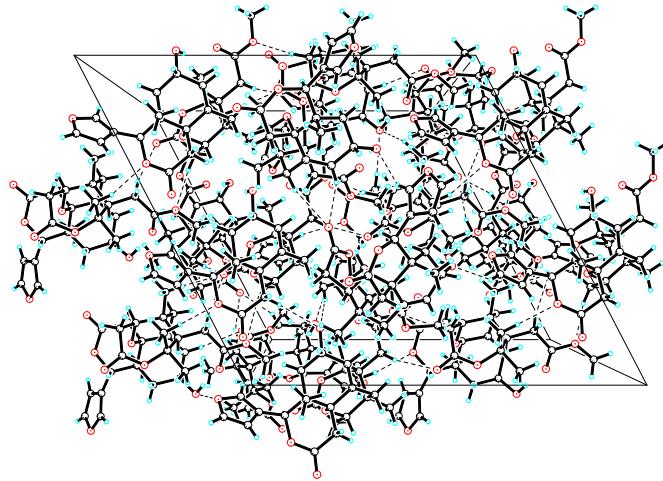
## X-ray crystallographic data

**Single crystal culture and confirmation:** First, compound **1** was added to a bottle and dissolved by the addition of acetone/water (10:1). Then, the bottle was sealed with parafilm, which only reserves two tiny holes on it, then remained at room temperature for 3 days. Some crystals appeared, and for single crystal parsing, crystals were selected with sizes of 0.40m x 0.07m x 0.04m. All diffraction data were obtained on a Bruker Smart Apex CCD diffractometer equipped with graphite-monochromated Mo  $K\alpha$  radiation. CCDC-2028648 (**1**), contain the supplementary crystallographic data. These data can be obtained free of charge from the Cambridge Crystallographic Data Centre (<http://www.ccdc.cam.ac.uk/>). Thermal ellipsoids are shown at the 30% level.



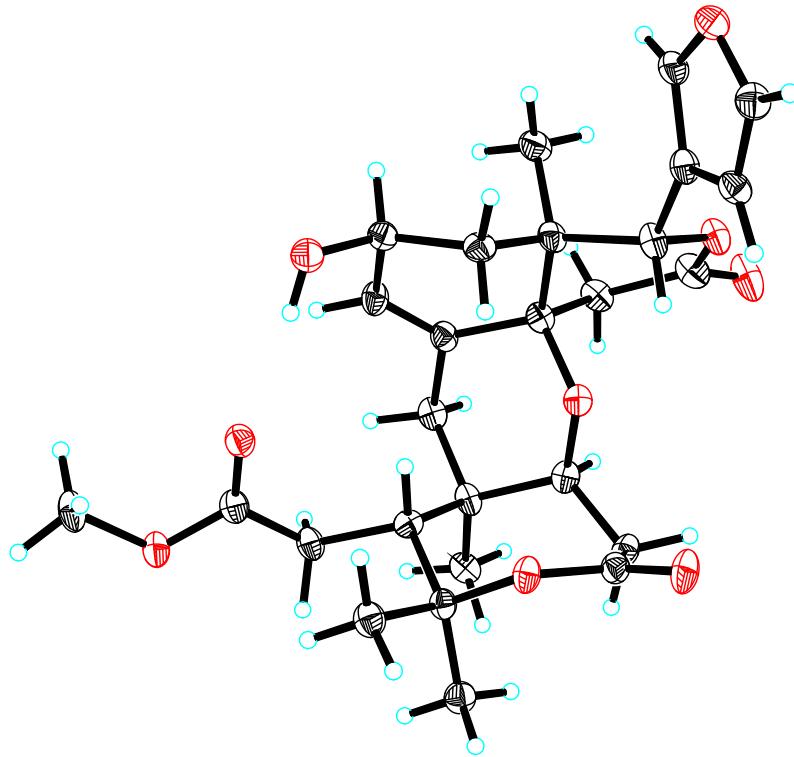
View of the molecules in an asymmetric unit.

Displacement ellipsoids are drawn at the 30% probability level.



View of the pack drawing of Compound **1**.

Hydrogen-bonds are shown as dashed lines.



View of a molecule of Compound **1** with the atom-labelling scheme.

Displacement ellipsoids are drawn at the 30% probability level.

**Table S1. X-ray crystallographic data for Harpertrioate A (1)**

Empirical formula	$C_{216} H_{278} O_{75}$		
Formula weight	4074.37		
Temperature	100(2) K		
Wavelength	1.54178 Å		
Crystal system	Monoclinic		
Space group	P 1 21 1		
Unit cell dimensions	$a = 16.5177(5)$ Å	$\alpha = 90^\circ$	
	$b = 38.5716(13)$ Å	$\beta = 117.4970(10)^\circ$	
	$c = 17.8805(5)$ Å	$\gamma = 90^\circ$	
Volume	$10105.0(5)$ Å <sup>3</sup>		
Z	2		
Density (calculated)	1.339 Mg/m <sup>3</sup>		
Absorption coefficient	0.839 mm <sup>-1</sup>		
F(000)	4348		
Crystal size	0.400 x 0.070 x 0.040 mm <sup>3</sup>		
Theta range for data collection	2.29 to 72.40 °		
Index ranges	-20<=h<=20, -47<=k<=47, -22<=l<=22		
Reflections collected	201545		
Independent reflections	39786 [R(int) = 0.0961]		
Completeness to theta = 72.40 °	99.8 %		
Absorption correction	Semi-empirical from equivalents		
Max. and min. transmission	0.97 and 0.78		
Refinement method	Full-matrix least-squares on F <sup>2</sup>		
Data / restraints / parameters	39786 / 24 / 2664		
Goodness-of-fit on F <sup>2</sup>	1.028		
Final R indices [I>2sigma(I)]	R1 = 0.0558, wR2 = 0.1466		
R indices (all data)	R1 = 0.0623, wR2 = 0.1545		
Absolute structure parameter	0.00(5)		
Largest diff. peak and hole	0.848 and -0.420 e.Å <sup>-3</sup>		

## Physical data of Harpertrioate A

**Harpertrioate A (1):** colorless block crystal; mp 210–212 °C ;  $[\alpha]^{27}_D -2.83$  (*c* 0.14, MeOH); IR (KBr)  $\nu_{\text{max}}$  3436, 2984, 2953, 2926, 2896, 2853, 1727, 1631, 1461, 1436, 1384, 1248, 1213, 1168, 1122, 1032, 990 cm<sup>-1</sup>; <sup>1</sup>H NMR and <sup>13</sup>C NMR data, see Table 1; HRMS (ESI) *m/z* 525 [M + Na]<sup>+</sup> calcd for C<sub>27</sub>H<sub>34</sub>O<sub>9</sub>Na 525.2095, found 525.2097.

## Original spectroscopic data

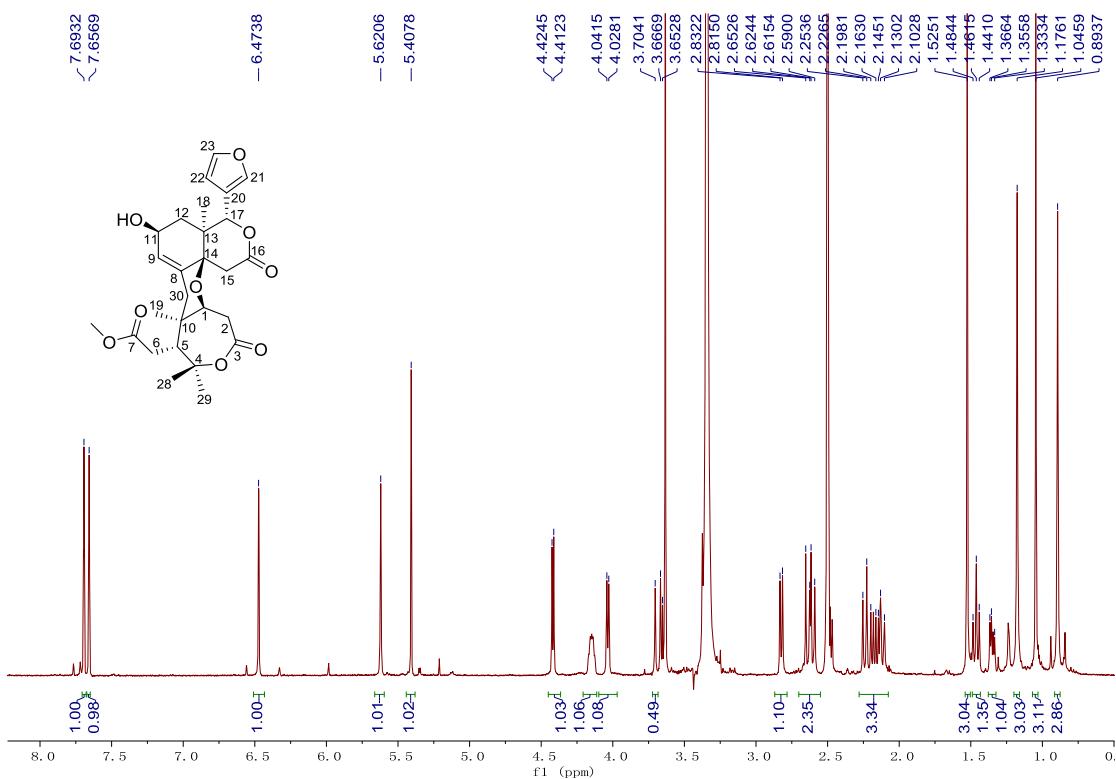


Figure S1 <sup>1</sup>H NMR(500 MHz) spectrum of Harpertrioate A (1) in DMSO-*d*6

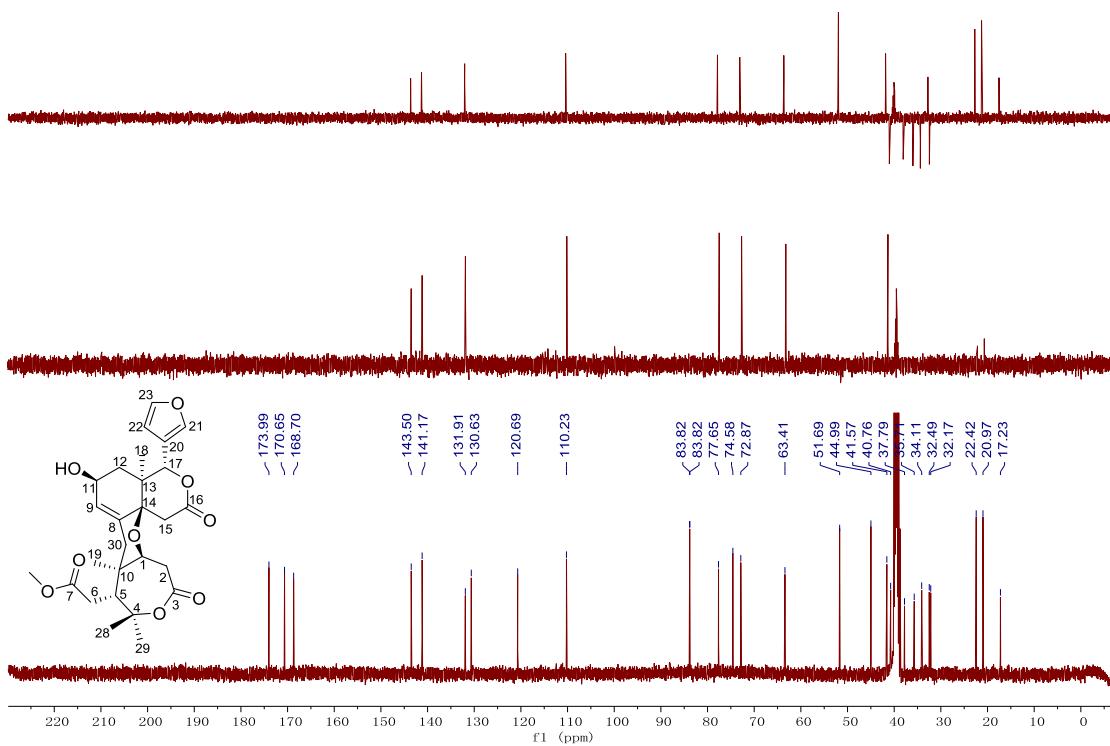
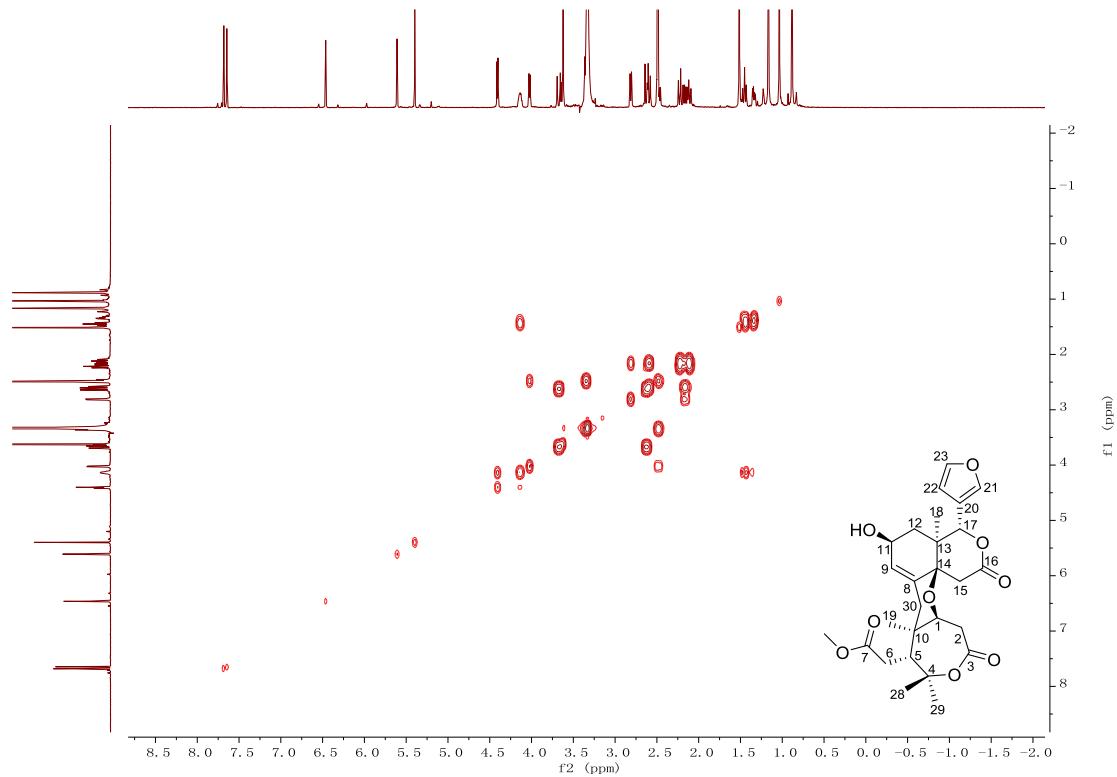
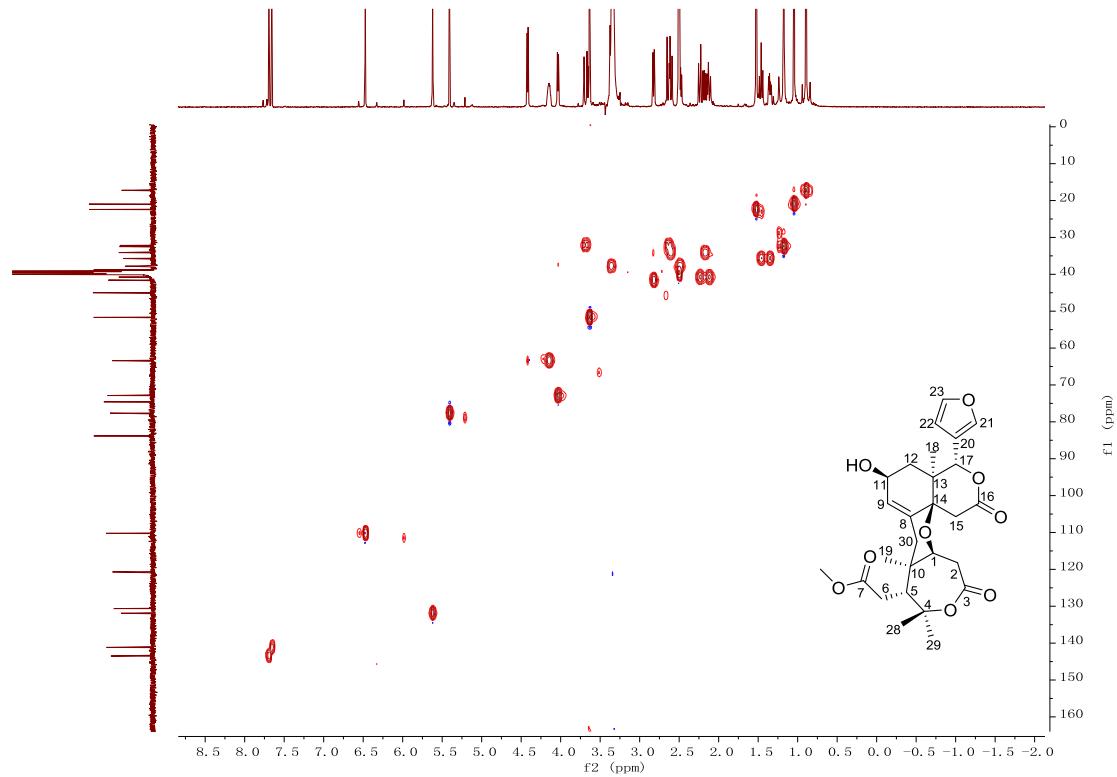


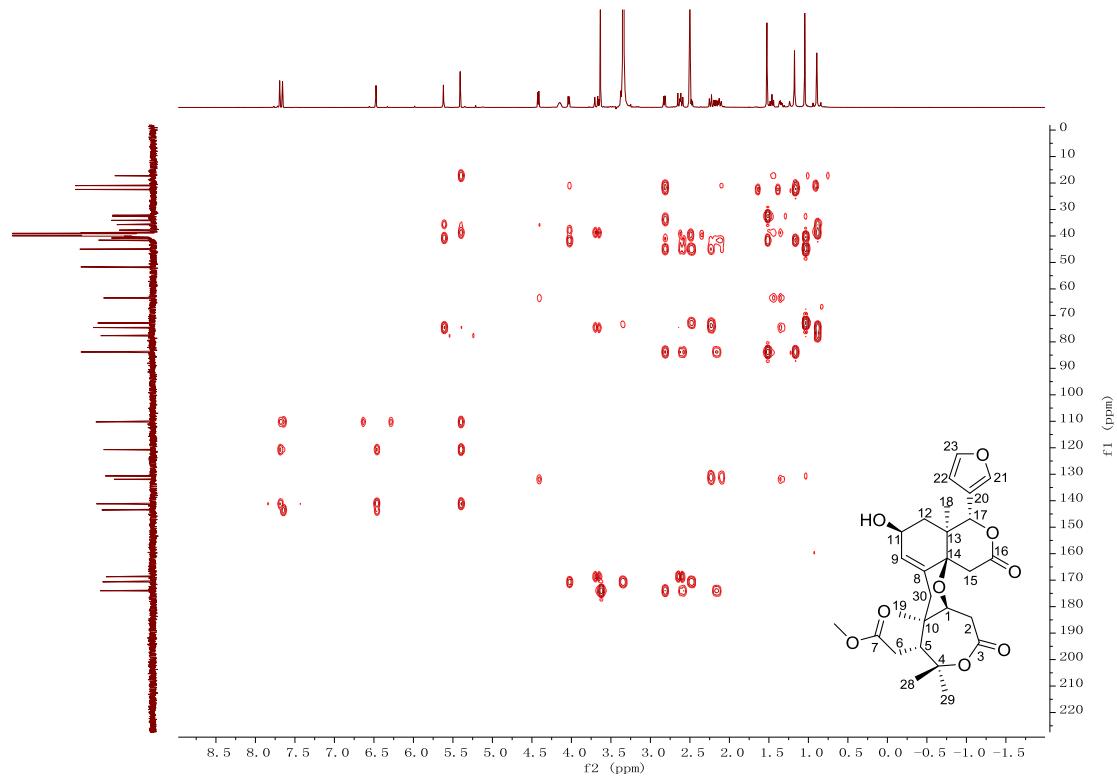
Figure S2 <sup>13</sup>C NMR(125 MHz) spectrum of Harpertrioate A (1) in DMSO-*d*6



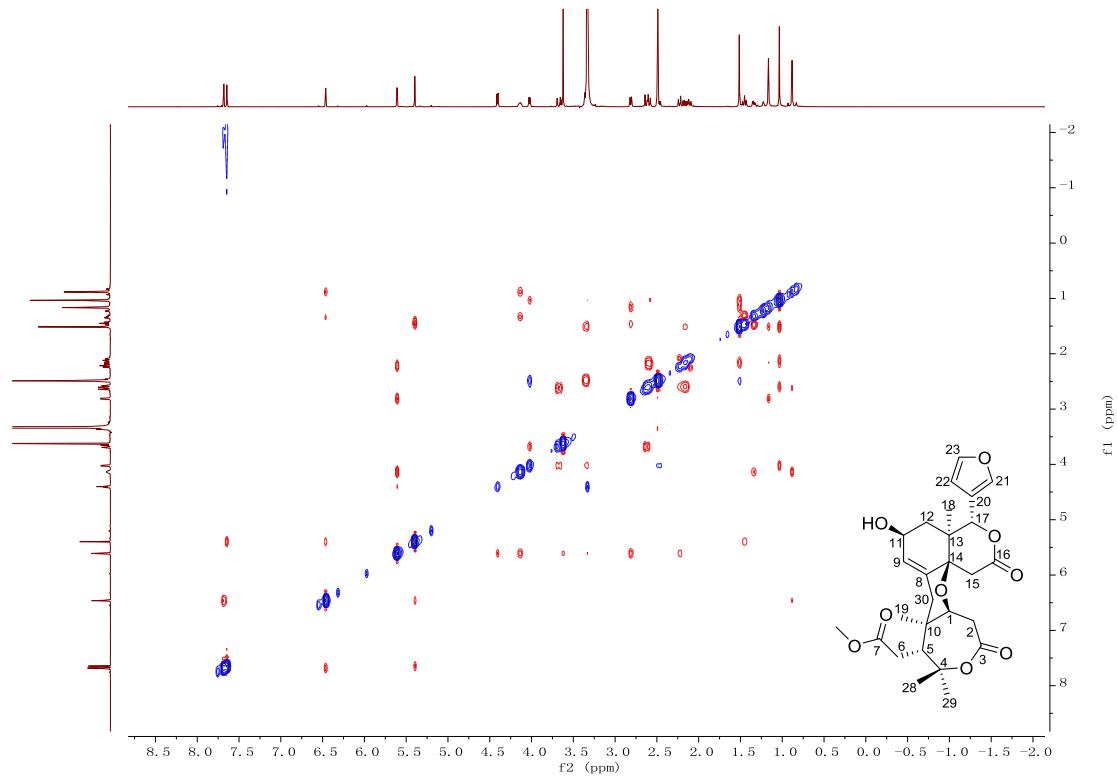
**Figure S3**  $^1\text{H}$ - $^1\text{H}$  COSY(500 MHz) spectrum of Harpertrioate A (**1**) in  $\text{DMSO}-d_6$



**Figure S4** HSQC(500 MHz) spectrum of Harpertrioate A (**1**) in  $\text{DMSO}-d_6$



**Figure S5** HMBC(500 MHz) spectrum of Harpertrioate A (**1**) in  $\text{DMSO}-d_6$



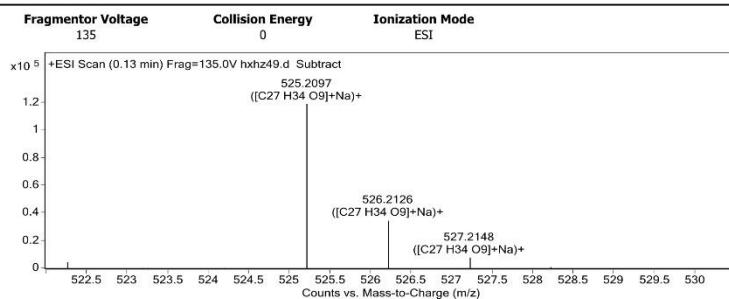
**Figure S6** ROESY(500 MHz) spectrum of Harpertrioate A (**1**) in  $\text{DMSO}-d_6$

## Qualitative Analysis Report

<b>Data Filename</b>	hxhz49.d	<b>Sample Name</b>	hxhz49
<b>Sample Type</b>	Sample	<b>Position</b>	P1-A3
<b>Instrument Name</b>	Instrument 1	<b>User Name</b>	
<b>Acq Method</b>	s.m	<b>Acquired Time</b>	7/17/2019 2:28:15 PM
<b>IRM Calibration Status</b>	Success	<b>DA Method</b>	Default.m
<b>Comment</b>			

<b>Sample Group</b>	<b>Info.</b>
<b>Acquisition SW</b>	6200 series TOF/6500 series
<b>Version</b>	Q-TOF B.05.01 (B5125.2)

### User Spectra



### Peak List

m/z	z	Abund	Formula	Ion
520.254	1	54746.52		
521.257	1	16201.3		
525.2097	1	119139.62	C <sub>27</sub> H <sub>34</sub> O <sub>9</sub>	(M+Na)+
526.2126	1	35032.83	C <sub>27</sub> H <sub>34</sub> O <sub>9</sub>	(M+Na)+
548.2855	1	28758.11		
674.3147	1	30888.29		
675.3176	1	12001.37		
1027.4296	1	56334.51		
1028.4329	1	33075.89		
1029.4352	1	10828.59		

### Formula Calculator Element Limits

Element	Min	Max
C	3	120
H	0	240
O	0	30

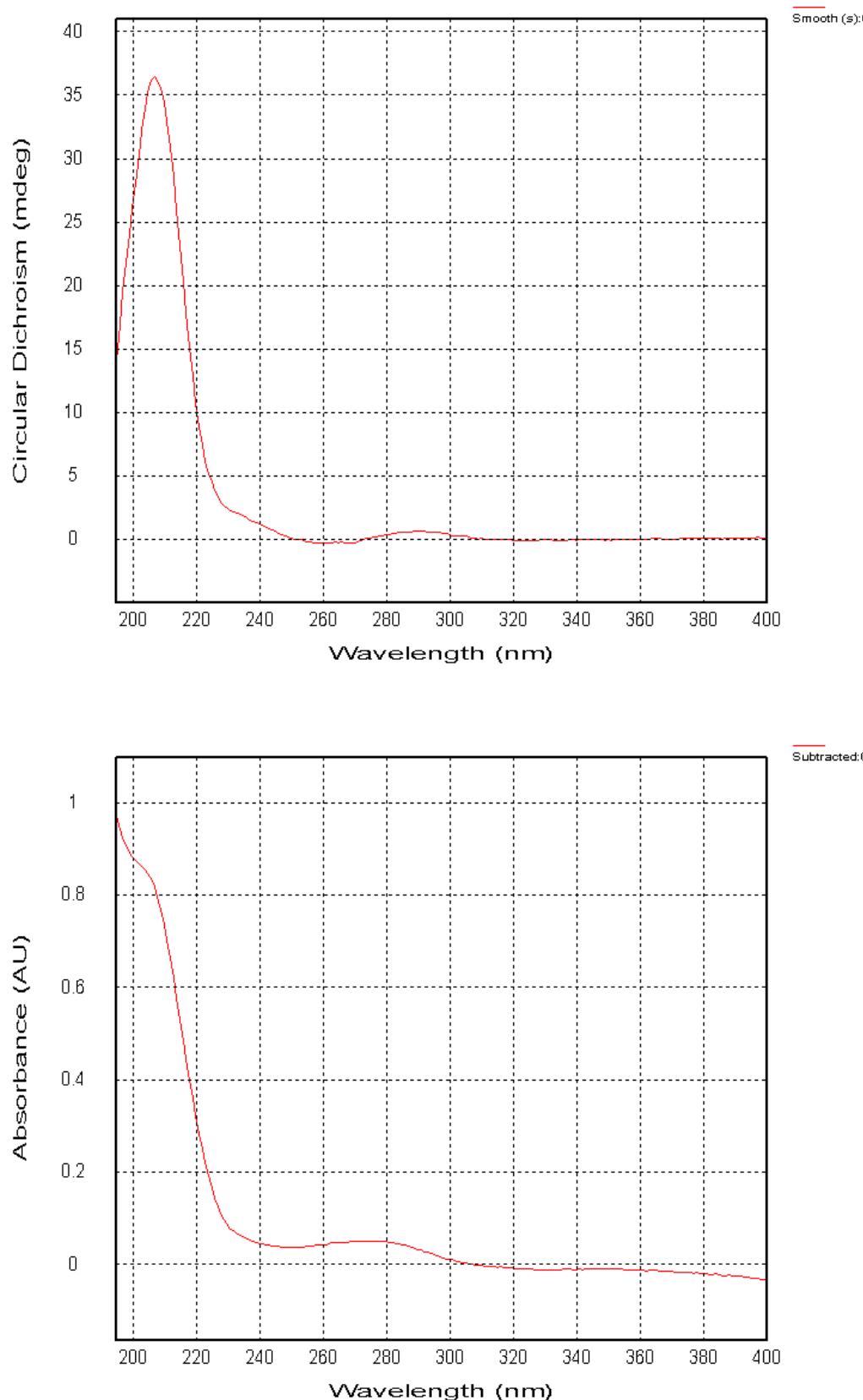
### Formula Calculator Results

Formula	CalculatedMass	CalculatedMz	Mz	Diff. (mDa)	Diff. (ppm)	DBE
C <sub>27</sub> H <sub>34</sub> O <sub>9</sub>	502.2203	525.2095	525.2097	-0.20	-0.38	11.0000

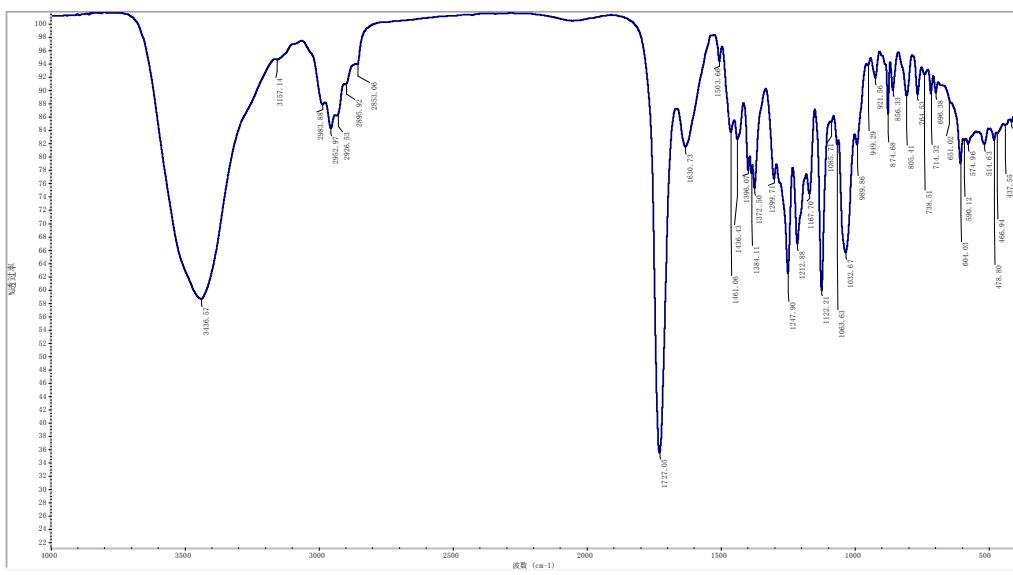
--- End Of Report ---



**Figure S7 HRESIMS spectrums of Harpertrioate A (1)**

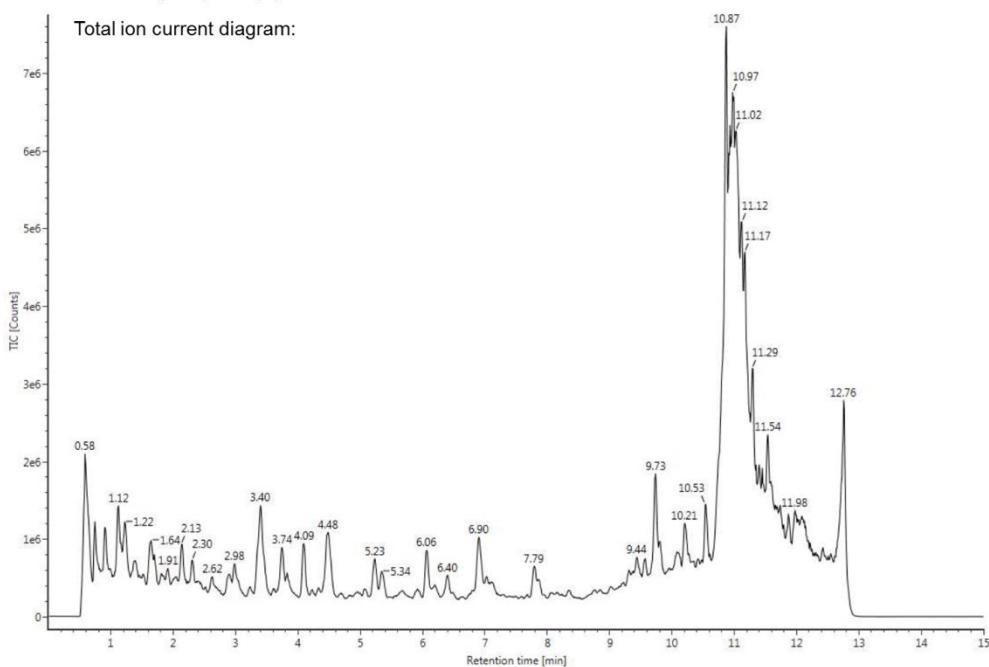
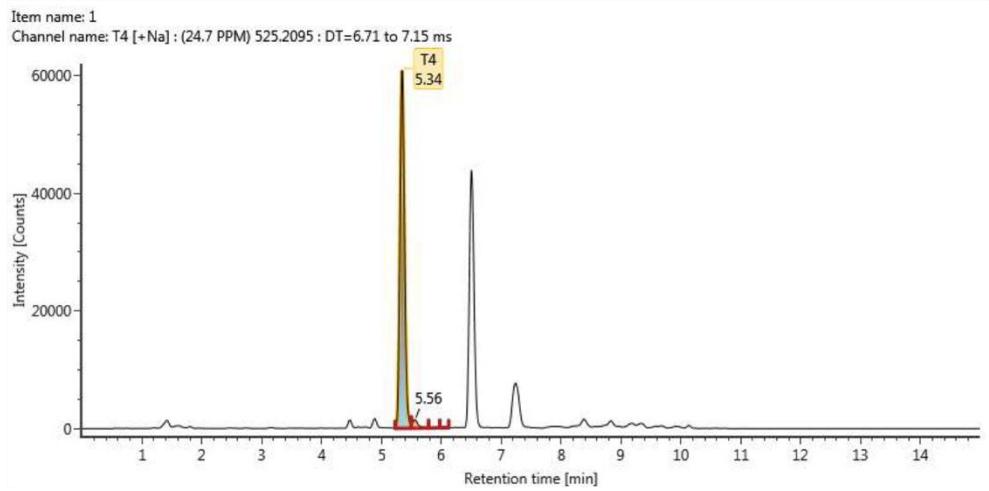


**Figure S8 CD spectrum of Harpertrioate A (1)**



**Figure S9** IR spectrum of Harpertrioate A (1)

Component name	Identification status	Observed neutral mass (Da)	Observed m/z	Mass error (mDa)	Mass error (ppm)	Observed RT (min)	Adducts
T4 (Harpertriolate A)	Identified	502.2203	525.2095	0.0	0.0	5.35	+Na



**Figure S10 UPLC-HRESI (+)-MS chromatogram of ethanolic crude extract of the title plant.**

# Bioassay

**Table S2 Differentially expressed genes (DEGs; N =2370, identified by RNA-seq) in U251-APP cells treated with compound 1 at the concentration of 40  $\mu$ M**

Gene	log2FoldChange	lfcSE	stat	pvalue	padj
<i>HINT1</i>	-0.301345529	0.040015447	-7.53073013	5.05E-14	6.24E-10
<i>NDUFA1</i>	-0.402575824	0.055810213	-7.21330032	5.46E-13	3.21E-09
<i>IFI16</i>	1.038390447	0.144931711	7.164687714	7.80E-13	3.21E-09
<i>PARK7</i>	-0.297081492	0.042107836	-7.05525432	1.72E-12	4.26E-09
<i>RPS6KA3</i>	0.797265446	0.112531519	7.084819002	1.39E-12	4.26E-09
<i>ZC3H11A</i>	0.980435828	0.140151552	6.995540282	2.64E-12	5.44E-09
<i>RBPJ</i>	0.894434511	0.129296373	6.917707687	4.59E-12	8.10E-09
<i>PICALM</i>	0.518161794	0.07552495	6.860802843	6.85E-12	9.65E-09
<i>RPL30</i>	-0.346984985	0.050713475	-6.84206688	7.81E-12	9.65E-09
<i>SAMD9L</i>	1.541691351	0.22530975	6.842541656	7.78E-12	9.65E-09
<i>HIF1A</i>	0.885334348	0.129888273	6.816122276	9.35E-12	1.05E-08
<i>FAM178A</i>	0.820800803	0.124258333	6.605599683	3.96E-11	4.08E-08
<i>NR3C1</i>	0.928298515	0.141426767	6.5638106	5.24E-11	4.99E-08
<i>SP3</i>	0.811715142	0.126039765	6.440151175	1.19E-10	1.05E-07
<i>SLC4A7</i>	1.010953884	0.157686351	6.411169256	1.44E-10	1.19E-07
<i>CLIP4</i>	0.739636991	0.116796727	6.332685936	2.41E-10	1.86E-07
<i>ATP13A3</i>	0.894423883	0.142034337	6.297237007	3.03E-10	2.20E-07
<i>HDAC9</i>	0.745512609	0.12111559	6.155381073	7.49E-10	3.86E-07
<i>AFF4</i>	0.784841938	0.12705931	6.176973096	6.53E-10	3.86E-07
<i>NUP107</i>	0.968501787	0.157053229	6.166710435	6.97E-10	3.86E-07
<i>TAOK1</i>	1.041165669	0.167969172	6.198552125	5.70E-10	3.86E-07
<i>RPL38</i>	-0.317294324	0.051542049	-6.1560285	7.46E-10	3.86E-07
<i>RPL35A</i>	-0.286692668	0.046535557	-6.16072283	7.24E-10	3.86E-07
<i>RP11</i>	-0.339304321	0.054852907	-6.18571267	6.18E-10	3.86E-07
<i>TNKS2</i>	0.811738054	0.13467957	6.027180309	1.67E-09	8.25E-07
<i>MRPL51</i>	-0.294156984	0.048966091	-6.00736094	1.89E-09	8.96E-07
<i>LNPEP</i>	0.901811107	0.15034812	5.998153514	2.00E-09	9.14E-07
<i>BIRC2</i>	0.939008984	0.156873809	5.985760092	2.15E-09	9.51E-07
<i>CUL4B</i>	0.660179965	0.111309672	5.931020691	3.01E-09	1.28E-06
<i>IDE</i>	0.917427023	0.155008555	5.918557348	3.25E-09	1.29E-06
<i>IPO7</i>	0.945184597	0.159673725	5.919474833	3.23E-09	1.29E-06
<i>POT1</i>	0.679000406	0.114985287	5.90510687	3.52E-09	1.36E-06
<i>UQCRH</i>	-0.343761097	0.05865227	-5.86100243	4.60E-09	1.72E-06
<i>TAB2</i>	0.759627905	0.130349071	5.827643412	5.62E-09	2.04E-06
<i>DDX21</i>	0.838865906	0.144311393	5.812887611	6.14E-09	2.11E-06
<i>MYEOV2</i>	-0.406997488	0.069968227	-5.81689013	6.00E-09	2.11E-06
<i>ATP5J2</i>	-0.367124832	0.063296597	-5.80007221	6.63E-09	2.21E-06

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>COX7C</i>	-0.288833866	0.04999597	-5.77714291	7.60E-09	2.47E-06
<i>KIF5B</i>	1.124174861	0.194813676	5.77051306	7.90E-09	2.50E-06
<i>RLIM</i>	0.626519076	0.108744974	5.761361242	8.34E-09	2.58E-06
<i>POLE4</i>	-0.350218094	0.060842456	-5.7561466	8.61E-09	2.59E-06
<i>PJA2</i>	0.833605564	0.145355187	5.734955736	9.75E-09	2.87E-06
<i>SHFM1</i>	-0.327780807	0.057384617	-5.71199781	1.12E-08	3.21E-06
<i>UBA6</i>	0.995844236	0.174692115	5.700567748	1.19E-08	3.35E-06
<i>CLOCK</i>	1.078954696	0.18945298	5.695105423	1.23E-08	3.39E-06
<i>SMC4</i>	1.011381231	0.178071092	5.679648607	1.35E-08	3.55E-06
<i>NDUFA12</i>	-0.397872414	0.070027793	-5.68163578	1.33E-08	3.55E-06
<i>UBR3</i>	0.956276833	0.168724127	5.667694672	1.45E-08	3.65E-06
<i>ZMYM4</i>	0.809998395	0.142848697	5.670324009	1.43E-08	3.65E-06
<i>UBR2</i>	0.749597262	0.133016033	5.635390311	1.75E-08	4.32E-06
<i>UQCC2</i>	-0.377423954	0.067165569	-5.61930706	1.92E-08	4.65E-06
<i>THOC2</i>	1.176220042	0.210357469	5.59152974	2.25E-08	5.35E-06
<i>BRK1</i>	-0.264804978	0.047514983	-5.57308371	2.50E-08	5.84E-06
<i>GNA13</i>	0.728470976	0.130904427	5.564907103	2.62E-08	6.00E-06
<i>MGEA5</i>	0.481728579	0.086910085	5.542838692	2.98E-08	6.69E-06
<i>ZZZ3</i>	0.823171615	0.149010291	5.524260151	3.31E-08	7.30E-06
<i>RPL27</i>	-0.271312281	0.04920908	-5.51345979	3.52E-08	7.63E-06
<i>ABL2</i>	0.597066372	0.108653989	5.495116905	3.90E-08	8.18E-06
<i>UBB</i>	-0.298515004	0.054303108	-5.49719921	3.86E-08	8.18E-06
<i>DCBLD2</i>	0.597900343	0.10887477	5.491633596	3.98E-08	8.20E-06
<i>WHSC1L1</i>	0.595198506	0.108574561	5.481933345	4.21E-08	8.52E-06
<i>PDS5A</i>	0.97791489	0.178627622	5.474600629	4.38E-08	8.63E-06
<i>PREPL</i>	0.974025955	0.178113161	5.468579368	4.54E-08	8.63E-06
<i>NGFRAP1</i>	-0.324324862	0.059253078	-5.47355302	4.41E-08	8.63E-06
<i>CTR9</i>	0.784590444	0.143468639	5.468724386	4.53E-08	8.63E-06
<i>TXNDC17</i>	-0.323216455	0.059143545	-5.46494893	4.63E-08	8.67E-06
<i>BARD1</i>	0.880582557	0.161337365	5.458019958	4.81E-08	8.71E-06
<i>NDUFS5</i>	-0.288983485	0.052963735	-5.45625201	4.86E-08	8.71E-06
<i>TUG1</i>	0.925816468	0.169598591	5.458868861	4.79E-08	8.71E-06
<i>EPHA3</i>	0.709651016	0.130172217	5.451631924	4.99E-08	8.80E-06
<i>CDK6</i>	0.907800626	0.166587227	5.449401141	5.05E-08	8.80E-06
<i>TRIP12</i>	0.631330609	0.115941309	5.445260298	5.17E-08	8.88E-06
<i>UBXN2B</i>	0.61044179	0.112207421	5.440297846	5.32E-08	9.01E-06
<i>SECISBP2L</i>	0.828088029	0.152301609	5.437158758	5.41E-08	9.04E-06
<i>IL6ST</i>	1.057644007	0.194916968	5.426125906	5.76E-08	9.37E-06
<i>UBXN7</i>	0.644095441	0.118697028	5.426382225	5.75E-08	9.37E-06
<i>UFC1</i>	-0.295855027	0.054578259	-5.42074875	5.93E-08	9.53E-06
<i>SPAG17</i>	0.852902464	0.157500666	5.415230829	6.12E-08	9.70E-06
<i>MAML2</i>	0.692393876	0.1280329	5.407937156	6.38E-08	9.97E-06
<i>ZBTB11</i>	1.107541776	0.20537358	5.392815267	6.94E-08	1.07E-05

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>ATP6V1A</i>	0.622405311	0.115513637	5.388154418	7.12E-08	1.09E-05
<i>UBXN4</i>	0.676871511	0.125795588	5.380725374	7.42E-08	1.09E-05
<i>RPL12P4</i>	-0.343518226	0.063818368	-5.38274857	7.34E-08	1.09E-05
<i>BAZ1A</i>	1.091937286	0.202940506	5.380578312	7.42E-08	1.09E-05
<i>NAA25</i>	0.86909798	0.161853344	5.369663413	7.89E-08	1.15E-05
<i>ACSL4</i>	0.766359922	0.142785018	5.367229234	8.00E-08	1.15E-05
<i>TOMM7</i>	-0.411328191	0.076689496	-5.36355316	8.16E-08	1.16E-05
<i>FAM208B</i>	0.796612582	0.148734143	5.355949653	8.51E-08	1.20E-05
<i>POLR2J</i>	-0.2956087	0.055383848	-5.33745326	9.43E-08	1.28E-05
<i>RPS20</i>	-0.261771366	0.049043849	-5.33749637	9.42E-08	1.28E-05
<i>STRN</i>	1.069636516	0.200316202	5.339740395	9.31E-08	1.28E-05
<i>MAP3K2</i>	0.850854225	0.159509577	5.33418897	9.60E-08	1.29E-05
<i>EIF2AK2</i>	0.883114574	0.165836484	5.325212841	1.01E-07	1.34E-05
<i>NDUFA8</i>	-0.314912516	0.059269275	-5.31325073	1.08E-07	1.42E-05
<i>PUS7L</i>	1.342009286	0.252701811	5.31064371	1.09E-07	1.42E-05
<i>SOCs4</i>	0.880717403	0.166083272	5.302866387	1.14E-07	1.47E-05
<i>SLC7A11</i>	0.910612679	0.17188225	5.297886661	1.17E-07	1.49E-05
<i>XRN1</i>	1.192517156	0.225835228	5.280474461	1.29E-07	1.63E-05
<i>SCAF11</i>	0.863745476	0.163658122	5.27774281	1.31E-07	1.63E-05
<i>MED23</i>	0.801619621	0.152232222	5.265768369	1.40E-07	1.73E-05
<i>MEF2A</i>	0.600571199	0.114206039	5.258664111	1.45E-07	1.76E-05
<i>FAM111B</i>	1.340135628	0.25485601	5.258403088	1.45E-07	1.76E-05
<i>PURB</i>	0.535237876	0.101860011	5.25464186	1.48E-07	1.78E-05
<i>ATF2</i>	0.825425784	0.157209513	5.250482413	1.52E-07	1.80E-05
<i>AKAP11</i>	1.056180751	0.201308206	5.246585673	1.55E-07	1.81E-05
<i>ZDHHC17</i>	0.980888926	0.186971088	5.24620644	1.55E-07	1.81E-05
<i>WAPAL</i>	0.635368835	0.121156938	5.244180344	1.57E-07	1.81E-05
<i>ROCK2</i>	1.113653482	0.213070739	5.226684278	1.73E-07	1.96E-05
<i>HOOK3</i>	0.933369758	0.17858311	5.226528752	1.73E-07	1.96E-05
<i>CEP135</i>	0.842884918	0.161386774	5.222763297	1.76E-07	1.98E-05
<i>ITGAV</i>	0.861189566	0.165107754	5.215924429	1.83E-07	2.02E-05
<i>UBL5</i>	-0.466980646	0.089529975	-5.21591395	1.83E-07	2.02E-05
<i>DPP8</i>	0.683651267	0.131266745	5.208107114	1.91E-07	2.07E-05
<i>LANCL1</i>	0.702673455	0.134971203	5.206099088	1.93E-07	2.07E-05
<i>IQGAPI</i>	0.734519563	0.141044481	5.207715721	1.91E-07	2.07E-05
<i>ITPR2</i>	1.490351481	0.286803095	5.196427467	2.03E-07	2.16E-05
<i>RC3H2</i>	0.641728818	0.123715533	5.187132163	2.14E-07	2.26E-05
<i>FILIP1L</i>	0.760112639	0.146835842	5.176615128	2.26E-07	2.37E-05
<i>XPO1</i>	0.717798218	0.138821434	5.170658427	2.33E-07	2.40E-05
<i>ATP5E</i>	-0.348959905	0.067487591	-5.17072696	2.33E-07	2.40E-05
<i>ZKSCAN1</i>	0.708857159	0.137314597	5.162285535	2.44E-07	2.48E-05
<i>ALCAM</i>	0.739538649	0.143270502	5.16183471	2.45E-07	2.48E-05
<i>RPS4X</i>	-0.26681636	0.051880909	-5.14286205	2.71E-07	2.72E-05

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>CAMSAP2</i>	0.953197114	0.185579058	5.136339871	2.80E-07	2.76E-05
<i>OCIAD2</i>	-0.255608669	0.049746161	-5.1382592	2.77E-07	2.76E-05
<i>UTRN</i>	0.92740173	0.180577484	5.135755089	2.81E-07	2.76E-05
<i>11-Sep</i>	0.801748969	0.156291474	5.129831767	2.90E-07	2.82E-05
<i>DBT</i>	0.913013254	0.178052654	5.127771102	2.93E-07	2.83E-05
<i>ORMDL2</i>	-0.460566946	0.089997706	-5.11754097	3.10E-07	2.95E-05
<i>ARHGAP29</i>	0.886902617	0.173314012	5.117316292	3.10E-07	2.95E-05
<i>PRKAA1</i>	0.647040317	0.126544505	5.113144325	3.17E-07	2.99E-05
<i>GPD2</i>	0.824664057	0.161367378	5.110475651	3.21E-07	3.01E-05
<i>LPP</i>	1.063011372	0.208087701	5.108477661	3.25E-07	3.02E-05
<i>CAPRINI</i>	0.439400714	0.086181927	5.098525075	3.42E-07	3.16E-05
<i>ERBB2IP</i>	0.929846527	0.182652717	5.090789466	3.57E-07	3.24E-05
<i>MAN2A1</i>	0.79002452	0.155185196	5.090849789	3.56E-07	3.24E-05
<i>HSPA4L</i>	0.877974642	0.172594955	5.086907895	3.64E-07	3.28E-05
<i>WDFY3</i>	0.920961837	0.18110732	5.085171797	3.67E-07	3.29E-05
<i>CHD9</i>	1.081075931	0.213024958	5.07487922	3.88E-07	3.45E-05
<i>APPL1</i>	0.741974248	0.146298692	5.071639648	3.94E-07	3.48E-05
<i>PANK3</i>	0.743285876	0.146733794	5.065539816	4.07E-07	3.57E-05
<i>SRD5A3</i>	-0.277467059	0.054809539	-5.06238626	4.14E-07	3.59E-05
<i>LRRC58</i>	0.970754941	0.19183646	5.060325551	4.19E-07	3.59E-05
<i>EPM2AIP1</i>	0.912750695	0.180347789	5.061058426	4.17E-07	3.59E-05
<i>CD2AP</i>	1.019389695	0.201736312	5.053079849	4.35E-07	3.71E-05
<i>NFAT5</i>	0.873872343	0.173028126	5.050464129	4.41E-07	3.73E-05
<i>USP32</i>	0.586265263	0.116244118	5.043397227	4.57E-07	3.85E-05
<i>SLC25A36</i>	0.802503942	0.159198407	5.040904348	4.63E-07	3.85E-05
<i>RP11-488C13.1</i>	-0.416660464	0.082659717	-5.04067129	4.64E-07	3.85E-05
<i>TRIM2</i>	0.765290566	0.15200147	5.034757677	4.78E-07	3.90E-05
<i>MAP3K7</i>	0.61801924	0.122722572	5.035905209	4.76E-07	3.90E-05
<i>APOOL</i>	0.872642458	0.173334616	5.034438476	4.79E-07	3.90E-05
<i>TIMM23</i>	-0.311181429	0.06184626	-5.03153193	4.87E-07	3.93E-05
<i>FAM19B</i>	0.856873017	0.170392595	5.028816062	4.94E-07	3.96E-05
<i>MET</i>	0.657597153	0.130876752	5.0245528	5.05E-07	4.01E-05
<i>TTC3</i>	1.032711393	0.205549977	5.024137725	5.06E-07	4.01E-05
<i>USP24</i>	0.928552868	0.184975604	5.019866661	5.17E-07	4.07E-05
<i>PARP14</i>	0.954894658	0.1907331	5.006444391	5.54E-07	4.34E-05
<i>ZNF638</i>	1.153082741	0.230398951	5.004722184	5.59E-07	4.35E-05
<i>DHX9</i>	0.511209547	0.102193098	5.002388215	5.66E-07	4.37E-05
<i>SACS</i>	0.944236291	0.188789749	5.001523109	5.69E-07	4.37E-05
<i>MYCBP2</i>	1.118178787	0.223623368	5.000277021	5.72E-07	4.37E-05
<i>LMBRD2</i>	1.041587397	0.208516597	4.995225375	5.88E-07	4.46E-05
<i>NDUFS6</i>	-0.374047649	0.074898938	-4.99403142	5.91E-07	4.46E-05
<i>UHMK1</i>	0.767126312	0.153650511	4.992670083	5.96E-07	4.46E-05
<i>ANGEL2</i>	0.679808652	0.136214671	4.99071537	6.02E-07	4.48E-05

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>HAUS6</i>	0.983764041	0.197399753	4.983613346	6.24E-07	4.62E-05
<i>RTFDC1</i>	-0.243223515	0.048818496	-4.98220009	6.29E-07	4.63E-05
<i>DENND4C</i>	0.986801019	0.19832555	4.975662593	6.50E-07	4.76E-05
<i>PIKFYVE</i>	1.08392935	0.218115817	4.96951283	6.71E-07	4.88E-05
<i>ARID5B</i>	0.603312442	0.121470379	4.96674537	6.81E-07	4.92E-05
<i>RANBP2</i>	1.381675918	0.278243383	4.965709888	6.85E-07	4.92E-05
<i>ZYG11B</i>	0.726552486	0.146371276	4.963764102	6.91E-07	4.94E-05
<i>ITGB8</i>	0.85606667	0.17261376	4.959434681	7.07E-07	5.02E-05
<i>PDE1C</i>	0.391667998	0.079010363	4.9571725	7.15E-07	5.05E-05
<i>KIDINS220</i>	0.737903344	0.149051869	4.950648058	7.40E-07	5.19E-05
<i>MKLN1</i>	0.774485686	0.156671815	4.943363219	7.68E-07	5.36E-05
<i>ECT2</i>	1.014640459	0.205699442	4.932635923	8.11E-07	5.63E-05
<i>MOB1B</i>	0.922671565	0.187117316	4.930979055	8.18E-07	5.65E-05
<i>CHD1</i>	1.143604618	0.232070976	4.927822681	8.32E-07	5.71E-05
<i>KTN1</i>	1.047346058	0.212750465	4.922884941	8.53E-07	5.82E-05
<i>NF1</i>	0.657946856	0.133685533	4.921601039	8.58E-07	5.83E-05
<i>VPS13C</i>	1.40431639	0.285559912	4.917764473	8.75E-07	5.88E-05
<i>SMARCA5</i>	0.688054873	0.139893283	4.918426821	8.72E-07	5.88E-05
<i>PTBP3</i>	0.711594562	0.144847048	4.912730865	8.98E-07	5.97E-05
<i>PHC3</i>	0.772546192	0.157228996	4.913509674	8.95E-07	5.97E-05
<i>TEAD1</i>	0.737168296	0.150119097	4.910556437	9.08E-07	6.00E-05
<i>USMG5</i>	-0.320577895	0.065313665	-4.90828216	9.19E-07	6.04E-05
<i>BCLAF1</i>	0.910717383	0.185699923	4.904242112	9.38E-07	6.11E-05
<i>ATG2B</i>	0.998063808	0.20352436	4.903903437	9.40E-07	6.11E-05
<i>PDE8A</i>	0.523354354	0.106868014	4.897202939	9.72E-07	6.26E-05
<i>DST</i>	1.282255879	0.261779478	4.898229178	9.67E-07	6.26E-05
<i>SEMA3A</i>	0.803054309	0.164101702	4.893637889	9.90E-07	6.34E-05
<i>AKAP12</i>	0.601497511	0.123171627	4.883409629	1.04E-06	6.62E-05
<i>WWC2</i>	0.600678579	0.123008675	4.883221265	1.04E-06	6.62E-05
<i>PNPT1</i>	0.694276975	0.142267451	4.880083027	1.06E-06	6.69E-05
<i>PKN2</i>	0.82745025	0.169663861	4.876997651	1.08E-06	6.72E-05
<i>CKS2</i>	-0.320305156	0.065675596	-4.87708027	1.08E-06	6.72E-05
<i>TRPM7</i>	0.921874994	0.189400534	4.867330479	1.13E-06	6.99E-05
<i>SF3B1</i>	0.704258132	0.144676268	4.867820702	1.13E-06	6.99E-05
<i>USP37</i>	1.078421748	0.221879549	4.860392728	1.17E-06	7.20E-05
<i>MKRN1</i>	-0.216659741	0.044620135	-4.8556496	1.20E-06	7.33E-05
<i>ATM</i>	1.010791539	0.208194165	4.855042591	1.20E-06	7.33E-05
<i>CPSF2</i>	0.674884379	0.139076863	4.852599937	1.22E-06	7.38E-05
<i>SMC3</i>	1.065771811	0.219721401	4.850559872	1.23E-06	7.42E-05
<i>EIF4G2</i>	0.436803032	0.09011978	4.846916309	1.25E-06	7.45E-05
<i>NFE2L2</i>	0.597050084	0.123188716	4.84662964	1.26E-06	7.45E-05
<i>NUPL1</i>	0.606659348	0.125116494	4.848755971	1.24E-06	7.45E-05
<i>TCF12</i>	0.607850104	0.125434894	4.845941056	1.26E-06	7.45E-05

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>FAM126B</i>	0.997929425	0.206086012	4.842295779	1.28E-06	7.55E-05
<i>LYST</i>	0.858325121	0.177300617	4.841072385	1.29E-06	7.56E-05
<i>RPL37</i>	-0.316570579	0.065455804	-4.836402	1.32E-06	7.71E-05
<i>GPBP1</i>	0.70838065	0.146633982	4.830944635	1.36E-06	7.88E-05
<i>KIF3A</i>	0.981744054	0.203252098	4.830179181	1.36E-06	7.88E-05
<i>GOPC</i>	0.553685441	0.114672004	4.828427347	1.38E-06	7.91E-05
<i>ARFGEF2</i>	0.600279572	0.124425422	4.824412573	1.40E-06	8.03E-05
<i>TRPS1</i>	0.831652778	0.172657311	4.816782863	1.46E-06	8.31E-05
<i>FRYL</i>	1.0884639	0.226221062	4.81150557	1.50E-06	8.45E-05
<i>SYNE1</i>	0.726243391	0.150936721	4.81157525	1.50E-06	8.45E-05
<i>HSPH1</i>	0.607757278	0.126353639	4.809970497	1.51E-06	8.48E-05
<i>SMEK2</i>	0.536521995	0.111632287	4.806154298	1.54E-06	8.61E-05
<i>EBLN3</i>	0.612355187	0.127493951	4.803013664	1.56E-06	8.70E-05
<i>CLTC</i>	0.663225643	0.138137927	4.801184284	1.58E-06	8.74E-05
<i>BMPR2</i>	0.840200697	0.175029829	4.800328617	1.58E-06	8.74E-05
<i>STK4</i>	0.449937592	0.093778038	4.797899411	1.60E-06	8.79E-05
<i>PPP6R3</i>	0.540087622	0.112592923	4.796816784	1.61E-06	8.79E-05
<i>XPOT</i>	0.635822936	0.132560561	4.796471358	1.61E-06	8.79E-05
<i>RPL31</i>	-0.285342909	0.059518828	-4.79416208	1.63E-06	8.82E-05
<i>SMCHD1</i>	1.140349395	0.237841254	4.794582002	1.63E-06	8.82E-05
<i>PHF3</i>	1.122445926	0.234201774	4.792644845	1.65E-06	8.85E-05
<i>CCAR1</i>	0.747101404	0.155936105	4.791073894	1.66E-06	8.88E-05
<i>TAF2</i>	0.943573188	0.196991416	4.789920324	1.67E-06	8.89E-05
<i>FERMT2</i>	0.726456137	0.151883941	4.78296871	1.73E-06	9.16E-05
<i>TRIM33</i>	0.590049644	0.123395923	4.781759627	1.74E-06	9.18E-05
<i>RPL11</i>	-0.243990018	0.051056059	-4.77886507	1.76E-06	9.24E-05
<i>PTPN11</i>	0.584831255	0.122381525	4.778754422	1.76E-06	9.24E-05
<i>ANKRD28</i>	0.659514537	0.138133157	4.774483924	1.80E-06	9.40E-05
<i>BAZ2B</i>	1.158685726	0.243169739	4.764925652	1.89E-06	9.81E-05
<i>GOLGB1</i>	1.217886721	0.255725692	4.762473072	1.91E-06	9.89E-05
<i>ATP5H</i>	-0.299187797	0.062861345	-4.75948769	1.94E-06	1.00E-04
<i>ZNF791</i>	0.747814359	0.157264912	4.755125275	1.98E-06	0.0001017
<i>DHX29</i>	0.781284204	0.16455302	4.74791774	2.06E-06	0.0001047
<i>MIER1</i>	0.840951629	0.177129443	4.747667088	2.06E-06	0.0001047
<i>CAPZA1</i>	0.624715325	0.131742876	4.741928708	2.12E-06	0.0001059
<i>PTBP2</i>	0.944709315	0.199222156	4.741989219	2.12E-06	0.0001059
<i>RSPRY1</i>	0.486687545	0.10261987	4.742624831	2.11E-06	0.0001059
<i>RPL37A</i>	-0.273988	0.057751516	-4.74425645	2.09E-06	0.0001059
<i>STAG2</i>	1.005949518	0.212217564	4.740180304	2.14E-06	0.0001064
<i>MAP7D3</i>	0.883325228	0.186507954	4.736126314	2.18E-06	0.0001068
<i>SKIL</i>	0.79232862	0.167238642	4.737712588	2.16E-06	0.0001068
<i>ZDHHC21</i>	0.688667734	0.14540128	4.736325129	2.18E-06	0.0001068
<i>KNTC1</i>	1.202871495	0.253879892	4.737954958	2.16E-06	0.0001068

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>ANKIB1</i>	0.681557943	0.143942691	4.734925683	2.19E-06	0.0001071
<i>RABGAP1</i>	0.572336257	0.120923874	4.73302944	2.21E-06	0.0001072
<i>DMTF1</i>	0.879100053	0.185793881	4.731587747	2.23E-06	0.0001072
<i>PDHB</i>	-0.289540116	0.061177086	-4.73281965	2.21E-06	0.0001072
<i>ZNF721</i>	1.305270677	0.275866275	4.731534066	2.23E-06	0.0001072
<i>MIB1</i>	0.898769873	0.190031877	4.729574259	2.25E-06	0.0001078
<i>EPB41</i>	0.522360616	0.110500669	4.72721677	2.28E-06	0.0001082
<i>U2SURP</i>	0.905444582	0.191522671	4.727610443	2.27E-06	0.0001082
<i>INTS2</i>	0.848723251	0.179674328	4.723675655	2.32E-06	0.0001088
<i>CALD1</i>	0.645974267	0.136746001	4.723898771	2.31E-06	0.0001088
<i>AKAP9</i>	1.385884503	0.293397776	4.723568528	2.32E-06	0.0001088
<i>ATMIN</i>	0.432043842	0.09147489	4.723086771	2.32E-06	0.0001088
<i>UBQLN1</i>	0.337000714	0.071498565	4.713391321	2.44E-06	0.0001136
<i>SCNM1</i>	-0.383563916	0.08139696	-4.71226339	2.45E-06	0.0001138
<i>OPA1</i>	0.896177078	0.19024323	4.710691044	2.47E-06	0.0001143
<i>SLC38A1</i>	0.8533543	0.181324148	4.706236377	2.52E-06	0.0001164
<i>QKI</i>	0.433663387	0.092188863	4.704075645	2.55E-06	0.0001164
<i>SOD1</i>	-0.226790275	0.048202931	-4.70490632	2.54E-06	0.0001164
<i>ZNF621</i>	0.506650069	0.107708402	4.703904794	2.55E-06	0.0001164
<i>VPS13A</i>	1.562542402	0.332322163	4.701890447	2.58E-06	0.0001171
<i>REST</i>	0.716901573	0.152666505	4.695866806	2.65E-06	0.0001193
<i>NUFIP2</i>	0.57128046	0.121641017	4.696445925	2.65E-06	0.0001193
<i>KRT10</i>	-0.484965867	0.103242263	-4.69735795	2.64E-06	0.0001193
<i>PHF6</i>	0.752513266	0.160301121	4.694373079	2.67E-06	0.0001198
<i>N4BP2</i>	1.39301341	0.2968832	4.692126102	2.70E-06	0.0001202
<i>LRBA</i>	0.837981323	0.178567169	4.692807356	2.69E-06	0.0001202
<i>CCSER2</i>	0.689665921	0.147070362	4.689360332	2.74E-06	0.000121
<i>ZBTB38</i>	0.76684395	0.163510982	4.689862056	2.73E-06	0.000121
<i>BCAT1</i>	0.666799792	0.142424686	4.681771198	2.84E-06	0.0001251
<i>ICE1</i>	0.850475245	0.182253957	4.666429527	3.06E-06	0.0001343
<i>ITSN2</i>	0.799484568	0.171373523	4.665158042	3.08E-06	0.0001347
<i>VPS8</i>	0.63713746	0.136725186	4.659986059	3.16E-06	0.0001376
<i>RPL13A</i>	-0.282211057	0.060574527	-4.65890652	3.18E-06	0.0001379
<i>PSME4</i>	0.744595615	0.159919498	4.656065247	3.22E-06	0.0001393
<i>NDUFB6</i>	-0.272446532	0.058581789	-4.65070353	3.31E-06	0.0001425
<i>CERS2</i>	-0.228955575	0.049254665	-4.64840387	3.35E-06	0.0001436
<i>LIMA1</i>	0.602249412	0.129679975	4.644120367	3.42E-06	0.0001442
<i>ACAP2</i>	0.763312133	0.164317928	4.645336898	3.40E-06	0.0001442
<i>EFR3A</i>	0.869948206	0.187330801	4.643914421	3.42E-06	0.0001442
<i>DDX60</i>	1.048540624	0.225757955	4.644534565	3.41E-06	0.0001442
<i>SMG1</i>	0.94360597	0.203106649	4.645864495	3.39E-06	0.0001442
<i>CLASP2</i>	0.704985147	0.151913239	4.640709071	3.47E-06	0.000146
<i>ZMYM2</i>	0.924351019	0.199234524	4.639512274	3.49E-06	0.0001463

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>CDC27</i>	0.714187143	0.154035952	4.636496431	3.54E-06	0.0001475
<i>PHKB</i>	0.765849302	0.165158227	4.637064215	3.53E-06	0.0001475
<i>ATP11B</i>	0.749199604	0.161726893	4.632498588	3.61E-06	0.0001498
<i>BBX</i>	0.814695077	0.175914686	4.63119422	3.64E-06	0.0001498
<i>KIAA1033</i>	0.935281595	0.201953541	4.631172043	3.64E-06	0.0001498
<i>ASCC3</i>	1.197510738	0.258901646	4.625350038	3.74E-06	0.0001536
<i>PPFIBP1</i>	0.489740171	0.106042249	4.618349526	3.87E-06	0.0001583
<i>ZFP90</i>	0.537301419	0.116371952	4.617104142	3.89E-06	0.0001587
<i>ROMO1</i>	-0.395224916	0.085655627	-4.61411505	3.95E-06	0.0001605
<i>EDEM3</i>	0.875597541	0.189871089	4.611536928	4.00E-06	0.000162
<i>PUM2</i>	0.623181877	0.13516555	4.610508201	4.02E-06	0.0001622
<i>SREK1</i>	0.862293051	0.187382968	4.601768551	4.19E-06	0.0001681
<i>LARP4</i>	0.823863141	0.179029235	4.601835797	4.19E-06	0.0001681
<i>EXOC5</i>	0.849007696	0.184743221	4.595609481	4.31E-06	0.0001726
<i>RSF1</i>	0.895805042	0.195022413	4.593344062	4.36E-06	0.0001739
<i>NEDD4</i>	1.004311368	0.218807626	4.589928539	4.43E-06	0.0001762
<i>PCM1</i>	1.101192144	0.239946348	4.589326548	4.45E-06	0.0001762
<i>ZC3H13</i>	0.841916282	0.183581884	4.586053166	4.52E-06	0.0001784
<i>TARS</i>	0.545126722	0.118906219	4.584509767	4.55E-06	0.0001786
<i>ARL3</i>	-0.33179242	0.072368532	-4.58476098	4.55E-06	0.0001786
<i>RNF7</i>	-0.312991178	0.068291339	-4.5831753	4.58E-06	0.0001791
<i>KIF11</i>	0.865464432	0.188914594	4.581247089	4.62E-06	0.0001802
<i>KMT2E</i>	0.746133057	0.163119374	4.5741535	4.78E-06	0.0001858
<i>SRP72</i>	0.709634353	0.155180536	4.572959808	4.81E-06	0.0001863
<i>KIF2A</i>	0.592119882	0.129536953	4.571049934	4.85E-06	0.0001874
<i>UGDH</i>	0.398134774	0.087192699	4.566148078	4.97E-06	0.0001913
<i>ASPM</i>	1.328712909	0.291229636	4.562423412	5.06E-06	0.0001941
<i>QSER1</i>	1.036450426	0.227231854	4.561202179	5.09E-06	0.0001942
<i>LARS</i>	0.636696658	0.139593866	4.561064735	5.09E-06	0.0001942
<i>CLIP1</i>	0.746423419	0.163729793	4.558873541	5.14E-06	0.000195
<i>ASPH</i>	0.520034037	0.114060755	4.559272254	5.13E-06	0.000195
<i>NPAT</i>	1.379961888	0.302861704	4.556409316	5.20E-06	0.0001967
<i>BIRC6</i>	0.918770086	0.201702522	4.555074853	5.24E-06	0.0001968
<i>PDZD11</i>	-0.282497248	0.062019423	-4.55498027	5.24E-06	0.0001968
<i>UBR1</i>	1.017261511	0.223462109	4.552277416	5.31E-06	0.0001988
<i>MANIA2</i>	0.672047855	0.147651211	4.55159055	5.32E-06	0.0001988
<i>USP34</i>	1.041220893	0.228963489	4.547541178	5.43E-06	0.0002009
<i>RBI</i>	0.690099913	0.151712592	4.548731935	5.40E-06	0.0002009
<i>SETD2</i>	0.734825047	0.161576634	4.547842263	5.42E-06	0.0002009
<i>CPD</i>	0.691847407	0.152260814	4.543831002	5.52E-06	0.0002038
<i>ORC2</i>	0.518859631	0.114306714	4.539187722	5.65E-06	0.0002077
<i>TRAPPC11</i>	0.7459837	0.16438671	4.537980591	5.68E-06	0.0002083
<i>CUL2</i>	0.629841997	0.138873667	4.535359432	5.75E-06	0.0002103

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>SNRPD2</i>	-0.259654363	0.057316951	-4.53014957	5.89E-06	0.0002149
<i>C5orf51</i>	0.692335375	0.152860797	4.529188563	5.92E-06	0.0002152
<i>EPC1</i>	0.619056996	0.136769658	4.526274347	6.00E-06	0.0002176
<i>USP28</i>	0.512857828	0.113390435	4.5229373	6.10E-06	0.0002204
<i>RHOBTB3</i>	0.521974958	0.115474975	4.520243089	6.18E-06	0.0002226
<i>RFC1</i>	0.857635979	0.189946634	4.515141764	6.33E-06	0.0002261
<i>ZCCHC6</i>	1.016932974	0.225259647	4.514492441	6.35E-06	0.0002261
<i>NIN</i>	0.83746394	0.185476137	4.515211242	6.33E-06	0.0002261
<i>GALNT7</i>	0.676696472	0.149883466	4.514817338	6.34E-06	0.0002261
<i>TMEM258</i>	-0.356253468	0.078940497	-4.51293673	6.39E-06	0.0002264
<i>SMC6</i>	1.050774924	0.232829552	4.513065099	6.39E-06	0.0002264
<i>pk</i>	0.544144867	0.12064601	4.510259953	6.47E-06	0.0002285
<i>RPL18A</i>	-0.350548695	0.077731039	-4.50976466	6.49E-06	0.0002285
<i>RAPGEF2</i>	0.732961597	0.162566375	4.508691279	6.52E-06	0.000229
<i>FXR1</i>	0.557957706	0.123786067	4.507435431	6.56E-06	0.0002297
<i>AP4E1</i>	0.809841748	0.179729125	4.505901565	6.61E-06	0.0002308
<i>EPRS</i>	0.783895189	0.174104581	4.502438624	6.72E-06	0.0002339
<i>SNRPG</i>	-0.348689604	0.077487654	-4.49993754	6.80E-06	0.000236
<i>TMF1</i>	0.970387196	0.215919659	4.49420493	6.98E-06	0.0002418
<i>COPS6</i>	-0.24648711	0.054862644	-4.49280403	7.03E-06	0.0002427
<i>SAMD8</i>	0.570760942	0.127074321	4.491552153	7.07E-06	0.0002434
<i>RPS2P5</i>	-0.387894651	0.08645493	-4.48666894	7.23E-06	0.0002484
<i>MAP1B</i>	0.661149202	0.14750563	4.482196372	7.39E-06	0.0002522
<i>F2R</i>	0.282261714	0.062969526	4.4825129	7.38E-06	0.0002522
<i>RBL2</i>	0.472516291	0.105441613	4.481307485	7.42E-06	0.0002526
<i>ATR</i>	1.241502228	0.277380687	4.475806306	7.61E-06	0.0002578
<i>FAM91A1</i>	0.869483332	0.194256251	4.475960638	7.61E-06	0.0002578
<i>CHMP7</i>	-0.196895289	0.04401246	-4.47362611	7.69E-06	0.0002597
<i>RANBP6</i>	0.839849827	0.18778656	4.47236387	7.74E-06	0.0002605
<i>ATP5G3</i>	-0.234847623	0.052587892	-4.46581169	7.98E-06	0.0002672
<i>ZNF146</i>	0.721588369	0.161568659	4.466140737	7.96E-06	0.0002672
<i>RPL35</i>	-0.274479794	0.061471854	-4.4651296	8.00E-06	0.0002673
<i>FAU</i>	-0.300116546	0.067224155	-4.46441527	8.03E-06	0.0002675
<i>PSMD13</i>	-0.246586315	0.055284131	-4.46034534	8.18E-06	0.0002719
<i>FAM111A</i>	0.662027676	0.148472828	4.458914714	8.24E-06	0.000273
<i>SLC12A2</i>	0.657416833	0.147564248	4.455122725	8.38E-06	0.0002771
<i>RPS21</i>	-0.296671723	0.066640977	-4.45179133	8.52E-06	0.0002807
<i>TNPO1</i>	0.778881439	0.175003057	4.450673323	8.56E-06	0.0002814
<i>PRDX1</i>	-0.223684286	0.050297447	-4.44722942	8.70E-06	0.0002852
<i>MYO9A</i>	1.067800776	0.240176628	4.445897938	8.75E-06	0.0002854
<i>STK17B</i>	0.777912701	0.174958287	4.44627526	8.74E-06	0.0002854
<i>XIAP</i>	0.688340263	0.155060528	4.439171428	9.03E-06	0.0002937
<i>PBRM1</i>	0.716156111	0.161377828	4.437760259	9.09E-06	0.0002949

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>NCOR1</i>	0.43947105	0.099126994	4.433414484	9.28E-06	0.0003001
<i>RIF1</i>	1.103802065	0.249042002	4.432192391	9.33E-06	0.000301
<i>COL4A3BP</i>	0.598414144	0.135056947	4.430828296	9.39E-06	0.0003021
<i>ANKRD17</i>	0.409221979	0.092383889	4.429581646	9.44E-06	0.0003023
<i>ASAP2</i>	0.590681777	0.133342887	4.42979591	9.43E-06	0.0003023
<i>PIAS1</i>	0.972316282	0.219769489	4.424255098	9.68E-06	0.000306
<i>MED1</i>	0.486140151	0.109874173	4.424517062	9.67E-06	0.000306
<i>MPC2</i>	-0.310486476	0.070179246	-4.42419223	9.68E-06	0.000306
<i>GOLGA4</i>	1.158224967	0.26167881	4.426132052	9.59E-06	0.000306
<i>FRS2</i>	0.96396924	0.217820227	4.425526753	9.62E-06	0.000306
<i>CCNL1</i>	0.636546129	0.144020834	4.419819761	9.88E-06	0.0003115
<i>RRM2B</i>	0.886413614	0.200589898	4.419034166	9.91E-06	0.0003117
<i>MPDZ</i>	0.621045571	0.140552817	4.418592131	9.93E-06	0.0003117
<i>APPBP2</i>	0.559569583	0.126687096	4.416942221	1.00E-05	0.0003132
<i>RBM8B</i>	-0.283312113	0.064151644	-4.41628765	1.00E-05	0.0003134
<i>TWISTNB</i>	0.925676033	0.209663937	4.415046505	1.01E-05	0.0003144
<i>PSMB6</i>	-0.275898773	0.062503193	-4.41415488	1.01E-05	0.0003149
<i>DNAJC3</i>	0.700961488	0.158832942	4.41319968	1.02E-05	0.000315
<i>YTHDF3</i>	0.653328977	0.148046662	4.412993621	1.02E-05	0.000315
<i>DOPEY1</i>	1.00089478	0.22692005	4.410781593	1.03E-05	0.0003175
<i>TXNL4A</i>	-0.270339322	0.06131165	-4.40926518	1.04E-05	0.0003181
<i>NDUFS2</i>	-0.219885695	0.049867984	-4.40935605	1.04E-05	0.0003181
<i>ENSA</i>	-0.151449037	0.034362055	-4.40744993	1.05E-05	0.00032
<i>DLG1</i>	0.605538263	0.137411575	4.406748571	1.05E-05	0.0003202
<i>TRIM37</i>	0.447465071	0.101584283	4.404865193	1.06E-05	0.0003222
<i>PTPN12</i>	0.539391074	0.122503776	4.403056727	1.07E-05	0.0003233
<i>ELK4</i>	0.722675548	0.164113066	4.403522314	1.07E-05	0.0003233
<i>ZFHX4</i>	0.716721243	0.162807504	4.402261713	1.07E-05	0.0003234
<i>C21orf91</i>	0.96264132	0.218683833	4.40197753	1.07E-05	0.0003234
<i>RASA1</i>	0.659714388	0.149919301	4.400463334	1.08E-05	0.0003248
<i>RAI14</i>	0.665588475	0.151492315	4.393546129	1.12E-05	0.0003343
<i>NEK7</i>	0.908223718	0.206734491	4.393189134	1.12E-05	0.0003343
<i>UBA52</i>	-0.265307026	0.060447501	-4.38904872	1.14E-05	0.0003399
<i>ATP7A</i>	0.901068624	0.205328877	4.388416469	1.14E-05	0.0003401
<i>SDF2</i>	-0.328667587	0.074926168	-4.38655275	1.15E-05	0.0003413
<i>APC</i>	1.109754804	0.25296377	4.387010853	1.15E-05	0.0003413
<i>ARPP19</i>	0.557331475	0.127103256	4.384871722	1.16E-05	0.0003432
<i>PYGO1</i>	0.988043294	0.225391518	4.383675585	1.17E-05	0.0003442
<i>SIRT1</i>	0.664058266	0.151526175	4.382465725	1.17E-05	0.0003453
<i>FAM208A</i>	0.67820627	0.154772321	4.381960969	1.18E-05	0.0003453
<i>CEBPZ</i>	0.923868896	0.210920298	4.380180126	1.19E-05	0.0003473
<i>ANKRD50</i>	0.720279035	0.16448703	4.378941225	1.19E-05	0.0003485
<i>SNRPGP10</i>	-0.37540448	0.085741949	-4.3783059	1.20E-05	0.0003487

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>CEP295</i>	1.331767388	0.304219182	4.377657516	1.20E-05	0.0003489
<i>SNAPIN</i>	-0.251771321	0.057546431	-4.37509877	1.21E-05	0.0003522
<i>ZNF281</i>	0.580405229	0.132682929	4.374377572	1.22E-05	0.0003525
<i>PSMA7</i>	-0.245117799	0.056055265	-4.37278817	1.23E-05	0.0003534
<i>PCNXL4</i>	0.587704008	0.134399769	4.372805189	1.23E-05	0.0003534
<i>GSTO1</i>	-0.2919196	0.066809586	-4.36942688	1.25E-05	0.0003581
<i>MED13</i>	0.815396367	0.186750353	4.366237358	1.26E-05	0.0003625
<i>ATAD2</i>	1.074460255	0.246297385	4.362450932	1.29E-05	0.0003671
<i>TOPBP1</i>	0.887219161	0.203376162	4.362454043	1.29E-05	0.0003671
<i>TBL1XR1</i>	0.673452209	0.15447967	4.359487619	1.30E-05	0.0003713
<i>YES1</i>	0.708847157	0.162814545	4.353709043	1.34E-05	0.0003803
<i>RNF19A</i>	0.798008873	0.183359391	4.3521571	1.35E-05	0.0003822
<i>PRKAB2</i>	0.466943348	0.10734118	4.350085844	1.36E-05	0.0003849
<i>BTAF1</i>	0.89943314	0.206825166	4.348760631	1.37E-05	0.0003861
<i>ARHGEF12</i>	0.723952235	0.166486005	4.348426967	1.37E-05	0.0003861
<i>NDUFA4</i>	-0.255482651	0.058759879	-4.34790974	1.37E-05	0.0003861
<i>RASAL2</i>	0.630805687	0.145106742	4.347183875	1.38E-05	0.0003861
<i>WDFY1</i>	0.476603017	0.109654617	4.346401716	1.38E-05	0.0003861
<i>ICK</i>	0.634113296	0.14588931	4.346537099	1.38E-05	0.0003861
<i>NUP50</i>	0.565211795	0.130115233	4.343932558	1.40E-05	0.0003896
<i>SYNE2</i>	1.08061057	0.249005967	4.339697486	1.43E-05	0.0003963
<i>IFT22</i>	-0.319325091	0.073605043	-4.33835886	1.44E-05	0.0003969
<i>TBC1D32</i>	1.277565486	0.294470292	4.338520793	1.43E-05	0.0003969
<i>LPGAT1</i>	0.711321767	0.164109908	4.334423041	1.46E-05	0.0004032
<i>DOCK7</i>	0.768078386	0.177290945	4.33230466	1.48E-05	0.0004062
<i>SLC25A5</i>	-0.202150603	0.046670556	-4.33143764	1.48E-05	0.0004069
<i>TFRC</i>	0.665498787	0.153693306	4.33004406	1.49E-05	0.0004086
<i>EIF4H</i>	-0.204700492	0.047343751	-4.32370667	1.53E-05	0.0004177
<i>JMJD1C</i>	1.075707569	0.248787094	4.323807759	1.53E-05	0.0004177
<i>CCDC14</i>	0.984524251	0.22765646	4.324604942	1.53E-05	0.0004177
<i>ZFR</i>	0.637080429	0.147362714	4.323213198	1.54E-05	0.0004177
<i>PIK3R1</i>	0.715325812	0.165518989	4.32171448	1.55E-05	0.0004182
<i>TOR1AIP2</i>	0.476282617	0.110193682	4.32223162	1.54E-05	0.0004182
<i>PDCD6</i>	-0.214171729	0.049559509	-4.32150627	1.55E-05	0.0004182
<i>FAM63B</i>	0.886813421	0.205237846	4.320905913	1.55E-05	0.0004184
<i>MALSU1</i>	-0.253241722	0.058621199	-4.31996829	1.56E-05	0.0004193
<i>WWTR1</i>	0.415757623	0.096281689	4.318138028	1.57E-05	0.0004219
<i>RPS12</i>	-0.261863323	0.060655256	-4.3172404	1.58E-05	0.0004222
<i>SLFN11</i>	0.464608148	0.10762197	4.317038119	1.58E-05	0.0004222
<i>OTUD4</i>	0.837022363	0.193918843	4.316353954	1.59E-05	0.0004226
<i>ZC3HAV1</i>	0.375401268	0.086999797	4.314967151	1.60E-05	0.0004243
<i>TOP2B</i>	0.844497351	0.195750746	4.314146278	1.60E-05	0.000425
<i>LBR</i>	0.5359414	0.124268926	4.312754752	1.61E-05	0.0004267

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>CEP192</i>	0.873360861	0.202613371	4.310479897	1.63E-05	0.0004302
<i>SLC30A9</i>	0.586404552	0.13612914	4.307707772	1.65E-05	0.0004329
<i>TPR</i>	1.139919568	0.26460714	4.307969799	1.65E-05	0.0004329
<i>CDK14</i>	0.44321327	0.102869931	4.308482242	1.64E-05	0.0004329
<i>TRIP11</i>	1.096005995	0.254661555	4.303774844	1.68E-05	0.0004397
<i>SGOL2</i>	1.095275236	0.254535716	4.303031634	1.68E-05	0.0004402
<i>TTLL7</i>	0.721332148	0.167665206	4.302217289	1.69E-05	0.0004409
<i>TRAPPC3</i>	-0.215027962	0.04999205	-4.30124316	1.70E-05	0.0004419
<i>PSMB5</i>	-0.234298589	0.054497184	-4.2992788	1.71E-05	0.0004448
<i>ARHGAP5</i>	0.906101276	0.21077509	4.298901136	1.72E-05	0.0004448
<i>EVI5</i>	0.770010029	0.179245699	4.295835463	1.74E-05	0.0004481
<i>MFN2</i>	-0.195168071	0.045423488	-4.29663326	1.73E-05	0.0004481
<i>RP11-343H5.4</i>	-1.004117318	0.233739185	-4.29588782	1.74E-05	0.0004481
<i>SLAIN2</i>	0.352737214	0.08212127	4.295320986	1.74E-05	0.0004483
<i>PNISR</i>	0.49518482	0.115354811	4.2927106	1.77E-05	0.0004517
<i>USO1</i>	0.697819194	0.162554755	4.292825478	1.76E-05	0.0004517
<i>MANF</i>	-0.241863364	0.056379706	-4.28990109	1.79E-05	0.0004565
<i>SNX13</i>	0.703875818	0.164136877	4.288346583	1.80E-05	0.0004587
<i>ZHX1</i>	0.716677544	0.167178853	4.286891135	1.81E-05	0.0004599
<i>PPIAP31</i>	-0.764750532	0.178379361	-4.28721421	1.81E-05	0.0004599
<i>WDR11</i>	0.663793896	0.154887089	4.285663184	1.82E-05	0.0004615
<i>SMAD5</i>	0.72741173	0.169895872	4.281515035	1.86E-05	0.0004685
<i>STON1</i>	0.899251027	0.210036614	4.281401267	1.86E-05	0.0004685
<i>COX6C</i>	-0.279464902	0.065318109	-4.27852104	1.88E-05	0.0004736
<i>WDR35</i>	0.781480547	0.182746607	4.27630673	1.90E-05	0.0004764
<i>FAM96B</i>	-0.319366505	0.074681137	-4.27640123	1.90E-05	0.0004764
<i>PRKACB</i>	0.758788175	0.177515582	4.274487721	1.92E-05	0.0004793
<i>RALGPS2</i>	0.830533295	0.194467333	4.270811358	1.95E-05	0.0004863
<i>FNDC3A</i>	0.82388664	0.193063436	4.267440055	1.98E-05	0.0004926
<i>ZNF260</i>	1.022194916	0.23955426	4.267070494	1.98E-05	0.0004926
<i>ITGB1</i>	0.608672464	0.14267446	4.266162747	1.99E-05	0.0004936
<i>MSH3</i>	0.68688956	0.161028746	4.265633155	1.99E-05	0.0004937
<i>PRPF4B</i>	0.730698249	0.171359045	4.264135855	2.01E-05	0.000495
<i>BRIP1</i>	1.283423293	0.300975877	4.264206506	2.01E-05	0.000495
<i>CSNK1G1</i>	0.542240661	0.127175766	4.263710607	2.01E-05	0.000495
<i>CCDC93</i>	0.445033349	0.104411871	4.2622869	2.02E-05	0.0004972
<i>CDC42BPA</i>	0.779244428	0.182868535	4.261227479	2.03E-05	0.0004986
<i>CSE1L</i>	0.696986073	0.163675521	4.258340335	2.06E-05	0.0005021
<i>NAA15</i>	0.768150395	0.180401139	4.258013005	2.06E-05	0.0005021
<i>HELZ</i>	0.780862203	0.183347452	4.258920408	2.05E-05	0.0005021
<i>RPL39P3</i>	-0.308114685	0.072363295	-4.25788633	2.06E-05	0.0005021
<i>PDZD8</i>	0.604931124	0.142117167	4.256566165	2.08E-05	0.0005041
<i>ZNF611</i>	0.565534004	0.132936346	4.254171419	2.10E-05	0.0005085

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>SPOPL</i>	0.839924871	0.197470312	4.253423533	2.11E-05	0.0005092
<i>SLMAP</i>	0.491281998	0.115520783	4.25275856	2.11E-05	0.0005097
<i>CNIH4</i>	-0.263630581	0.062007888	-4.25156524	2.12E-05	0.0005115
<i>LAMTOR5</i>	-0.230330882	0.054224037	-4.24776343	2.16E-05	0.0005132
<i>HDX</i>	1.194300128	0.281114841	4.248442111	2.15E-05	0.0005132
<i>BRWD3</i>	0.988451348	0.232568076	4.250159207	2.14E-05	0.0005132
<i>SDADI</i>	0.71199759	0.167558117	4.249257528	2.14E-05	0.0005132
<i>TTC37</i>	0.898275215	0.211395683	4.249259988	2.14E-05	0.0005132
<i>SMIM7</i>	-0.262530368	0.061802798	-4.24787185	2.16E-05	0.0005132
<i>YBX1P1</i>	-0.172658192	0.040638999	-4.24858378	2.15E-05	0.0005132
<i>LCA5</i>	0.997748679	0.235030033	4.245196519	2.18E-05	0.0005181
<i>CCDC186</i>	1.12672761	0.265464295	4.24436593	2.19E-05	0.0005191
<i>DMXL1</i>	0.868360491	0.204726705	4.241559451	2.22E-05	0.0005246
<i>SUPT16H</i>	0.519139016	0.122525646	4.236982483	2.27E-05	0.0005333
<i>CAMTA1</i>	-0.29883019	0.070523078	-4.23733904	2.26E-05	0.0005333
<i>FKTN</i>	1.001821188	0.236521538	4.235644657	2.28E-05	0.0005355
<i>PDS5B</i>	0.997588851	0.235589153	4.234443041	2.29E-05	0.0005358
<i>POLK</i>	1.151546279	0.271975286	4.234010735	2.30E-05	0.0005358
<i>MBNL2</i>	0.912613374	0.215552427	4.233834832	2.30E-05	0.0005358
<i>PRKCI</i>	0.631498482	0.149115845	4.234952233	2.29E-05	0.0005358
<i>APEX1</i>	-0.226900501	0.053612629	-4.23222108	2.31E-05	0.0005384
<i>GNG12</i>	0.585317782	0.138310779	4.231902848	2.32E-05	0.0005384
<i>DYNLT1</i>	-0.281311178	0.066485386	-4.23117313	2.32E-05	0.0005391
<i>SRPK1</i>	0.510036655	0.120560161	4.230557198	2.33E-05	0.0005396
<i>SOAT1</i>	0.484813687	0.114622371	4.229660263	2.34E-05	0.0005407
<i>AFF1</i>	0.432303286	0.10221831	4.229215756	2.35E-05	0.0005408
<i>SPAG9</i>	0.532039251	0.12585649	4.227348541	2.36E-05	0.0005436
<i>AP1G1</i>	0.465506515	0.110121169	4.227220964	2.37E-05	0.0005436
<i>C1orf43</i>	-0.234907374	0.055602876	-4.22473424	2.39E-05	0.0005486
<i>TRIM44</i>	0.287009227	0.067974715	4.222293913	2.42E-05	0.0005535
<i>TROVE2</i>	0.733218109	0.173693523	4.221332474	2.43E-05	0.0005549
<i>PPTC7</i>	0.707037868	0.167533412	4.220279759	2.44E-05	0.0005564
<i>RPLP2</i>	-0.265966486	0.063042733	-4.21882864	2.46E-05	0.000559
<i>LATS1</i>	0.673058409	0.159578398	4.217728814	2.47E-05	0.0005607
<i>AGFG1</i>	0.385679656	0.091550144	4.212769507	2.52E-05	0.0005721
<i>ZNF207</i>	0.356653445	0.084734732	4.209058503	2.56E-05	0.0005794
<i>PAN3</i>	0.730726279	0.173594023	4.209397692	2.56E-05	0.0005794
<i>TCEAL3</i>	-0.264911197	0.06296102	-4.20754294	2.58E-05	0.0005823
<i>RNF20</i>	0.535253528	0.127316409	4.204120531	2.62E-05	0.0005901
<i>KIF14</i>	1.399875248	0.333019202	4.203587177	2.63E-05	0.0005904
<i>NBN</i>	0.746996768	0.177929564	4.198272338	2.69E-05	0.0006033
<i>MYSM1</i>	0.959465242	0.228574965	4.197595491	2.70E-05	0.000604
<i>RLF</i>	0.868089967	0.206886511	4.195971807	2.72E-05	0.0006073

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>BAZ1B</i>	0.446064214	0.106326355	4.195236568	2.73E-05	0.0006082
<i>NUP133</i>	0.463879318	0.110589462	4.194606879	2.73E-05	0.0006087
<i>GLS</i>	0.61849254	0.147478666	4.193776327	2.74E-05	0.0006094
<i>NBAS</i>	0.424679794	0.101279232	4.193157716	2.75E-05	0.0006094
<i>SAMD9</i>	1.492999344	0.356040884	4.193336805	2.75E-05	0.0006094
<i>TET1</i>	1.388261555	0.331112216	4.192722248	2.76E-05	0.0006094
<i>SLK</i>	0.892294785	0.212871687	4.191702518	2.77E-05	0.0006111
<i>IREB2</i>	0.701924811	0.167586776	4.188425993	2.81E-05	0.0006189
<i>USP9X</i>	0.818336237	0.1954986	4.185893078	2.84E-05	0.0006247
<i>AC004453.8</i>	-0.286792539	0.068532963	-4.18473866	2.85E-05	0.0006268
<i>ITCH</i>	0.462723348	0.11065707	4.181597672	2.89E-05	0.0006344
<i>SPG11</i>	0.509745579	0.121971176	4.179229858	2.92E-05	0.0006391
<i>H2AFZ</i>	-0.261911414	0.062671436	-4.17911941	2.93E-05	0.0006391
<i>HSPA9</i>	0.343671211	0.082269116	4.177402481	2.95E-05	0.0006406
<i>KIF20B</i>	1.283661708	0.307289485	4.17736945	2.95E-05	0.0006406
<i>NSD1</i>	0.459162373	0.109904275	4.177839067	2.94E-05	0.0006406
<i>TTC17</i>	0.380891509	0.091228696	4.175128283	2.98E-05	0.0006458
<i>RPS8</i>	-0.21086756	0.050531003	-4.17303334	3.01E-05	0.0006506
<i>DEPDC1</i>	0.812452068	0.194837889	4.169887442	3.05E-05	0.0006574
<i>UACA</i>	0.999799024	0.239754059	4.170102589	3.04E-05	0.0006574
<i>UPF2</i>	0.894197104	0.214695546	4.164954151	3.11E-05	0.0006706
<i>KRIT1</i>	0.667209821	0.160231461	4.164037552	3.13E-05	0.0006721
<i>MALTI</i>	0.514631026	0.123609453	4.163363021	3.14E-05	0.0006729
<i>SMC2</i>	1.105876299	0.265748287	4.161367546	3.16E-05	0.0006777
<i>XRCC5</i>	0.409755732	0.098488817	4.160429009	3.18E-05	0.0006793
<i>APOL6</i>	0.686748228	0.16510459	4.159473878	3.19E-05	0.0006809
<i>THADA</i>	0.516973025	0.124418305	4.155120294	3.25E-05	0.0006928
<i>RB1CC1</i>	0.965328247	0.232391802	4.153882531	3.27E-05	0.0006954
<i>VEZT</i>	0.577218455	0.139017735	4.152120983	3.29E-05	0.0006984
<i>UQCRCQ</i>	-0.286688262	0.069045899	-4.15214036	3.29E-05	0.0006984
<i>VPS35</i>	0.699882803	0.168685851	4.14903086	3.34E-05	0.0007054
<i>MYO5A</i>	0.718568386	0.173174021	4.149400589	3.33E-05	0.0007054
<i>SNX1</i>	-0.183241991	0.04419029	-4.1466574	3.37E-05	0.0007116
<i>MMS22L</i>	0.700938312	0.169107385	4.14493024	3.40E-05	0.0007157
<i>SNRPEP4</i>	-0.52223627	0.126110138	-4.1411125	3.46E-05	0.0007265
<i>GTF3C3</i>	0.692675206	0.167323149	4.139745228	3.48E-05	0.0007284
<i>KIAA2026</i>	1.01339582	0.244790291	4.139852999	3.48E-05	0.0007284
<i>UFL1</i>	0.914213182	0.221068123	4.135436483	3.54E-05	0.0007397
<i>ARL5B</i>	0.913750467	0.220937113	4.135794358	3.54E-05	0.0007397
<i>DDX46</i>	0.707088045	0.171049268	4.133826793	3.57E-05	0.0007436
<i>PLEKHA1</i>	0.555094967	0.134344788	4.131868256	3.60E-05	0.0007487
<i>VPS41</i>	0.476814596	0.115447007	4.130159882	3.63E-05	0.0007515
<i>STIL</i>	0.856754468	0.207440035	4.130130753	3.63E-05	0.0007515

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>CKAP5</i>	0.556420847	0.134744037	4.129465473	3.64E-05	0.0007515
<i>KIAA0753</i>	0.47017548	0.113849596	4.129794907	3.63E-05	0.0007515
<i>ARHGAP12</i>	0.812066361	0.197106344	4.119940255	3.79E-05	0.000782
<i>IPO11</i>	0.716424472	0.173935788	4.118902049	3.81E-05	0.0007842
<i>AKR1B1</i>	-0.219824099	0.05342509	-4.11462292	3.88E-05	0.0007976
<i>PHACTR2</i>	0.653213501	0.158769072	4.114236436	3.88E-05	0.0007976
<i>ZNF772</i>	0.576931603	0.140303094	4.112037628	3.92E-05	0.0008039
<i>BMII</i>	0.682522266	0.166000021	4.111579401	3.93E-05	0.0008041
<i>NUP153</i>	0.57313551	0.13946148	4.109633078	3.96E-05	0.0008096
<i>FGF2</i>	0.650689653	0.158382178	4.108351473	3.98E-05	0.0008128
<i>MACF1</i>	0.661960698	0.161144905	4.107859935	3.99E-05	0.0008132
<i>QDPR</i>	-0.281884149	0.068627195	-4.10747008	4.00E-05	0.0008132
<i>DCAF17</i>	0.805077192	0.19613756	4.104655901	4.05E-05	0.0008199
<i>AFTP8H</i>	0.742978857	0.180990027	4.105081761	4.04E-05	0.0008199
<i>DIXDC1</i>	0.526024854	0.128160138	4.104434217	4.05E-05	0.0008199
<i>LTN1</i>	1.157661682	0.282211938	4.102100328	4.09E-05	0.0008269
<i>CAND1</i>	0.628455286	0.153339383	4.098459734	4.16E-05	0.0008352
<i>CHM</i>	0.885819208	0.216145269	4.098258608	4.16E-05	0.0008352
<i>FAR1</i>	0.867513428	0.211620915	4.099374708	4.14E-05	0.0008352
<i>DCP1A</i>	0.424978254	0.103679945	4.098943682	4.15E-05	0.0008352
<i>LRRKIP1</i>	0.487532317	0.118982069	4.097527629	4.18E-05	0.0008365
<i>COPB1</i>	0.768539117	0.187643609	4.095738301	4.21E-05	0.0008417
<i>SMARCA1</i>	0.67434185	0.164670374	4.095101223	4.22E-05	0.0008426
<i>SUZ12</i>	0.649204261	0.15861919	4.092848159	4.26E-05	0.0008495
<i>KITLG</i>	1.439095221	0.351648284	4.092427819	4.27E-05	0.0008496
<i>RBM25</i>	0.604701616	0.14781106	4.091044441	4.29E-05	0.0008533
<i>SUCO</i>	0.853560061	0.208681163	4.090259269	4.31E-05	0.0008549
<i>HERC1</i>	0.593314435	0.14507051	4.089834901	4.32E-05	0.0008551
<i>ATP11C</i>	0.782879957	0.191863388	4.08040307	4.50E-05	0.0008891
<i>CKAP2</i>	0.843391942	0.206898941	4.076347303	4.57E-05	0.0009033
<i>CD109</i>	0.621441348	0.152522898	4.074413471	4.61E-05	0.0009094
<i>TPP2</i>	0.713093254	0.175104503	4.072386734	4.65E-05	0.0009159
<i>ENPP1</i>	0.752403571	0.184784478	4.071789906	4.67E-05	0.0009167
<i>TANCI</i>	0.389878775	0.095869164	4.066779736	4.77E-05	0.0009352
<i>YTHDC2</i>	0.652126504	0.160428502	4.064904285	4.81E-05	0.0009406
<i>C19orf43</i>	-0.260920418	0.064197646	-4.06432998	4.82E-05	0.0009406
<i>NR1D2</i>	0.662647421	0.163028641	4.064607405	4.81E-05	0.0009406
<i>DENND4A</i>	1.044332064	0.257029359	4.063084726	4.84E-05	0.0009441
<i>SBNO1</i>	0.911537807	0.224462451	4.060981259	4.89E-05	0.0009512
<i>RAB7A</i>	-0.229469543	0.056522837	-4.05976693	4.91E-05	0.0009546
<i>ZNF12</i>	0.616485724	0.151898258	4.05854373	4.94E-05	0.0009581
<i>PHF20L1</i>	0.700257569	0.172558351	4.058091452	4.95E-05	0.0009585
<i>EIF4A3</i>	-0.259837663	0.064043391	-4.05721278	4.97E-05	0.0009606

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>RNF6</i>	0.690708178	0.170274133	4.056448068	4.98E-05	0.0009622
<i>SEC24A</i>	0.578627998	0.142679299	4.055444638	5.00E-05	0.0009649
<i>AP3M1</i>	0.54797931	0.135144058	4.05477917	5.02E-05	0.0009661
<i>ARHGAP21</i>	0.719651349	0.177512449	4.054089456	5.03E-05	0.0009675
<i>NELFCD</i>	-0.219594759	0.05420136	-4.05146213	5.09E-05	0.0009754
<i>UBN2</i>	0.792695482	0.195644998	4.051703287	5.08E-05	0.0009754
<i>ANLN</i>	0.986706527	0.24358785	4.050721442	5.11E-05	0.0009757
<i>AC004967.7</i>	-0.364086074	0.089883354	-4.05065075	5.11E-05	0.0009757
<i>MIA3</i>	0.586419198	0.144831813	4.048966761	5.14E-05	0.0009799
<i>UQCR10</i>	-0.262619366	0.06486161	-4.04891839	5.15E-05	0.0009799
<i>CENPF</i>	1.340368947	0.33136428	4.045001313	5.23E-05	0.0009949
<i>MTDH</i>	0.532544961	0.131772087	4.041409485	5.31E-05	0.0010088
<i>KIAA1109</i>	1.378323562	0.34131457	4.038279293	5.38E-05	0.0010207
<i>PCNX</i>	0.570843605	0.141442627	4.035866828	5.44E-05	0.0010297
<i>SENP6</i>	0.656516201	0.162730135	4.034386144	5.47E-05	0.0010328
<i>ASXL2</i>	0.568711342	0.140964626	4.034425926	5.47E-05	0.0010328
<i>TOP1</i>	0.461476207	0.114394071	4.034092017	5.48E-05	0.0010328
<i>NIPBL</i>	0.529582858	0.131349798	4.031851346	5.53E-05	0.0010411
<i>HEATR5A</i>	1.121328448	0.278441989	4.027152842	5.65E-05	0.0010605
<i>MYDGF</i>	-0.26775905	0.066505253	-4.02613387	5.67E-05	0.0010622
<i>FNDC3B</i>	0.395106326	0.098137128	4.026063681	5.67E-05	0.0010622
<i>VEZF1</i>	0.335200502	0.083288626	4.024565179	5.71E-05	0.0010673
<i>KLHL42</i>	0.450503978	0.112089582	4.019142271	5.84E-05	0.0010893
<i>KIF13A</i>	0.449987581	0.111963295	4.019063393	5.84E-05	0.0010893
<i>SOS2</i>	0.832062431	0.207077537	4.018120178	5.87E-05	0.001092
<i>ARRDC3</i>	0.823118522	0.204914423	4.016889153	5.90E-05	0.0010961
<i>SLC38A2</i>	0.562637591	0.140110843	4.015660589	5.93E-05	0.0011001
<i>HABP4</i>	-0.248192374	0.061813054	-4.01520967	5.94E-05	0.0011006
<i>MED13L</i>	0.473422949	0.117934156	4.014298856	5.96E-05	0.0011016
<i>DTL</i>	0.49012131	0.122089682	4.014436778	5.96E-05	0.0011016
<i>MGA</i>	1.041919335	0.259602157	4.013523409	5.98E-05	0.0011035
<i>CDK5</i>	-0.203098316	0.050643897	-4.01032163	6.06E-05	0.0011169
<i>SLC25A3</i>	-0.196384107	0.049021791	-4.00605739	6.17E-05	0.0011356
<i>MFN1</i>	0.630980407	0.157543669	4.005114329	6.20E-05	0.0011384
<i>KLHL9</i>	0.575030402	0.143613247	4.004020612	6.23E-05	0.001142
<i>NKTR</i>	0.844806357	0.21102565	4.003334942	6.25E-05	0.0011436
<i>ITGAE</i>	-0.268405669	0.067073792	-4.00164743	6.29E-05	0.0011501
<i>TIMM8B</i>	-0.263402385	0.065870634	-3.99878319	6.37E-05	0.0011624
<i>UFD1L</i>	-0.256772219	0.064249699	-3.9964735	6.43E-05	0.0011721
<i>EIF1AX</i>	0.68020398	0.17023802	3.995605558	6.45E-05	0.0011746
<i>CRYBG3</i>	1.336029594	0.334668933	3.992093271	6.55E-05	0.0011904
<i>FAM13B</i>	0.678455445	0.169982722	3.991320036	6.57E-05	0.0011926
<i>C3orf17</i>	0.638570426	0.160021259	3.990534952	6.59E-05	0.0011948

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>RPS20P14</i>	-0.442045622	0.110859585	-3.98743711	6.68E-05	0.0012087
<i>ZMAT3</i>	0.58477996	0.146824028	3.982862801	6.81E-05	0.0012304
<i>PIK3C2A</i>	1.229808627	0.308906292	3.981170531	6.86E-05	0.0012374
<i>DDX3X</i>	0.530914875	0.133375723	3.980596056	6.87E-05	0.0012386
<i>AHCTF1</i>	1.039599924	0.261276207	3.978930706	6.92E-05	0.0012455
<i>KPNA3</i>	0.661865885	0.166421875	3.977036594	6.98E-05	0.0012525
<i>NSUN6</i>	1.241961841	0.31229353	3.97690545	6.98E-05	0.0012525
<i>XPO4</i>	0.897012559	0.225617093	3.975818256	7.01E-05	0.0012556
<i>NT5C3B</i>	-0.205389319	0.051662142	-3.97562529	7.02E-05	0.0012556
<i>COX7A2</i>	-0.249616045	0.062809572	-3.97417204	7.06E-05	0.0012614
<i>MYO6</i>	0.690943387	0.173909723	3.973000335	7.10E-05	0.0012658
<i>ECD</i>	0.443842329	0.111782025	3.970605557	7.17E-05	0.0012768
<i>BROX</i>	0.63372771	0.159648426	3.969520572	7.20E-05	0.0012808
<i>ZNF664</i>	0.450605248	0.113550803	3.96831406	7.24E-05	0.0012854
<i>FAM126A</i>	0.606836909	0.152942214	3.967752881	7.26E-05	0.0012866
<i>RP11-234A1.1</i>	-0.245170665	0.061802788	-3.96698389	7.28E-05	0.0012889
<i>CLCN3</i>	0.458000319	0.115559816	3.963318186	7.39E-05	0.001307
<i>ATRX</i>	1.101627722	0.277995311	3.962756483	7.41E-05	0.0013082
<i>FANCI</i>	0.644263344	0.162605721	3.962119771	7.43E-05	0.0013098
<i>WRN</i>	0.795773024	0.200926522	3.960517581	7.48E-05	0.0013168
<i>AQR</i>	0.878320971	0.221847751	3.959115953	7.52E-05	0.0013213
<i>NDUFB4</i>	-0.213283516	0.053872771	-3.95902255	7.53E-05	0.0013213
<i>STT3B</i>	0.556605407	0.140620332	3.958214293	7.55E-05	0.0013239
<i>PHIP</i>	1.114878788	0.281696955	3.957723953	7.57E-05	0.0013247
<i>MRPL41</i>	-0.312975267	0.079092588	-3.95707456	7.59E-05	0.0013264
<i>TRMT112</i>	-0.258352072	0.065340531	-3.95393285	7.69E-05	0.0013421
<i>UTP14C</i>	0.83988544	0.212571296	3.951076442	7.78E-05	0.0013563
<i>PHF14</i>	0.600107254	0.151952834	3.949299509	7.84E-05	0.0013642
<i>DHX15</i>	0.532810534	0.134922442	3.949013406	7.85E-05	0.0013642
<i>CEP350</i>	1.184545	0.300019184	3.948230855	7.87E-05	0.0013667
<i>RILPL2</i>	-0.383148415	0.09707731	-3.94683798	7.92E-05	0.0013728
<i>CLINT1</i>	0.418410057	0.10605801	3.94510567	7.98E-05	0.0013808
<i>EEA1</i>	1.327095269	0.336484046	3.944006514	8.01E-05	0.0013852
<i>HLTF</i>	0.807796262	0.204936656	3.94168753	8.09E-05	0.0013926
<i>WDR75</i>	0.634973917	0.161072408	3.942164419	8.07E-05	0.0013926
<i>ZSWIM6</i>	0.428846046	0.108813071	3.941126209	8.11E-05	0.0013926
<i>RPS3</i>	-0.25377103	0.0664397005	-3.94072719	8.12E-05	0.0013926
<i>BPTF</i>	0.768288925	0.194932679	3.941303884	8.10E-05	0.0013926
<i>SLC39A10</i>	0.808163247	0.205070421	3.940905978	8.12E-05	0.0013926
<i>OST4</i>	-0.263437076	0.066949638	-3.93485435	8.32E-05	0.0014251
<i>SOCS5</i>	0.684653694	0.174098083	3.932574568	8.40E-05	0.0014367
<i>MTX3</i>	0.725017842	0.184406449	3.931629537	8.44E-05	0.0014404
<i>PDLIM5</i>	0.334686072	0.085141907	3.930920543	8.46E-05	0.0014426

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>RICTOR</i>	0.978493672	0.249364858	3.923943738	8.71E-05	0.001483
<i>NFXL1</i>	0.855430028	0.218295022	3.918687749	8.90E-05	0.0015137
<i>RBM39</i>	0.395176924	0.100913512	3.91599613	9.00E-05	0.0015286
<i>7-Mar</i>	0.636382254	0.162827983	3.908310107	9.29E-05	0.0015758
<i>ENAH</i>	0.39456021	0.100980787	3.907279994	9.33E-05	0.0015804
<i>MLLT4</i>	0.393940581	0.100840366	3.906576284	9.36E-05	0.0015828
<i>DNAJC13</i>	1.024667143	0.262353023	3.905680715	9.40E-05	0.0015865
<i>TBC1D8B</i>	1.140018593	0.291964856	3.904643209	9.44E-05	0.0015887
<i>CD164</i>	0.535897286	0.137238957	3.904848137	9.43E-05	0.0015887
<i>PSMD4</i>	-0.222888274	0.057086994	-3.90436169	9.45E-05	0.0015887
<i>TMOD3</i>	0.555504952	0.142320543	3.903195832	9.49E-05	0.0015936
<i>ZNF770</i>	0.827681229	0.212064678	3.902966	9.50E-05	0.0015936
<i>C19orf70</i>	-0.321529557	0.082389691	-3.90254599	9.52E-05	0.0015942
<i>MIER3</i>	0.925975078	0.237298247	3.902157259	9.53E-05	0.0015946
<i>GNAQ</i>	0.666160911	0.17077476	3.900815983	9.59E-05	0.0016013
<i>ZNF37A</i>	1.044287118	0.267774653	3.899872918	9.62E-05	0.0016054
<i>MYO1B</i>	0.481602036	0.123528588	3.898709154	9.67E-05	0.0016109
<i>CCDC88A</i>	1.135427506	0.291473878	3.895469176	9.80E-05	0.0016304
<i>CTD-2287016.1</i>	-0.327000388	0.083958709	-3.89477626	9.83E-05	0.0016329
<i>GPR180</i>	0.730087388	0.187563238	3.892486585	9.92E-05	0.0016462
<i>C6orf62</i>	0.332700224	0.08548407	3.891955813	9.94E-05	0.0016475
<i>FOXO3</i>	0.353089797	0.090815764	3.88797915	0.0001011	0.0016725
<i>ZNF644</i>	0.620817899	0.159730018	3.886670195	0.0001016	0.0016793
<i>RPL3</i>	-0.221833726	0.057085002	-3.88602468	0.0001019	0.0016807
<i>RFC3</i>	0.676674091	0.174139203	3.885822835	0.000102	0.0016807
<i>ANKRD12</i>	1.13160259	0.291242694	3.885428247	0.0001021	0.0016812
<i>ROBO1</i>	0.495385013	0.127527343	3.884539577	0.0001025	0.0016851
<i>CGGBP1</i>	0.480164736	0.12365966	3.882953724	0.0001032	0.0016939
<i>SRSF11</i>	0.403993646	0.104081741	3.881503544	0.0001038	0.0017018
<i>NDUFC1</i>	-0.258323433	0.066577386	-3.88004766	0.0001044	0.0017091
<i>C2orf69</i>	0.728535995	0.187776117	3.879811814	0.0001045	0.0017091
<i>SEC61B</i>	-0.241107207	0.062187215	-3.87711857	0.0001057	0.0017258
<i>ATP6V0E1</i>	-0.227327843	0.058661868	-3.87522337	0.0001065	0.0017347
<i>HEATR1</i>	0.712382858	0.183830112	3.875223988	0.0001065	0.0017347
<i>SYTL5</i>	0.872972024	0.225314466	3.874460613	0.0001069	0.0017379
<i>EIF3A</i>	0.457958013	0.11825501	3.872630963	0.0001077	0.0017487
<i>MDM2</i>	0.615268583	0.158959356	3.87060314	0.0001086	0.001761
<i>REV3L</i>	1.303701446	0.336889027	3.869824605	0.0001089	0.0017643
<i>FMR1</i>	0.579693729	0.14986931	3.867994912	0.0001097	0.0017732
<i>EIF5B</i>	0.702572254	0.181639125	3.867956603	0.0001098	0.0017732
<i>FMNL2</i>	0.490860867	0.127011118	3.864707864	0.0001112	0.0017947
<i>ABLIM1</i>	0.33698699	0.087210425	3.864067748	0.0001115	0.001797
<i>ATP6V1C1</i>	0.556854896	0.144184129	3.8621095	0.0001124	0.0018091

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>POU2F1</i>	0.667392733	0.172839471	3.861344446	0.0001128	0.0018124
<i>PPP1R12A</i>	0.762856136	0.197777342	3.85714626	0.0001147	0.0018415
<i>ARFGEF1</i>	0.867890538	0.225041288	3.856583585	0.000115	0.0018433
<i>WDR48</i>	0.481028138	0.124762504	3.855550531	0.0001155	0.0018487
<i>UBR5</i>	0.747667901	0.193946143	3.855028465	0.0001157	0.0018503
<i>FOXJ3</i>	0.261762113	0.067928144	3.853514872	0.0001164	0.0018593
<i>YAP1</i>	0.362480303	0.094074802	3.853107267	0.0001166	0.00186
<i>MAPK6</i>	0.703610889	0.182706936	3.851035463	0.0001176	0.0018734
<i>RBX1</i>	-0.208098852	0.05404199	-3.85068819	0.0001178	0.0018737
<i>CHMP4B</i>	-0.224076597	0.058229757	-3.84814586	0.000119	0.0018884
<i>FARSB</i>	0.404172791	0.105022055	3.84845632	0.0001189	0.0018884
<i>SEMA3C</i>	0.625022534	0.162478144	3.846809897	0.0001197	0.001889
<i>KIF21A</i>	1.261622349	0.327963448	3.846838283	0.0001197	0.001889
<i>RAB3B</i>	0.609813929	0.158513253	3.847084818	0.0001195	0.001889
<i>VCPIP1</i>	0.668977619	0.173893753	3.847048018	0.0001195	0.001889
<i>ATAD2B</i>	0.845369698	0.219849494	3.845220123	0.0001204	0.0018969
<i>PRR14L</i>	0.735196091	0.19120018	3.845164224	0.0001205	0.0018969
<i>CUL5</i>	0.696663442	0.181401033	3.840460161	0.0001228	0.0019311
<i>DYNLL2</i>	-0.199072366	0.051839662	-3.84015555	0.000123	0.0019311
<i>USP33</i>	0.561857154	0.146355319	3.838993745	0.0001235	0.0019378
<i>ROCK1</i>	0.885629708	0.230825148	3.836799054	0.0001246	0.0019527
<i>ALS2</i>	0.379637494	0.098968989	3.835923735	0.0001251	0.0019572
<i>SQSTM1</i>	-1.167787099	0.304508458	-3.83499068	0.0001256	0.0019621
<i>DSG2</i>	0.566884968	0.147987147	3.830636501	0.0001278	0.0019946
<i>TRAK2</i>	0.583063204	0.152362176	3.82682381	0.0001298	0.0020232
<i>ESCO2</i>	0.811415555	0.212078458	3.826015907	0.0001302	0.0020273
<i>NCAPG2</i>	0.3329738	0.087052913	3.824958754	0.0001308	0.0020335
<i>RIC1</i>	0.52367124	0.137050039	3.821022187	0.0001329	0.0020636
<i>CDC5L</i>	0.590314073	0.154588279	3.818621155	0.0001342	0.0020768
<i>CCP110</i>	0.908818498	0.237993563	3.818668399	0.0001342	0.0020768
<i>TDRD7</i>	0.622236259	0.162951973	3.818525459	0.0001343	0.0020768
<i>TRIM24</i>	0.620171886	0.162452371	3.817561305	0.0001348	0.0020823
<i>SCYL2</i>	0.845751071	0.221598721	3.816588224	0.0001353	0.0020879
<i>H2AFY</i>	-0.166470994	0.043621613	-3.81625027	0.0001355	0.0020882
<i>DCTN3</i>	-0.260041127	0.068156957	-3.81532769	0.000136	0.0020908
<i>ZNF217</i>	0.412357487	0.108071467	3.81559998	0.0001359	0.0020908
<i>WDR36</i>	0.88897348	0.23302825	3.814874286	0.0001363	0.002092
<i>EPS15</i>	0.734309574	0.192516219	3.814273828	0.0001366	0.0020945
<i>MRPL20</i>	-0.247390396	0.064904295	-3.81161823	0.0001381	0.0021145
<i>HIPK3</i>	0.744288309	0.195306565	3.810871941	0.0001385	0.0021183
<i>ZBTB37</i>	0.925512059	0.24289709	3.810305262	0.0001388	0.0021205
<i>ZFYVE16</i>	0.896069707	0.235207531	3.809698199	0.0001391	0.0021225
<i>RARS</i>	0.454831158	0.119394875	3.809469691	0.0001393	0.0021225

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>IPO5</i>	0.431396942	0.113263024	3.808806495	0.0001396	0.0021255
<i>RCOR3</i>	0.397403336	0.104361362	3.807954671	0.0001401	0.0021303
<i>DDX18</i>	0.549852195	0.144415982	3.807419299	0.0001404	0.0021322
<i>AAGAB</i>	0.276602039	0.07266943	3.806305316	0.0001411	0.0021346
<i>EDRF1</i>	0.501699653	0.131792624	3.806735446	0.0001408	0.0021346
<i>RABGAP1L</i>	0.776296778	0.203953634	3.806241451	0.0001411	0.0021346
<i>LRPPRC</i>	0.632267658	0.166136752	3.805706151	0.0001414	0.0021366
<i>MALAT1</i>	0.891573125	0.234300117	3.805261122	0.0001417	0.0021378
<i>HIPK1</i>	0.448988615	0.118024464	3.804199587	0.0001423	0.0021444
<i>SLC5A3</i>	0.685242692	0.180155171	3.803624889	0.0001426	0.0021467
<i>SWAP70</i>	0.439261859	0.115565065	3.800991759	0.0001441	0.002167
<i>CXADR</i>	0.589018884	0.154980501	3.800599957	0.0001443	0.0021678
<i>ATF6</i>	0.389806529	0.10257865	3.800074664	0.0001447	0.0021698
<i>CPNE3</i>	0.641438273	0.168868814	3.798441284	0.0001456	0.0021815
<i>DOCK4</i>	0.718910062	0.189297727	3.79777441	0.000146	0.0021847
<i>SETD7</i>	0.414897891	0.109276661	3.796765808	0.0001466	0.0021883
<i>USP47</i>	0.802878443	0.211457838	3.796872467	0.0001465	0.0021883
<i>APBB2</i>	0.455916117	0.120103351	3.796031626	0.000147	0.0021922
<i>RAB3GAP2</i>	0.739068549	0.194894017	3.792156173	0.0001493	0.002224
<i>WAC</i>	0.405930767	0.107111342	3.789801905	0.0001508	0.0022317
<i>SPIN1</i>	0.455191343	0.120100003	3.790102681	0.0001506	0.0022317
<i>KLHDC3</i>	-0.250993807	0.066228569	-3.7898117	0.0001508	0.0022317
<i>API5</i>	0.526272045	0.138847636	3.790284533	0.0001505	0.0022317
<i>GLOD4</i>	-0.21516489	0.056773733	-3.7898669	0.0001507	0.0022317
<i>TOP2A</i>	1.113303566	0.293817539	3.789098393	0.0001512	0.0022354
<i>PRELID1</i>	-0.308827669	0.081521533	-3.78829565	0.0001517	0.0022399
<i>ARID4B</i>	0.755739569	0.199572384	3.786794318	0.0001526	0.0022428
<i>PNN</i>	0.589055567	0.155555011	3.786799045	0.0001526	0.0022428
<i>DGKH</i>	0.962517762	0.254142579	3.787314051	0.0001523	0.0022428
<i>GSTM3</i>	-0.264518298	0.069845406	-3.7871968	0.0001524	0.0022428
<i>AP3B1</i>	0.535155826	0.141398656	3.784730634	0.0001539	0.0022588
<i>USPL1</i>	0.958806001	0.253391809	3.783887121	0.0001544	0.0022627
<i>FER</i>	0.898870235	0.237563136	3.783710939	0.0001545	0.0022627
<i>DDHD2</i>	0.43511918	0.115013021	3.783216689	0.0001548	0.0022645
<i>ANAPC11</i>	-0.272791089	0.072149718	-3.78090304	0.0001563	0.002283
<i>UQCC1</i>	-0.256781343	0.067956084	-3.77863657	0.0001577	0.0023011
<i>PFDN5</i>	-0.198610579	0.052570334	-3.77799727	0.0001581	0.0023043
<i>UNC5D</i>	0.870556312	0.230453894	3.777572582	0.0001584	0.0023055
<i>MEA1</i>	-0.226549324	0.059980266	-3.77706437	0.0001587	0.0023075
<i>RPL41</i>	-0.232050226	0.061446406	-3.77646539	0.0001591	0.0023103
<i>MSH6</i>	0.452399228	0.119916131	3.772630305	0.0001615	0.0023434
<i>PTARI</i>	0.803828469	0.213199835	3.770305309	0.000163	0.0023626
<i>HECTD1</i>	0.839004064	0.22259108	3.76926185	0.0001637	0.0023697

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>GSTK1</i>	-0.197718652	0.05245978	-3.76895692	0.0001639	0.0023698
<i>NTPCR</i>	-0.236117349	0.062673973	-3.76739081	0.000165	0.0023819
<i>RBAK</i>	0.885035533	0.234979516	3.766436961	0.0001656	0.0023857
<i>CEP57</i>	0.649843759	0.172536646	3.766410057	0.0001656	0.0023857
<i>MAP4K5</i>	0.667363258	0.177214464	3.765850959	0.000166	0.0023883
<i>BMPRIA</i>	0.58997741	0.156688765	3.765282154	0.0001664	0.002391
<i>VCAN</i>	0.671599752	0.178408112	3.764401429	0.0001669	0.0023965
<i>VMA2I</i>	0.351517991	0.093386374	3.764125062	0.0001671	0.0023965
<i>EYA4</i>	0.465109522	0.123680586	3.760570162	0.0001695	0.002428
<i>ZNF106</i>	0.478544526	0.127457678	3.754536676	0.0001737	0.0024729
<i>RDX</i>	0.599277046	0.159612943	3.754564238	0.0001736	0.0024729
<i>SDHC</i>	-0.190162364	0.050638497	-3.75529241	0.0001731	0.0024729
<i>PSMB4</i>	-0.202076145	0.053816194	-3.75493189	0.0001734	0.0024729
<i>ZKSCAN8</i>	0.680485621	0.181223426	3.754953955	0.0001734	0.0024729
<i>KDM5A</i>	0.513701801	0.136833416	3.754213095	0.0001739	0.0024729
<i>PAICS</i>	0.343874363	0.091610199	3.753668979	0.0001743	0.0024729
<i>ACBD6</i>	-0.202352061	0.053903723	-3.75395336	0.0001741	0.0024729
<i>HMCN1</i>	0.770929702	0.205564445	3.750306633	0.0001766	0.0025006
<i>TNIK</i>	0.344163208	0.091768853	3.750327005	0.0001766	0.0025006
<i>CLDN12</i>	0.696404065	0.185718023	3.749792588	0.000177	0.0025028
<i>NUP155</i>	0.581602916	0.155159752	3.748413537	0.000178	0.0025138
<i>RAB8B</i>	0.686987013	0.183372787	3.74639566	0.0001794	0.0025312
<i>ZBTB1</i>	0.737775524	0.196985376	3.745331457	0.0001802	0.002539
<i>PPIA</i>	-0.195595221	0.052243469	-3.74391716	0.0001812	0.0025505
<i>LMAN2L</i>	-0.220319968	0.058877818	-3.74198598	0.0001826	0.0025672
<i>CDK17</i>	0.556164151	0.148677009	3.740754244	0.0001835	0.0025769
<i>PPP1R7</i>	-0.203146105	0.054316205	-3.7400644	0.000184	0.0025798
<i>SNRPF</i>	-0.219218288	0.058616103	-3.73989869	0.0001841	0.0025798
<i>LRRC8C</i>	0.683480748	0.182768184	3.739604625	0.0001843	0.0025799
<i>FBXO11</i>	0.534590785	0.143067375	3.736636575	0.0001865	0.0026076
<i>PSMC5</i>	-0.212660549	0.056942769	-3.73463661	0.000188	0.0026239
<i>IGF2BP3</i>	0.673389698	0.180316	3.734497751	0.0001881	0.0026239
<i>SMC5</i>	0.884453387	0.23690961	3.733294683	0.000189	0.0026335
<i>CIRBP</i>	-0.244078	0.065395822	-3.73231795	0.0001897	0.0026408
<i>NCOA2</i>	0.710146107	0.1903354	3.731024857	0.0001907	0.0026514
<i>TSC22D3</i>	-0.372139801	0.099805032	-3.72866773	0.0001925	0.0026733
<i>POLR2B</i>	0.63700055	0.170881462	3.7277335	0.0001932	0.0026795
<i>RPS14</i>	-0.216704888	0.058136458	-3.72752135	0.0001934	0.0026795
<i>EDF1</i>	-0.241370375	0.064770006	-3.72657639	0.0001941	0.0026865
<i>C5orf42</i>	1.291144777	0.346656688	3.724563298	0.0001957	0.002702
<i>RP11-864N7.2</i>	-0.246223249	0.066106747	-3.72463115	0.0001956	0.002702
<i>AGGF1</i>	0.561031853	0.150645266	3.724191727	0.0001959	0.0027029
<i>PPIP5K2</i>	0.784613299	0.210709982	3.7236646	0.0001964	0.0027056

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>FZD6</i>	0.569744688	0.153105272	3.721261059	0.0001982	0.0027284
<i>VPS36</i>	0.520625501	0.139973004	3.719470791	0.0001996	0.0027448
<i>PPP1R15B</i>	0.289146748	0.077817323	3.715711831	0.0002026	0.0027828
<i>CAST</i>	0.319322801	0.085954629	3.71501576	0.0002032	0.0027874
<i>ATP10D</i>	0.532187282	0.143301979	3.713746926	0.0002042	0.0027983
<i>ZNF507</i>	0.992454746	0.267293605	3.712976021	0.0002048	0.0028037
<i>ZNF853</i>	-0.274877491	0.074129542	-3.70806948	0.0002088	0.0028555
<i>DRAPI</i>	-0.283095035	0.07635839	-3.70745161	0.0002094	0.0028593
<i>PAK2</i>	0.267215973	0.072109556	3.705694317	0.0002108	0.002876
<i>SLC39A6</i>	0.602562512	0.162624591	3.705236142	0.0002112	0.002878
<i>DCP2</i>	0.549826506	0.148407533	3.704842291	0.0002115	0.0028793
<i>PTCD3</i>	0.518218649	0.139897284	3.704279564	0.000212	0.0028812
<i>APOA1BP</i>	-0.274918513	0.074219698	-3.70411789	0.0002121	0.0028812
<i>SHOC2</i>	0.631569244	0.170904043	3.695461111	0.0002195	0.0029746
<i>RAD21</i>	0.495996323	0.134208636	3.695710938	0.0002193	0.0029746
<i>KCTD12</i>	0.441509077	0.11949187	3.694887997	0.00022	0.0029781
<i>SSFA2</i>	0.432784312	0.117152311	3.694202089	0.0002206	0.0029829
<i>DALRD3</i>	-0.227220925	0.0615186	-3.69353214	0.0002212	0.0029875
<i>JAK2</i>	0.801524157	0.217076009	3.692366372	0.0002222	0.0029947
<i>ZFC3H1</i>	0.868002524	0.235073813	3.692467967	0.0002221	0.0029947
<i>RP5-857K21.6</i>	-0.591624389	0.160408298	-3.68824055	0.0002258	0.0030403
<i>SEPSECS</i>	0.88315407	0.239563464	3.686514017	0.0002273	0.0030577
<i>PIK3CA</i>	0.801418714	0.217607814	3.682858158	0.0002306	0.0030985
<i>DAD1</i>	-0.219897969	0.059744206	-3.68065767	0.0002326	0.003122
<i>FKBP2</i>	-0.266098627	0.072334223	-3.67873764	0.0002344	0.0031422
<i>EXOC1</i>	0.562990956	0.153182587	3.675293432	0.0002376	0.0031814
<i>EIF2A</i>	0.54628039	0.148690301	3.673947694	0.0002388	0.0031948
<i>ZNF562</i>	0.478885823	0.130433988	3.671480342	0.0002411	0.0032188
<i>ZBED5</i>	0.566701645	0.154344628	3.671664198	0.000241	0.0032188
<i>DDI2</i>	0.631494401	0.172032269	3.670790402	0.0002418	0.003224
<i>SARS</i>	-0.267662029	0.072969159	-3.66815285	0.0002443	0.0032492
<i>SLIRP</i>	-0.368450602	0.100450725	-3.66797356	0.0002445	0.0032492
<i>SNRNP25</i>	-0.318865262	0.086931809	-3.66799294	0.0002445	0.0032492
<i>SRP54</i>	0.475054032	0.129599289	3.665560484	0.0002468	0.0032749
<i>ATE1</i>	0.620437647	0.16926834	3.665408703	0.0002469	0.0032749
<i>KIF1B</i>	0.495258078	0.135140657	3.664760027	0.0002476	0.0032797
<i>TRUB1</i>	0.615083656	0.1678958	3.663484477	0.0002488	0.0032926
<i>CLTA</i>	-0.202348158	0.055242126	-3.66293214	0.0002493	0.0032961
<i>FEM1C</i>	0.486247399	0.132902258	3.658684249	0.0002535	0.0033473
<i>SH3GLB2</i>	-0.238055648	0.065070252	-3.65844055	0.0002538	0.0033473
<i>RHOA</i>	-0.135870607	0.03714332	-3.65800918	0.0002542	0.0033493
<i>FYTTD1</i>	0.589924325	0.161345291	3.656284739	0.0002559	0.0033684
<i>PPP1R9A</i>	0.846308747	0.231580599	3.654488982	0.0002577	0.0033812

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>YOD1</i>	0.996950208	0.27277489	3.654845967	0.0002573	0.0033812
<i>SYNJ2BP</i>	0.541057959	0.148043827	3.654714755	0.0002575	0.0033812
<i>KDM7A</i>	1.129098967	0.309092294	3.652950876	0.0002592	0.0033979
<i>MCM10</i>	0.677889499	0.185635654	3.651720376	0.0002605	0.0034099
<i>INADL</i>	0.547888256	0.150044418	3.651507083	0.0002607	0.0034099
<i>MAK16</i>	0.618609397	0.169478558	3.650074708	0.0002622	0.0034253
<i>DYNC1I2</i>	0.405659278	0.1111801	3.648668037	0.0002636	0.0034405
<i>TBCB</i>	-0.222445274	0.061095934	-3.6409178	0.0002717	0.0035348
<i>PGAPI</i>	0.69731038	0.191506235	3.641188925	0.0002714	0.0035348
<i>RP11-632C17_A.1</i>	-0.228801824	0.062842156	-3.64089708	0.0002717	0.0035348
<i>ADD3</i>	0.778306714	0.213857295	3.639374156	0.0002733	0.0035521
<i>LIMCH1</i>	0.294006867	0.080799769	3.638709256	0.000274	0.0035575
<i>CASP8AP2</i>	1.100094076	0.302371922	3.638215053	0.0002745	0.0035606
<i>HSBP1</i>	-0.193817822	0.053288831	-3.63711903	0.0002757	0.003572
<i>HEATR5B</i>	0.675215503	0.185675934	3.636526761	0.0002763	0.0035765
<i>STIP1</i>	-0.206069484	0.056740901	-3.63176263	0.0002815	0.0036356
<i>NDUFB1</i>	-0.343510308	0.094578849	-3.63199926	0.0002812	0.0036356
<i>USP46</i>	0.509350982	0.140280873	3.630936778	0.0002824	0.0036396
<i>ARHGAP18</i>	0.654617106	0.180282029	3.63107244	0.0002822	0.0036396
<i>ASUN</i>	0.636439651	0.17540851	3.628328239	0.0002853	0.0036728
<i>MBNL3</i>	1.075290349	0.296405704	3.627765373	0.0002859	0.0036769
<i>TMEM185A</i>	-0.258739058	0.071332051	-3.62724827	0.0002865	0.0036805
<i>TP53BP1</i>	0.423711552	0.11682573	3.626868429	0.0002869	0.0036821
<i>SP4</i>	0.838212517	0.231262261	3.624510599	0.0002895	0.0037081
<i>PEX1</i>	0.564919355	0.1558591	3.624551636	0.0002895	0.0037081
<i>STK26</i>	0.592626717	0.163528633	3.623993581	0.0002901	0.0037104
<i>DTX3L</i>	0.59804153	0.1650416	3.623580544	0.0002906	0.0037104
<i>ABBA01017803.1</i>	1.413842156	0.390181543	3.623549553	0.0002906	0.0037104
<i>NSRP1</i>	0.68683245	0.189607445	3.622391774	0.0002919	0.0037155
<i>GCC2</i>	1.209615144	0.33391791	3.622492561	0.0002918	0.0037155
<i>TLR6</i>	0.82351162	0.227334221	3.622470982	0.0002918	0.0037155
<i>CCDC18</i>	1.348774453	0.372466581	3.621195892	0.0002932	0.0037289
<i>CEP120</i>	0.916147824	0.253077392	3.620030279	0.0002946	0.003741
<i>ANO6</i>	0.520122298	0.143687138	3.619825029	0.0002948	0.003741
<i>CCNDBP1</i>	-0.239189357	0.066086045	-3.61936259	0.0002953	0.0037439
<i>TIMM10</i>	-0.2382861	0.065892173	-3.61630357	0.0002988	0.0037845
<i>DYRK1A</i>	0.496846733	0.137453001	3.614666308	0.0003007	0.0038046
<i>NBEAL1</i>	0.97446727	0.26970605	3.613071602	0.0003026	0.0038204
<i>SFT2D2</i>	0.402685202	0.111452621	3.613061754	0.0003026	0.0038204
<i>SSX2IP</i>	0.713330338	0.197534575	3.611166992	0.0003048	0.0038437
<i>CNPY4</i>	-0.309662844	0.085756519	-3.61095399	0.0003051	0.0038437
<i>PAWR</i>	0.546321823	0.151312002	3.610565019	0.0003055	0.0038454
<i>PDE4DIP</i>	0.268233304	0.074300486	3.610115072	0.0003061	0.0038454

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>RPS29</i>	-0.36878349	0.102154722	-3.61004839	0.0003061	0.0038454
<i>DYNLRB1</i>	-0.2499585	0.069317823	-3.60597738	0.000311	0.0038983
<i>SLTM</i>	0.590386294	0.163721694	3.606035831	0.0003109	0.0038983
<i>AGO3</i>	0.460926185	0.127862717	3.604852123	0.0003123	0.0039113
<i>USP25</i>	0.773171777	0.21453191	3.603994275	0.0003134	0.0039202
<i>ADNP</i>	0.355408138	0.09867254	3.601895088	0.0003159	0.003948
<i>LINC00657</i>	0.419486658	0.116490601	3.601034363	0.000317	0.0039571
<i>MBNL1</i>	0.738258519	0.205062373	3.600165687	0.000318	0.0039646
<i>THAP5</i>	0.754045246	0.209455921	3.600018773	0.0003182	0.0039646
<i>PLS1</i>	0.651509777	0.181250437	3.594528026	0.000325	0.0040369
<i>LA16c-358B7.3</i>	-0.947881714	0.263689796	-3.59468485	0.0003248	0.0040369
<i>NDUFV2P1</i>	-0.282881615	0.078689685	-3.59490083	0.0003245	0.0040369
<i>USP48</i>	0.449691	0.125180337	3.59234534	0.0003277	0.0040627
<i>MIOS</i>	0.496225859	0.138131116	3.592426328	0.0003276	0.0040627
<i>TTC39B</i>	0.621253167	0.172958787	3.591914459	0.0003283	0.0040635
<i>AC240274.1</i>	0.342915107	0.095472351	3.591773995	0.0003284	0.0040635
<i>KIAA0232</i>	0.636249174	0.177161378	3.591353711	0.000329	0.004066
<i>NCKAP1</i>	0.531727331	0.148097856	3.590378323	0.0003302	0.0040772
<i>ELOVL6</i>	0.472252167	0.131635277	3.587580607	0.0003338	0.004117
<i>UHRF2</i>	0.516829181	0.144145495	3.585468837	0.0003365	0.0041464
<i>2-Sep</i>	0.391201344	0.109152097	3.584002093	0.0003384	0.0041656
<i>BRCA1</i>	0.701851764	0.195999839	3.580879291	0.0003424	0.0042073
<i>MMD</i>	0.428325722	0.11960965	3.581029801	0.0003422	0.0042073
<i>PARP4</i>	0.396464786	0.11083668	3.577017867	0.0003475	0.0042599
<i>ASHIL</i>	0.78892027	0.220539942	3.57722171	0.0003473	0.0042599
<i>CERS6</i>	0.501494514	0.140205455	3.576854512	0.0003478	0.0042599
<i>ERP29</i>	-0.218909684	0.061213699	-3.57615512	0.0003487	0.0042629
<i>ZNF25</i>	1.03736208	0.290070423	3.576242171	0.0003486	0.0042629
<i>HELB</i>	1.012198855	0.283074974	3.5757271	0.0003493	0.0042656
<i>ZSCAN29</i>	0.371981144	0.104138106	3.571998382	0.0003543	0.0043226
<i>MAP3K4</i>	0.403515652	0.113011013	3.570586981	0.0003562	0.0043416
<i>CBX5</i>	0.447758888	0.125420683	3.57005622	0.0003569	0.0043419
<i>RAB11FIP2</i>	1.003893093	0.281194082	3.570107468	0.0003568	0.0043419
<i>MAP2K4</i>	0.502125263	0.140691851	3.568971889	0.0003584	0.0043428
<i>NAT14</i>	-0.316780052	0.088758561	-3.56900843	0.0003583	0.0043428
<i>KRAS</i>	0.5813915	0.162901685	3.568971678	0.0003584	0.0043428
<i>TBCA</i>	-0.264651271	0.074148239	-3.56921856	0.000358	0.0043428
<i>SACM1L</i>	0.533771131	0.149722661	3.565065745	0.0003638	0.0044037
<i>CASC4</i>	0.465636341	0.130666898	3.563537119	0.0003659	0.0044251
<i>RBBP8</i>	0.688989759	0.193382149	3.562840527	0.0003669	0.0044282
<i>MSI2</i>	0.356928803	0.100176824	3.562987802	0.0003667	0.0044282
<i>HSP90AA1</i>	0.716739003	0.201248011	3.561471237	0.0003688	0.0044426
<i>RBMS1</i>	0.391298516	0.109869454	3.561485944	0.0003688	0.0044426

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>SLC25A4</i>	-0.255299158	0.071712854	-3.56001948	0.0003708	0.0044629
<i>SPAST</i>	0.710276514	0.199602073	3.558462614	0.000373	0.0044824
<i>LUC7L3</i>	0.520197106	0.146190014	3.558362794	0.0003732	0.0044824
<i>PLOD2</i>	0.527446944	0.148421896	3.553700354	0.0003799	0.0045582
<i>HEBP2</i>	-0.230648949	0.06490875	-3.55343387	0.0003802	0.0045584
<i>PNPLA8</i>	0.570243154	0.160579568	3.551156362	0.0003835	0.0045936
<i>CNST</i>	0.454358515	0.128012294	3.549334985	0.0003862	0.004621
<i>BZW1</i>	0.596375419	0.168104682	3.547643132	0.0003887	0.0046463
<i>EPB41L2</i>	0.263217578	0.074250672	3.544985802	0.0003926	0.0046849
<i>RPS6KB1</i>	0.492068393	0.138808121	3.544953916	0.0003927	0.0046849
<i>ETHE1</i>	-0.371776369	0.104887981	-3.54450878	0.0003933	0.0046871
<i>STARD4</i>	0.648509561	0.182971431	3.544321418	0.0003936	0.0046871
<i>TANC2</i>	0.371973364	0.104996513	3.542721131	0.000396	0.0047111
<i>CREB1</i>	0.418144981	0.118041031	3.542369784	0.0003965	0.0047128
<i>DDX6</i>	0.5546417	0.156653876	3.540555233	0.0003993	0.0047408
<i>CUL3</i>	0.470407072	0.132903016	3.539476266	0.0004009	0.0047557
<i>FKBP5</i>	0.478444586	0.135237219	3.537817407	0.0004034	0.0047731
<i>CD46</i>	0.562555716	0.159015081	3.537750714	0.0004036	0.0047731
<i>IL7R</i>	0.597911519	0.168990903	3.538128423	0.000403	0.0047731
<i>SEC31A</i>	0.328512543	0.092879156	3.536988868	0.0004047	0.0047823
<i>SON</i>	0.375496499	0.106196894	3.535851983	0.0004065	0.0047984
<i>MANIA1</i>	0.488476766	0.138174745	3.535210195	0.0004075	0.0048054
<i>ZNF451</i>	0.749170162	0.21195646	3.534547439	0.0004085	0.0048129
<i>HELLS</i>	0.59263474	0.167773559	3.53234886	0.0004119	0.0048485
<i>MTR</i>	0.508537619	0.144054877	3.530165938	0.0004153	0.004884
<i>KIF1C</i>	-0.200483072	0.056824611	-3.52810286	0.0004185	0.0049176
<i>CHCHD1</i>	-0.215091004	0.060981028	-3.52717904	0.00042	0.0049301
<i>MAGI3</i>	0.512410225	0.145307341	3.526389104	0.0004213	0.0049307
<i>SMURF2</i>	0.404179232	0.11460241	3.526795211	0.0004206	0.0049307
<i>BNC2</i>	0.315314039	0.089413163	3.526483462	0.0004211	0.0049307
<i>NUDCD2</i>	-0.27901839	0.079155809	-3.52492626	0.0004236	0.0049534
<i>MRGBP</i>	-0.221550923	0.062859991	-3.52451407	0.0004243	0.0049564
<i>TMOD2</i>	1.095273961	0.310852122	3.523456604	0.000426	0.0049715
<i>CASC5</i>	1.316542057	0.373856462	3.52151746	0.0004291	0.0050033
<i>RFX3</i>	0.567501432	0.161165055	3.521243685	0.0004295	0.0050037
<i>SEC11A</i>	-0.188464637	0.053539507	-3.52010409	0.0004314	0.0050201
<i>TAF1</i>	0.452484964	0.128553916	3.519806927	0.0004319	0.0050201
<i>TOR3A</i>	-0.205229155	0.058309855	-3.51963066	0.0004321	0.0050201
<i>TPRG1L</i>	-0.254736267	0.072485403	-3.51431125	0.0004409	0.0051169
<i>TET2</i>	0.816821142	0.232530971	3.51274129	0.0004435	0.0051424
<i>KIAA0895L</i>	-0.274378147	0.078121896	-3.51217982	0.0004444	0.0051484
<i>CNPPD1</i>	-0.201697025	0.057432702	-3.51188467	0.0004449	0.0051493
<i>EIF4G3</i>	0.384713954	0.109559227	3.51147013	0.0004456	0.0051525

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>ADAM10</i>	0.523702029	0.14916631	3.510859997	0.0004467	0.0051595
<i>ZDHHC20</i>	0.635543327	0.181068264	3.509965317	0.0004482	0.0051673
<i>ZNF292</i>	1.133813572	0.323009251	3.510158202	0.0004478	0.0051673
<i>ZBTB33</i>	0.725291706	0.2066684	3.50944657	0.000449	0.0051725
<i>ALMS1</i>	1.050674319	0.299490178	3.508209606	0.0004511	0.0051918
<i>AC007318.5</i>	-0.230820733	0.065803623	-3.50772072	0.000452	0.0051965
<i>BUB1B</i>	0.504906752	0.144025762	3.505669706	0.0004555	0.0052319
<i>COPRS</i>	-0.271478265	0.077452873	-3.50507675	0.0004565	0.0052387
<i>LMAN1</i>	0.54200831	0.154649892	3.504744177	0.000457	0.0052403
<i>RSBN1L</i>	0.44358338	0.126604856	3.503683765	0.0004589	0.0052564
<i>DIS3</i>	0.71153804	0.203128288	3.502899794	0.0004602	0.005267
<i>KIAA1468</i>	0.570741198	0.163042834	3.500559853	0.0004643	0.0053085
<i>ZBTB6</i>	0.771784112	0.220577483	3.498925193	0.0004671	0.0053362
<i>MPHOSPH9</i>	0.941999907	0.269323204	3.497655948	0.0004694	0.0053518
<i>RPS23</i>	-0.265431655	0.075883953	-3.49786279	0.000469	0.0053518
<i>CEP152</i>	1.142792794	0.326881566	3.496045401	0.0004722	0.0053793
<i>GFOD2</i>	-0.209112136	0.05984056	-3.4944883	0.000475	0.0054058
<i>CNOT6L</i>	0.604818373	0.173124282	3.493550222	0.0004766	0.0054148
<i>PGM2L1</i>	0.694763173	0.198859686	3.493735641	0.0004763	0.0054148
<i>RBM26</i>	0.43451262	0.124386191	3.493254493	0.0004772	0.0054158
<i>TTC27</i>	0.52529471	0.150446429	3.491573145	0.0004802	0.0054445
<i>UQCC3</i>	-0.338434239	0.096939894	-3.49117609	0.0004809	0.0054481
<i>AMOT</i>	0.232756115	0.066688695	3.490188485	0.0004827	0.0054583
<i>DPY19L3</i>	0.53850862	0.154290949	3.490215229	0.0004826	0.0054583
<i>HSDL2</i>	0.562753597	0.161377721	3.487182705	0.0004881	0.005515
<i>YME1L1</i>	0.381645209	0.109460215	3.486611183	0.0004892	0.0055177
<i>SRP14</i>	-0.22988704	0.065935162	-3.48656217	0.0004893	0.0055177
<i>ESF1</i>	1.138272398	0.326630655	3.484891511	0.0004923	0.0055375
<i>AHI1</i>	0.919012014	0.263714697	3.484872189	0.0004924	0.0055375
<i>ACADSB</i>	0.42692002	0.12248971	3.485354168	0.0004915	0.0055375
<i>CENPE</i>	1.21889272	0.349809064	3.484451509	0.0004931	0.0055412
<i>DENND1B</i>	0.952606313	0.273453635	3.483611817	0.0004947	0.0055535
<i>PPP2R1B</i>	0.337044183	0.096786111	3.482361063	0.000497	0.0055694
<i>MXRA7</i>	-0.184104359	0.052864827	-3.48254916	0.0004967	0.0055694
<i>RNF217</i>	0.467579392	0.134317213	3.481157631	0.0004993	0.0055894
<i>RASSF8</i>	0.840196946	0.241391469	3.480640599	0.0005002	0.005594
<i>TBK1</i>	0.678934456	0.195070718	3.480452945	0.0005006	0.005594
<i>ZC3H7A</i>	0.404520575	0.116240525	3.480030516	0.0005014	0.0055978
<i>TBC1D5</i>	0.329314411	0.094681211	3.478138975	0.0005049	0.0056324
<i>PPIG</i>	0.745393865	0.214382479	3.476934632	0.0005072	0.0056526
<i>ABCD3</i>	0.478551567	0.137655558	3.476442026	0.0005081	0.0056579
<i>SCAMP1</i>	0.647897288	0.186508922	3.473813906	0.0005131	0.0056946
<i>LMBRI</i>	0.333387273	0.095954261	3.474439464	0.0005119	0.0056946

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>SNF8</i>	-0.243147365	0.069995781	-3.47374314	0.0005133	0.0056946
<i>RPSA</i>	-0.209094889	0.060192658	-3.47376069	0.0005132	0.0056946
<i>SPIRE1</i>	0.416187328	0.11984445	3.472729264	0.0005152	0.005711
<i>FEM1B</i>	0.496805946	0.143093356	3.471900856	0.0005168	0.00572
<i>NME1</i>	-0.324513102	0.093470424	-3.47182657	0.0005169	0.00572
<i>PAXBP1</i>	0.750230876	0.216109978	3.471523543	0.0005175	0.0057214
<i>TOMM20</i>	0.282691073	0.081463986	3.470135544	0.0005202	0.0057459
<i>PTPN13</i>	0.823632898	0.237420531	3.469088776	0.0005222	0.0057631
<i>MRFAP1</i>	-0.181056034	0.052207063	-3.46803717	0.0005243	0.0057806
<i>TPT1</i>	-0.226678156	0.065368985	-3.46767131	0.000525	0.0057833
<i>OSBPL8</i>	0.934303599	0.269474722	3.467128903	0.000526	0.0057854
<i>APAF1</i>	0.639061251	0.184321891	3.467093618	0.0005261	0.0057854
<i>RPL34</i>	-0.267942404	0.077378862	-3.46273385	0.0005347	0.0058748
<i>ARNTL2</i>	0.532212689	0.153759918	3.461322656	0.0005375	0.0058847
<i>ERGIC1</i>	-0.183675788	0.053065186	-3.4613237	0.0005375	0.0058847
<i>BUB1</i>	0.467014607	0.134921192	3.461388081	0.0005374	0.0058847
<i>OXSR1</i>	0.283287279	0.081836095	3.461642186	0.0005369	0.0058847
<i>AGL</i>	0.551778347	0.159434759	3.460840983	0.0005385	0.0058848
<i>PDCD6IP</i>	0.359718114	0.103935523	3.460973732	0.0005382	0.0058848
<i>MBTD1</i>	0.774859402	0.223960461	3.459804458	0.0005406	0.0058928
<i>BAG5</i>	0.375087999	0.108409585	3.459915449	0.0005403	0.0058928
<i>RUNDCL</i>	-0.223531462	0.064608888	-3.45976333	0.0005407	0.0058928
<i>IQCE</i>	-0.259165969	0.074929504	-3.45879732	0.0005426	0.0059036
<i>STRN3</i>	0.553015841	0.159881006	3.458921445	0.0005423	0.0059036
<i>PRPF40A</i>	0.541447322	0.156575621	3.458056351	0.0005441	0.0059146
<i>KMT2C</i>	0.633133304	0.183111299	3.457641928	0.0005449	0.0059164
<i>SHTN1</i>	0.411283201	0.118953907	3.45750056	0.0005452	0.0059164
<i>TRMT1L</i>	0.570029398	0.164881985	3.45719635	0.0005458	0.0059179
<i>RPLP1</i>	-0.237211964	0.068619268	-3.45692939	0.0005464	0.0059186
<i>SKIV2L2</i>	0.53494464	0.154791968	3.455894045	0.0005485	0.0059358
<i>NCBP1</i>	0.517440565	0.149736418	3.455676119	0.0005489	0.0059358
<i>CCNT1</i>	0.575885915	0.166672816	3.455188014	0.0005499	0.0059413
<i>TM2D3</i>	-0.260473665	0.075393843	-3.45484003	0.0005506	0.0059438
<i>RMND5A</i>	0.373947379	0.10828386	3.453399063	0.0005536	0.0059704
<i>HDDC2</i>	-0.227526787	0.065935101	-3.45076877	0.000559	0.0060237
<i>RNF130</i>	-0.212117351	0.061474747	-3.45047945	0.0005596	0.0060249
<i>NEMPI</i>	0.488004133	0.141486722	3.449116111	0.0005624	0.0060501
<i>GTF2A2</i>	-0.252233163	0.073140006	-3.44863472	0.0005634	0.0060556
<i>AAK1</i>	0.517105948	0.149976861	3.447904871	0.000565	0.0060599
<i>CTDSPL2</i>	0.669097933	0.194080053	3.447535811	0.0005657	0.0060599
<i>ZNF41</i>	0.862599457	0.250232371	3.447193715	0.0005664	0.0060599
<i>GTF2A1</i>	0.657278287	0.1906567	3.447443939	0.0005659	0.0060599
<i>CCT2</i>	0.23590484	0.068420444	3.447870657	0.000565	0.0060599

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>FANCM</i>	1.214815352	0.352422831	3.447039312	0.0005668	0.0060599
<i>FAT4</i>	0.959841629	0.278638281	3.44475865	0.0005716	0.006106
<i>CTTNBP2NL</i>	0.399802161	0.116090664	3.443878656	0.0005734	0.0061206
<i>PPP4R2</i>	0.630232165	0.183099943	3.442011795	0.0005774	0.0061577
<i>COG6</i>	0.732730772	0.212899293	3.441677811	0.0005781	0.00616
<i>THUMPD1</i>	0.721030757	0.209720243	3.438059889	0.0005859	0.0062375
<i>ISCU</i>	-0.21808564	0.063440649	-3.43763253	0.0005868	0.0062419
<i>DDX23</i>	-0.232765756	0.067727856	-3.43678021	0.0005887	0.0062562
<i>RABEP1</i>	0.606312124	0.176504355	3.435111412	0.0005923	0.0062895
<i>ANAPC1</i>	0.478694936	0.139451959	3.432687067	0.0005976	0.0063405
<i>PECR</i>	-0.351243555	0.102346871	-3.43189344	0.0005994	0.0063449
<i>CAMK2D</i>	0.371318068	0.108193987	3.431965858	0.0005992	0.0063449
<i>MMGT1</i>	0.458935092	0.133729998	3.431803628	0.0005996	0.0063449
<i>USP8</i>	0.568820934	0.165761751	3.431557223	0.0006001	0.0063452
<i>GRHPR</i>	-0.241814911	0.070508095	-3.42960492	0.0006045	0.0063856
<i>NDUFB2</i>	-0.238191241	0.069464871	-3.42894529	0.0006059	0.0063957
<i>CHML</i>	1.032125572	0.301172834	3.427020814	0.0006102	0.0064357
<i>GOLIM4</i>	0.401635013	0.11725861	3.425207012	0.0006143	0.0064733
<i>KIF23</i>	0.633245278	0.184901793	3.424765485	0.0006153	0.0064783
<i>CDC16</i>	0.338279432	0.098798074	3.423947636	0.0006172	0.0064923
<i>BLOC1S6</i>	0.656897837	0.191911295	3.422924315	0.0006195	0.0065112
<i>MPP5</i>	0.517782773	0.151305433	3.422102971	0.0006214	0.0065254
<i>ATAD1</i>	0.444014535	0.129758724	3.421847269	0.000622	0.006526
<i>TOR1B</i>	-0.252031444	0.07367562	-3.42082555	0.0006243	0.006545
<i>ARMC9</i>	-0.360956895	0.105559549	-3.41946226	0.0006275	0.0065723
<i>ATXN1</i>	0.334159072	0.097747689	3.418587943	0.0006295	0.0065878
<i>OGT</i>	0.425961835	0.124618777	3.4181192	0.0006306	0.006588
<i>CTB-63M22.1</i>	-0.297588803	0.087059514	-3.41822265	0.0006303	0.006588
<i>TMED8</i>	0.461830598	0.135141059	3.417396625	0.0006322	0.0066
<i>CNOT6</i>	0.477227538	0.139658827	3.417095407	0.0006329	0.0066017
<i>RACGAP1</i>	0.407135779	0.119206334	3.415387133	0.0006369	0.0066321
<i>MRPS6</i>	-0.212332554	0.062165632	-3.41559391	0.0006364	0.0066321
<i>ZNF24</i>	0.64168745	0.187946501	3.41420269	0.0006397	0.0066554
<i>ARID2</i>	0.808731296	0.236897228	3.413848715	0.0006405	0.0066584
<i>IPMK</i>	0.857919831	0.251328398	3.413541157	0.0006412	0.0066603
<i>METAP2</i>	0.418019967	0.122495669	3.412528547	0.0006436	0.0066795
<i>FOXN3</i>	0.326531656	0.09570711	3.411780542	0.0006454	0.0066866
<i>NFIB</i>	0.458646573	0.134429536	3.411799124	0.0006454	0.0066866
<i>ITSN1</i>	0.296380492	0.086879132	3.41141175	0.0006463	0.0066901
<i>IFIT2</i>	1.004398013	0.294504488	3.41046759	0.0006485	0.0067005
<i>TMEM261</i>	-0.226965783	0.066557424	-3.41007463	0.0006495	0.0067005
<i>SSBP3</i>	-0.278613227	0.081702568	-3.41009142	0.0006494	0.0067005
<i>RP11-61N20.3</i>	-0.49664166	0.145616768	-3.41060762	0.0006482	0.0067005

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>PEAK1</i>	0.471375577	0.13825803	3.409390222	0.0006511	0.0067117
<i>SNRPGP2</i>	-0.221113215	0.064859816	-3.40909406	0.0006518	0.0067134
<i>SNHG6</i>	-0.273928247	0.080370428	-3.40832135	0.0006536	0.0067269
<i>COX17</i>	-0.233052409	0.068402377	-3.40708058	0.0006566	0.0067519
<i>CRIM1</i>	0.273925105	0.080447727	3.405007372	0.0006616	0.0067967
<i>NHLRC2</i>	0.679806464	0.199668738	3.404671516	0.0006624	0.0067967
<i>RCN1P2</i>	-0.287483008	0.084439707	-3.40459503	0.0006626	0.0067967
<i>SSU72</i>	-0.20148279	0.059185701	-3.40424776	0.0006635	0.0067997
<i>EIF3I</i>	-0.204364846	0.060050771	-3.40320104	0.000666	0.0068097
<i>KAT2B</i>	0.597717378	0.175635554	3.403168459	0.0006661	0.0068097
<i>POLR2M</i>	0.658663176	0.193534401	3.403339008	0.0006657	0.0068097
<i>TBC1D31</i>	0.724351196	0.212876823	3.402677597	0.0006673	0.0068163
<i>PNMA1</i>	-0.193831458	0.056976345	-3.40196374	0.000669	0.0068228
<i>WBSCR16</i>	-0.232225135	0.068257604	-3.40218705	0.0006685	0.0068228
<i>SMARCAD1</i>	0.835796313	0.245849666	3.399623537	0.0006748	0.0068758
<i>TMSB10</i>	-0.178708578	0.052572611	-3.39927151	0.0006757	0.006879
<i>DOLPP1</i>	-0.265760629	0.078197648	-3.39857575	0.0006774	0.0068908
<i>UBE3A</i>	0.479838774	0.141263293	3.396768991	0.0006819	0.0069308
<i>KDEL2C</i>	0.502080772	0.147943946	3.393722994	0.0006895	0.0070026
<i>NCOA7</i>	0.647031005	0.190678118	3.393315462	0.0006905	0.0070073
<i>SMIM12</i>	-0.279203594	0.082313914	-3.39193682	0.000694	0.0070368
<i>PRICKLE2</i>	0.380278502	0.112145076	3.390951396	0.0006965	0.0070564
<i>MOB4</i>	0.659190197	0.194430921	3.390356814	0.000698	0.0070659
<i>CHCHD3</i>	-0.18796559	0.05544964	-3.38984331	0.0006993	0.0070734
<i>NRBP1</i>	-0.162867841	0.048049504	-3.38958424	0.0007	0.0070743
<i>CHCHD5</i>	-0.295513201	0.087220878	-3.38810164	0.0007038	0.007102
<i>ICE2</i>	0.58215718	0.17182591	3.388063996	0.0007039	0.007102
<i>DBI</i>	-0.238089117	0.070309773	-3.38628764	0.0007085	0.0071423
<i>DPY30</i>	-0.29311423	0.086580228	-3.38546382	0.0007106	0.0071579
<i>NOP10</i>	-0.199283124	0.058934471	-3.38143568	0.0007211	0.007254
<i>PRPF39</i>	0.740608248	0.219027062	3.381354982	0.0007213	0.007254
<i>RFX3-AS1</i>	0.998083796	0.295205103	3.380984222	0.0007223	0.0072579
<i>KPNA4</i>	0.443184941	0.131102386	3.38044908	0.0007237	0.0072661
<i>ZFX</i>	0.918041678	0.271614229	3.379946922	0.000725	0.0072735
<i>CYLD</i>	0.357662451	0.1059174	3.376805435	0.0007333	0.0073511
<i>VAMP3</i>	0.27535496	0.081549737	3.376527893	0.0007341	0.0073526
<i>ZFP91</i>	0.329427709	0.097626366	3.374372352	0.0007398	0.0074044
<i>GNAI3</i>	0.319387962	0.094690854	3.372954699	0.0007437	0.0074366
<i>SLC44A5</i>	0.721892148	0.214039208	3.372709866	0.0007443	0.0074372
<i>HERC5</i>	0.815568676	0.24198818	3.370283112	0.0007509	0.007497
<i>SMAD4</i>	0.466292734	0.13846056	3.367693554	0.000758	0.0075616
<i>POP7</i>	-0.243572481	0.072423	-3.36319235	0.0007705	0.0076798
<i>SETX</i>	0.863186476	0.256711898	3.362471638	0.0007725	0.0076937

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>FUCA2</i>	-0.146188289	0.043486789	-3.36167124	0.0007747	0.0077036
<i>SEC63</i>	0.552694541	0.164409192	3.361700977	0.0007746	0.0077036
<i>PLEKHG1</i>	0.375893479	0.111847165	3.360777878	0.0007772	0.0077223
<i>PAPOLA</i>	0.440408815	0.131058452	3.360399944	0.0007783	0.0077267
<i>PIBF1</i>	1.322309279	0.393585767	3.359647094	0.0007804	0.0077416
<i>AK2</i>	-0.213583965	0.06358612	-3.35897152	0.0007823	0.0077543
<i>MBTPS2</i>	0.547826673	0.163271241	3.355316404	0.0007927	0.0078202
<i>MTMR2</i>	0.430555713	0.128320874	3.355305344	0.0007928	0.0078202
<i>SERINC1</i>	0.533290396	0.158890807	3.356332613	0.0007898	0.0078202
<i>SENP5</i>	0.357334472	0.106472589	3.356117071	0.0007905	0.0078202
<i>ICA1L</i>	0.917567485	0.273438979	3.355657224	0.0007918	0.0078202
<i>PRKDC</i>	0.533115884	0.158871199	3.3556484	0.0007918	0.0078202
<i>FIGNL1</i>	0.757595776	0.225968143	3.352666294	0.0008004	0.0078888
<i>SEC24B</i>	0.561253473	0.167433815	3.352091531	0.000802	0.0078989
<i>RAD50</i>	0.633818387	0.189169791	3.350526438	0.0008066	0.0079374
<i>PIK3C3</i>	0.733805138	0.219236907	3.347087624	0.0008167	0.0080301
<i>DDX60L</i>	0.849793206	0.254236969	3.342524133	0.0008302	0.0081568
<i>GABARAPL2</i>	-0.245606363	0.073518139	-3.3407587	0.0008355	0.0082023
<i>TMEM14B</i>	-0.225122833	0.067409541	-3.33962863	0.0008389	0.0082293
<i>PIK3CB</i>	0.47277782	0.141631973	3.338072678	0.0008436	0.0082689
<i>MAP4K3</i>	0.491797297	0.14736063	3.337372389	0.0008457	0.0082832
<i>PRDM6</i>	0.814497684	0.244098537	3.336757754	0.0008476	0.008295
<i>UGGT1</i>	0.445101414	0.133436659	3.335675639	0.0008509	0.0083204
<i>INPP5F</i>	0.525223151	0.157466165	3.335466717	0.0008516	0.0083204
<i>CNTN1</i>	0.757604319	0.227162441	3.335077385	0.0008528	0.0083255
<i>UGT8</i>	0.561456754	0.168380978	3.334442883	0.0008547	0.0083379
<i>PSMD7</i>	-0.263303347	0.078983856	-3.33363501	0.0008572	0.008349
<i>AKAP6</i>	0.806459162	0.241908652	3.333734262	0.0008569	0.008349
<i>CNOT1</i>	0.504222151	0.151321002	3.332135945	0.0008618	0.0083757
<i>INTS7</i>	0.524470807	0.157406817	3.331944676	0.0008624	0.0083757
<i>CCSAP</i>	0.642095064	0.192713095	3.331870432	0.0008626	0.0083757
<i>INTU</i>	0.996584474	0.299051629	3.332483012	0.0008607	0.0083757
<i>RAB5C</i>	-0.234735655	0.070461612	-3.33139777	0.0008641	0.0083834
<i>FAM160B1</i>	0.783559028	0.235275562	3.330388508	0.0008672	0.0084072
<i>TIPARP</i>	0.656951662	0.197279322	3.3300584	0.0008683	0.0084106
<i>TMEM154</i>	0.642457929	0.192951077	3.329641572	0.0008696	0.0084166
<i>RGP1</i>	-0.167994136	0.050463081	-3.3290503	0.0008714	0.0084279
<i>MED14</i>	0.441888669	0.132787167	3.327796494	0.0008754	0.0084593
<i>JPH4</i>	-0.51336456	0.154300346	-3.32704736	0.0008777	0.0084754
<i>RBMS3</i>	0.612234559	0.184055589	3.326356798	0.0008799	0.0084898
<i>CHMP2A</i>	-0.235872338	0.070964506	-3.32380725	0.000888	0.0085611
<i>ZNF304</i>	0.616082889	0.185387214	3.323222111	0.0008898	0.0085724
<i>ATP5J</i>	-0.23443602	0.070549864	-3.32298333	0.0008906	0.0085731

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>MRPS7</i>	-0.228875486	0.068898505	-3.32192238	0.000894	0.0085991
<i>NUP205</i>	0.391424671	0.117953768	3.318458379	0.0009052	0.0086997
<i>GALNT1</i>	0.706899211	0.213154967	3.316362839	0.000912	0.0087583
<i>VAC14-AS1</i>	-1.093230687	0.329681621	-3.31601951	0.0009131	0.0087623
<i>AMFR</i>	-0.145373652	0.043850151	-3.31523724	0.0009157	0.0087732
<i>DPYD</i>	0.452591445	0.136515788	3.315304796	0.0009154	0.0087732
<i>FUS</i>	-0.226914642	0.068476801	-3.31374478	0.0009206	0.0088134
<i>CLIC4</i>	0.455454624	0.137487909	3.312688571	0.000924	0.0088399
<i>TACCI</i>	0.456031374	0.13776553	3.310199395	0.0009323	0.0089051
<i>RP11-20O24.4</i>	-0.284842218	0.086048592	-3.31024843	0.0009321	0.0089051
<i>CCDC12</i>	-0.241359315	0.072928602	-3.3095289	0.0009345	0.0089195
<i>UCHLI</i>	-0.176034133	0.053211348	-3.30820657	0.000939	0.0089549
<i>MECOM</i>	0.899136961	0.271892636	3.306955913	0.0009432	0.0089866
<i>C11orf73</i>	-0.231222487	0.069923669	-3.30678423	0.0009437	0.0089866
<i>GTF2H5</i>	-0.310104007	0.093797146	-3.30611347	0.000946	0.0090012
<i>DNAJB5</i>	-0.214528455	0.06491756	-3.30462907	0.000951	0.009042
<i>GPBP1L1</i>	0.262368427	0.079435951	3.302892759	0.0009569	0.0090912
<i>MOBIA</i>	0.387420791	0.117319278	3.302277332	0.000959	0.0091042
<i>TCERG1</i>	0.346424439	0.104936156	3.301287691	0.0009624	0.0091229
<i>CWC22</i>	0.764501676	0.231593084	3.301055725	0.0009632	0.0091229
<i>IARS</i>	0.342481318	0.103748079	3.301085886	0.0009631	0.0091229
<i>TMEM106C</i>	-0.156978673	0.047570399	-3.29992336	0.0009671	0.0091458
<i>SASS6</i>	1.012470487	0.306797164	3.300129873	0.0009664	0.0091458
<i>CTD-3035D6.1</i>	-0.357918853	0.108497843	-3.29885686	0.0009708	0.0091736
<i>FAM50A</i>	-0.204101697	0.061889667	-3.29783156	0.0009743	0.0092001
<i>GNB4</i>	0.712708933	0.216258751	3.29563049	0.000982	0.0092583
<i>ASNA1</i>	-0.233103402	0.070729122	-3.29572027	0.0009817	0.0092583
<i>PLCE1</i>	0.810340285	0.246118081	3.292485791	0.0009931	0.0093553
<i>DOCK10</i>	1.081198055	0.328514217	3.291175839	0.0009977	0.0093919
<i>RP13-383K5.4</i>	-0.325152069	0.098863335	-3.28890453	0.0010058	0.0094608
<i>EBF1</i>	0.584541892	0.177748333	3.288592822	0.0010069	0.0094641
<i>HEBPI</i>	-0.275471264	0.083831284	-3.28601987	0.0010161	0.009543
<i>ANKMY2</i>	0.400443554	0.12186994	3.285827117	0.0010168	0.009543
<i>OFD1</i>	0.684530034	0.208400939	3.284678269	0.001021	0.0095674
<i>YKT6</i>	-0.174610872	0.053158548	-3.28471861	0.0010208	0.0095674
<i>AP5MI</i>	0.569989658	0.173558226	3.284140839	0.0010229	0.0095712
<i>AC002310.14</i>	-0.457924407	0.139426733	-3.28433722	0.0010222	0.0095712
<i>PALLD</i>	0.215231301	0.065545178	3.283709184	0.0010245	0.0095726
<i>ATAD5</i>	0.94831865	0.288798093	3.283673517	0.0010246	0.0095726
<i>KAT6A</i>	0.446225516	0.135925146	3.28287687	0.0010275	0.0095924
<i>ARIH1</i>	0.355346868	0.108270115	3.282040197	0.0010306	0.0096111
<i>ATF7IP</i>	0.541068483	0.16486431	3.28190185	0.0010311	0.0096111
<i>MITF</i>	0.543325583	0.165568412	3.281577543	0.0010323	0.0096149

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>UROS</i>	-0.226857895	0.069151894	-3.28057385	0.001036	0.0096419
<i>GNAS</i>	-0.221291084	0.067463077	-3.28018073	0.0010374	0.0096425
<i>ZNF765</i>	0.786887142	0.239894913	3.280132674	0.0010376	0.0096425
<i>CCDC132</i>	0.755827098	0.230483647	3.279309002	0.0010406	0.0096562
<i>COX4II</i>	-0.20403002	0.062214704	-3.27945013	0.0010401	0.0096562
<i>EML4</i>	0.511179253	0.155911938	3.278640873	0.0010431	0.0096718
<i>SSR1</i>	0.313117472	0.095514181	3.278230209	0.0010446	0.0096786
<i>RPS10P3</i>	-0.398872362	0.12173468	-3.27657132	0.0010508	0.0097284
<i>SLC25A46</i>	0.492880661	0.150438877	3.276285175	0.0010518	0.0097309
<i>SLC35B1</i>	-0.204019924	0.062302617	-3.27466061	0.0010579	0.0097724
<i>NSMCE1</i>	-0.284317963	0.086822527	-3.27470268	0.0010577	0.0097724
<i>LDAH</i>	0.545110819	0.166492639	3.274083595	0.0010601	0.0097851
<i>CAPRIN2</i>	0.588711696	0.179990958	3.270784834	0.0010725	0.0098926
<i>AMZ2P1</i>	-0.489553887	0.149697735	-3.27028252	0.0010744	0.0099028
<i>DIAPH3</i>	0.567365716	0.173550279	3.269172014	0.0010786	0.0099343
<i>RP11-408P14.1</i>	-0.321486578	0.098386341	-3.26759359	0.0010847	0.0099824
<i>ENGASE</i>	-0.282467542	0.086458095	-3.26710347	0.0010865	0.0099923
<i>TBCEL</i>	0.467590971	0.143143358	3.266592169	0.0010885	0.0100029
<i>GTF3C6</i>	-0.22731427	0.069603179	-3.26586045	0.0010913	0.0100213
<i>COX8A</i>	-0.263396817	0.080659307	-3.26554773	0.0010925	0.010025
<i>MYBL1</i>	0.835421947	0.256094262	3.262165815	0.0011056	0.0101378
<i>TAF9B</i>	0.586329808	0.179772417	3.261511511	0.0011082	0.0101537
<i>ATP5I</i>	-0.335945984	0.103022554	-3.26089747	0.0011106	0.0101682
<i>SYNCRIP</i>	0.377742621	0.115873277	3.259963216	0.0011143	0.0101942
<i>CEP55</i>	0.564166209	0.173169239	3.257889293	0.0011224	0.0102614
<i>PIGC</i>	-0.21452785	0.065877407	-3.25647075	0.0011281	0.0103052
<i>C5orf34</i>	0.75764976	0.232715474	3.255691367	0.0011312	0.0103259
<i>TRHDE</i>	0.949574401	0.291776052	3.254463125	0.0011361	0.010363
<i>MRPL43</i>	-0.223049481	0.068588773	-3.25198235	0.001146	0.0104375
<i>FAM135A</i>	0.943343722	0.290099098	3.251798195	0.0011468	0.0104375
<i>ELOF1</i>	-0.222034872	0.068275396	-3.25204809	0.0011458	0.0104375
<i>CEP95</i>	0.50459766	0.155201799	3.251235893	0.001149	0.0104505
<i>EMC4</i>	-0.195408846	0.060133862	-3.2495642	0.0011558	0.0105044
<i>ACER3</i>	0.50993158	0.156944387	3.249122759	0.0011576	0.0105129
<i>CAV1</i>	0.292976032	0.090176922	3.248902573	0.0011585	0.0105134
<i>SEL1L</i>	0.542637619	0.167079429	3.247782335	0.0011631	0.0105471
<i>PIN1</i>	-0.211525236	0.065163585	-3.24606507	0.0011701	0.0106031
<i>AVL9</i>	0.333538002	0.102780475	3.245149457	0.0011739	0.0106295
<i>FAM73A</i>	0.699352118	0.215568408	3.2442236	0.0011777	0.0106563
<i>RPL5</i>	-0.227728681	0.070220013	-3.24307374	0.0011825	0.0106916
<i>TM9SF3</i>	0.39923185	0.123166687	3.24139474	0.0011895	0.0107469
<i>WDR47</i>	0.481249074	0.148634229	3.237807848	0.0012045	0.010875
<i>RALGAPB</i>	0.351964465	0.108714834	3.237501735	0.0012058	0.0108772

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>SHCBP1</i>	0.394962533	0.122002475	3.237332126	0.0012065	0.0108772
<i>LIN7C</i>	0.615238946	0.190072669	3.236861724	0.0012085	0.0108872
<i>MLLT10</i>	0.452911147	0.139945631	3.236336461	0.0012107	0.0108994
<i>KIF18A</i>	0.933478117	0.288483061	3.235816048	0.001213	0.0109113
<i>DOCK9</i>	0.495192243	0.153047085	3.235554889	0.0012141	0.0109133
<i>PHTF2</i>	0.498741193	0.154162473	3.235166018	0.0012157	0.0109203
<i>TMEM208</i>	-0.265857099	0.08221816	-3.2335569	0.0012226	0.010974
<i>FN3KRP</i>	-0.188440097	0.058289432	-3.23283468	0.0012257	0.0109938
<i>ASAP1</i>	0.368718636	0.114077023	3.232190205	0.0012285	0.0110106
<i>ZNF91</i>	0.647424391	0.200322337	3.231913137	0.0012296	0.0110133
<i>C4orf29</i>	0.584544967	0.180999754	3.229534598	0.0012399	0.0110973
<i>ANP32E</i>	0.480220213	0.148713089	3.229172479	0.0012415	0.0111033
<i>SECISBP2</i>	0.349361121	0.108207385	3.228625492	0.0012439	0.0111166
<i>SAMD5</i>	0.671364961	0.208006729	3.227611738	0.0012483	0.011148
<i>TAX1BP1</i>	0.501387039	0.155406278	3.226298479	0.001254	0.0111753
<i>PTDSS1</i>	-0.199185299	0.061730847	-3.22667367	0.0012524	0.0111753
<i>TMA7</i>	-0.306546853	0.095015261	-3.2262907	0.0012541	0.0111753
<i>ZNF84</i>	0.832712365	0.258139564	3.225822311	0.0012561	0.0111856
<i>DNAJC19P9</i>	-0.27164408	0.08421804	-3.22548566	0.0012576	0.0111907
<i>RSAD1</i>	-0.200613781	0.062220724	-3.22422768	0.0012631	0.0112319
<i>USP16</i>	0.690541386	0.214210846	3.223652768	0.0012657	0.0112463
<i>ABCD4</i>	-0.283808014	0.088066392	-3.22265972	0.0012701	0.0112773
<i>HACE1</i>	0.662304169	0.205537288	3.222306643	0.0012716	0.0112831
<i>AASS</i>	0.460991074	0.143156357	3.220192828	0.001281	0.0113585
<i>RRM1</i>	0.470823093	0.146295375	3.218304704	0.0012895	0.0114253
<i>CXorf56</i>	-0.203294627	0.06320167	-3.21660217	0.0012972	0.0114764
<i>HEMK1</i>	-0.328216795	0.102049065	-3.2162646	0.0012987	0.0114764
<i>BBS10</i>	0.764075646	0.237570664	3.216203688	0.001299	0.0114764
<i>FITM2</i>	-0.294706533	0.091625454	-3.21642646	0.001298	0.0114764
<i>TMEM87B</i>	0.343753615	0.10692975	3.214761223	0.0013055	0.011526
<i>CFAP97</i>	0.53491214	0.166499402	3.212697061	0.0013149	0.0116008
<i>SKAP2</i>	0.453644753	0.141240384	3.21186292	0.0013188	0.0116263
<i>RIOK3</i>	0.527851997	0.164373254	3.21130101	0.0013214	0.0116407
<i>POLR2L</i>	-0.22230319	0.069285593	-3.20850526	0.0013343	0.0117461
<i>KIAA1429</i>	0.533636773	0.166400302	3.206945935	0.0013415	0.0117932
<i>TMEM41B</i>	0.398915458	0.12438857	3.207010556	0.0013412	0.0117932
<i>RPL24</i>	-0.257601695	0.080335665	-3.20656706	0.0013433	0.0118003
<i>TMED9</i>	-0.216326724	0.067514493	-3.20415238	0.0013546	0.0118913
<i>ZNF614</i>	0.800604945	0.249904348	3.203645517	0.001357	0.0119038
<i>COX6B1</i>	-0.198729683	0.062037146	-3.20339823	0.0013582	0.0119056
<i>CLK4</i>	0.639469741	0.199747384	3.201392312	0.0013677	0.0119633
<i>MTMR6</i>	0.610686931	0.190752197	3.20146736	0.0013673	0.0119633
<i>RNF169</i>	0.474683369	0.148273894	3.201395443	0.0013676	0.0119633

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>MAGEA6</i>	-0.187646667	0.058618972	-3.20112519	0.0013689	0.011966
<i>SLFN5</i>	0.436226137	0.136286751	3.200796352	0.0013705	0.0119668
<i>GLRX5</i>	-0.2628094	0.082110071	-3.2006963	0.001371	0.0119668
<i>PFN1P1</i>	-0.475788629	0.148709024	-3.19946037	0.0013769	0.0120098
<i>RPS7P10</i>	-0.551754619	0.172637283	-3.19603396	0.0013933	0.0121448
<i>STAG1</i>	0.600527191	0.187971015	3.19478613	0.0013993	0.0121888
<i>SLC30A6</i>	0.549501958	0.172043359	3.193973672	0.0014033	0.0122145
<i>NEK1</i>	0.845959405	0.264948213	3.192923612	0.0014084	0.0122418
<i>ADAM9</i>	0.432478481	0.135447239	3.192966383	0.0014082	0.0122418
<i>ILF2</i>	-0.195431096	0.061221682	-3.19218765	0.001412	0.0122558
<i>IGFBP7</i>	-0.257144292	0.080553632	-3.19221227	0.0014119	0.0122558
<i>IPO8</i>	0.457660844	0.143396376	3.191578873	0.001415	0.012273
<i>TRIM23</i>	0.688799746	0.215863678	3.190901549	0.0014183	0.0122932
<i>AP2M1</i>	-0.171722224	0.053832705	-3.18992375	0.0014231	0.0123262
<i>CXXCI</i>	-0.278688085	0.087400271	-3.18864099	0.0014294	0.0123637
<i>ZWILCH</i>	0.500383183	0.156917792	3.188823745	0.0014285	0.0123637
<i>RPL24P2</i>	-0.479266614	0.150405759	-3.18649111	0.0014401	0.0124473
<i>SH3BGRL2</i>	0.627371222	0.19702082	3.184288953	0.0014511	0.0125336
<i>NRCAM</i>	0.44954973	0.141221729	3.183290082	0.0014561	0.0125682
<i>VPS13D</i>	0.469888096	0.147703386	3.18129535	0.0014662	0.0125847
<i>COX6A1</i>	-0.292020849	0.091784872	-3.1815793	0.0014647	0.0125847
<i>HSPE1</i>	-0.290994837	0.091431552	-3.18265228	0.0014593	0.0125847
<i>MCM8</i>	0.618544987	0.194426838	3.181376578	0.0014658	0.0125847
<i>FBXO38</i>	0.564288942	0.177357682	3.181643649	0.0014644	0.0125847
<i>PPP4C</i>	-0.227073896	0.071369658	-3.18165875	0.0014643	0.0125847
<i>PTPN14</i>	0.363772494	0.114336065	3.181607605	0.0014646	0.0125847
<i>POLR3K</i>	-0.38381085	0.120621882	-3.18193385	0.001463	0.0125847
<i>ZNF184</i>	0.687203647	0.216034645	3.180988148	0.0014677	0.0125893
<i>RMND5B</i>	-0.254835972	0.080138271	-3.17995346	0.001473	0.0126081
<i>FAM217B</i>	0.57012961	0.179279489	3.180116219	0.0014722	0.0126081
<i>ZFP62</i>	0.644241481	0.20257105	3.180323544	0.0014711	0.0126081
<i>PRMT2</i>	-0.230287552	0.072423155	-3.17975036	0.001474	0.0126082
<i>GOLT1B</i>	0.488551733	0.153657585	3.179483352	0.0014754	0.0126103
<i>ERAP2</i>	0.678075731	0.21327824	3.179301036	0.0014763	0.0126103
<i>SNX30</i>	0.52160479	0.164108907	3.178406336	0.0014809	0.0126406
<i>RP1-24IP17.4</i>	-0.300466681	0.094552983	-3.17775993	0.0014842	0.0126601
<i>EIF5</i>	0.296524609	0.093355117	3.176308028	0.0014916	0.0127148
<i>NUDT1</i>	-0.282355495	0.088911304	-3.1756985	0.0014948	0.0127242
<i>HSPA4</i>	0.291823064	0.091892666	3.17569481	0.0014948	0.0127242
<i>POP5</i>	-0.250337604	0.07885777	-3.17454581	0.0015007	0.0127659
<i>ZBTB43</i>	0.588518027	0.185529501	3.172099449	0.0015134	0.0128602
<i>SGTB</i>	0.613861098	0.1935244	3.172008798	0.0015139	0.0128602
<i>TTLL1</i>	-0.429661252	0.135478726	-3.17142967	0.0015169	0.012877

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>SYT1</i>	0.71269256	0.224744406	3.171124799	0.0015185	0.0128817
<i>EPT1</i>	0.571973436	0.180412248	3.170369208	0.0015225	0.0129064
<i>C17orf80</i>	0.498557196	0.157270255	3.170066687	0.001524	0.012911
<i>PSMB1</i>	-0.155290262	0.048989916	-3.16984138	0.0015252	0.0129122
<i>RMI1</i>	0.654583276	0.206553367	3.169075798	0.0015292	0.0129374
<i>EFHC1</i>	0.559948721	0.176732466	3.168341007	0.0015331	0.012952
<i>KDM3A</i>	0.430130059	0.135763895	3.168221259	0.0015337	0.012952
<i>WDR41</i>	0.31566449	0.099636865	3.168149562	0.0015341	0.012952
<i>EFCAB14</i>	0.4047031	0.127752674	3.167864012	0.0015356	0.0129559
<i>HECA</i>	0.621688769	0.196290453	3.167188006	0.0015392	0.0129608
<i>PRKD3</i>	0.686088655	0.216602682	3.167498433	0.0015376	0.0129608
<i>TBC1D9B</i>	-0.290676731	0.091778392	-3.16715868	0.0015394	0.0129608
<i>TLK1</i>	0.598058471	0.188891341	3.166150801	0.0015447	0.012997
<i>C7orf50</i>	-0.226544339	0.071566407	-3.16551226	0.0015481	0.01301
<i>EPS8</i>	0.371696138	0.117422298	3.165464689	0.0015484	0.01301
<i>IST1</i>	-0.197704504	0.06248876	-3.16384102	0.001557	0.0130473
<i>AMZ2</i>	-0.228122545	0.072102886	-3.16384762	0.001557	0.0130473
<i>FAM169A</i>	0.97098553	0.306898646	3.163863847	0.0015569	0.0130473
<i>LRIG2</i>	0.402922148	0.127338934	3.164170884	0.0015553	0.0130473
<i>RC3H1</i>	0.640738373	0.20257635	3.162947565	0.0015618	0.0130697
<i>PIGA</i>	0.93181339	0.294594597	3.163036249	0.0015613	0.0130697
<i>DEF8</i>	-0.241798753	0.076498938	-3.16081189	0.0015733	0.013157
<i>HACD2</i>	0.440302361	0.139338141	3.159955752	0.0015779	0.0131868
<i>COX17P1</i>	-0.368594084	0.116677883	-3.15907416	0.0015827	0.0132178
<i>SNX3</i>	-0.224186263	0.070978371	-3.15851519	0.0015858	0.0132342
<i>GXYLT1</i>	0.676883785	0.21439631	3.157161545	0.0015931	0.0132868
<i>SPTY2D1</i>	0.49300206	0.156163535	3.156960163	0.0015942	0.0132871
<i>KCTD9</i>	0.479889023	0.152171072	3.153615324	0.0016126	0.0134312
<i>CTB-89H12.4</i>	0.88974942	0.28225419	3.152298363	0.0016199	0.0134829
<i>SNTB2</i>	0.366935548	0.116452744	3.150939472	0.0016275	0.0135366
<i>LRRC40</i>	0.625653239	0.198702736	3.148689607	0.00164	0.0136321
<i>CHIC1</i>	0.805555502	0.255893961	3.148005133	0.0016439	0.0136549
<i>RPAP2</i>	0.566168021	0.17992697	3.146654561	0.0016515	0.0136843
<i>NUDT2</i>	-0.203548408	0.064688568	-3.14659011	0.0016519	0.0136843
<i>FAM175B</i>	0.562783162	0.178844613	3.146771675	0.0016508	0.0136843
<i>ZNF845</i>	0.819238588	0.260342414	3.146773416	0.0016508	0.0136843
<i>ATP6V1F</i>	-0.229112184	0.072820428	-3.14626253	0.0016537	0.0136905
<i>CYB5R1</i>	-0.223911791	0.071176979	-3.14584567	0.0016561	0.0137009
<i>DESI2</i>	0.440130604	0.139919657	3.145595219	0.0016575	0.0137034
<i>ADAM17</i>	0.399503191	0.127028756	3.144982313	0.001661	0.013723
<i>UBLCP1</i>	0.535262305	0.170235153	3.144252492	0.0016651	0.0137481
<i>EXOC2</i>	0.425617166	0.135387373	3.143699117	0.0016683	0.0137649
<i>TMED5</i>	0.493023193	0.156949477	3.141285989	0.0016821	0.0138696

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>NUDT21</i>	0.296981203	0.094625279	3.138497524	0.0016982	0.0139929
<i>DLGAP5</i>	0.708468196	0.225795592	3.137652913	0.0017031	0.0140239
<i>RARB</i>	0.396488838	0.126417923	3.136334058	0.0017107	0.0140777
<i>EIF3FP3</i>	-0.219453294	0.069983418	-3.13578989	0.0017139	0.0140945
<i>NIPSNAP1</i>	-0.191178014	0.060974977	-3.13535196	0.0017165	0.0140998
<i>CENPW</i>	-0.200152531	0.063838625	-3.13528887	0.0017168	0.0140998
<i>PPP4R1</i>	0.263022971	0.083902953	3.134847612	0.0017194	0.0141117
<i>PDCD5</i>	-0.286559338	0.091436107	-3.13398443	0.0017245	0.0141439
<i>CPA6</i>	0.561071288	0.179053258	3.133544146	0.0017271	0.0141557
<i>CDC40</i>	0.469267868	0.149777424	3.133101486	0.0017297	0.0141677
<i>ZNF558</i>	0.610456099	0.194905156	3.132067469	0.0017358	0.0142083
<i>CYB5A</i>	-0.343361265	0.109649581	-3.13144166	0.0017395	0.0142292
<i>SRI</i>	-0.199322019	0.063672189	-3.13044082	0.0017454	0.0142589
<i>USP15</i>	0.591893274	0.189076577	3.130442085	0.0017454	0.0142589
<i>CHUK</i>	0.504693478	0.161239232	3.130091061	0.0017475	0.0142664
<i>VPS54</i>	0.594540168	0.19000384	3.129095538	0.0017535	0.0143028
<i>EIF2AK3</i>	0.488598404	0.156153879	3.128954644	0.0017543	0.0143028
<i>PRPF38B</i>	0.375719094	0.120099241	3.12840524	0.0017576	0.0143201
<i>C17orf89</i>	-0.282145216	0.090214783	-3.12748316	0.0017631	0.0143557
<i>STT3A</i>	-0.146692264	0.046912547	-3.1269303	0.0017664	0.0143729
<i>MZT2A</i>	-0.23065852	0.073769588	-3.1267427	0.0017675	0.0143729
<i>KLHDC10</i>	0.226818044	0.072567705	3.125605862	0.0017744	0.0144101
<i>SNRNP48</i>	0.545655346	0.174583332	3.125472167	0.0017752	0.0144101
<i>NOL8</i>	0.66326863	0.21221861	3.125402765	0.0017756	0.0144101
<i>RHOT1</i>	0.403175783	0.129032798	3.124599247	0.0017805	0.0144306
<i>MDM4</i>	0.444345953	0.142208921	3.124599697	0.0017805	0.0144306
<i>OSBPL2</i>	-0.143265988	0.045860163	-3.12397464	0.0017843	0.0144518
<i>GJA1</i>	0.361413909	0.115705363	3.123570945	0.0017867	0.0144622
<i>MON2</i>	0.538755457	0.172555696	3.122211963	0.001795	0.0145183
<i>ZBTB21</i>	0.800555743	0.256420212	3.122046177	0.001796	0.0145183
<i>LPCAT2</i>	0.369396411	0.118340665	3.121466402	0.0017995	0.0145374
<i>UTP20</i>	0.754413912	0.241766247	3.120426953	0.0018059	0.0145792
<i>DGUOK</i>	-0.249746616	0.080041858	-3.12020012	0.0018073	0.0145809
<i>YBX1</i>	-0.149844773	0.048037323	-3.11934063	0.0018126	0.014614
<i>C11orf31</i>	-0.22345557	0.071693114	-3.1168345	0.001828	0.0147292
<i>CHD2</i>	0.297663354	0.09555689	3.115038108	0.0018392	0.0148095
<i>TTC21B</i>	0.74504982	0.23946542	3.111304427	0.0018626	0.0149786
<i>PCMTD1</i>	0.712406477	0.22896394	3.111435257	0.0018618	0.0149786
<i>MANEA</i>	0.871610337	0.280211625	3.110543096	0.0018674	0.0150075
<i>USP38</i>	0.501218402	0.16115011	3.110257904	0.0018692	0.0150122
<i>NAGK</i>	-0.212202577	0.068263947	-3.10856001	0.00188	0.0150356
<i>RPS11</i>	-0.185077039	0.059538541	-3.10852492	0.0018802	0.0150356
<i>DYNLT3</i>	0.408609596	0.131450922	3.10845743	0.0018807	0.0150356

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>SRGAP2C</i>	0.395942316	0.127364048	3.108744761	0.0018788	0.0150356
<i>GPC6</i>	0.509857556	0.163963704	3.109575733	0.0018736	0.0150356
<i>ARFGAP3</i>	0.360593028	0.115989103	3.108852627	0.0018782	0.0150356
<i>TRMT112P6</i>	-0.485729459	0.156249407	-3.10868033	0.0018792	0.0150356
<i>CLK1</i>	0.427182202	0.137454324	3.107812037	0.0018848	0.0150526
<i>NDC1</i>	0.476279254	0.153255795	3.107740582	0.0018852	0.0150526
<i>ZNF225</i>	0.62432181	0.200961903	3.106667486	0.0018921	0.0150976
<i>PCGF1</i>	-0.354822661	0.114220384	-3.10647408	0.0018933	0.0150978
<i>LMO7</i>	0.445719228	0.143528149	3.105448165	0.0018999	0.0151405
<i>PALB2</i>	0.727065132	0.23416425	3.104936521	0.0019032	0.0151472
<i>RP11-6NI7.4</i>	-0.581461746	0.187264374	-3.10503132	0.0019026	0.0151472
<i>HERC4</i>	0.439694536	0.141643995	3.104222911	0.0019078	0.0151692
<i>RALGAPA1</i>	1.053163296	0.339278477	3.10412645	0.0019084	0.0151692
<i>APTR</i>	-0.413842367	0.133345498	-3.10353461	0.0019122	0.0151898
<i>HNRNPCP2</i>	-0.213765891	0.068892663	-3.10288327	0.0019165	0.0152135
<i>NAP1L1</i>	0.256802803	0.082782697	3.102131399	0.0019213	0.0152424
<i>KLHL24</i>	0.560234418	0.180640341	3.101380427	0.0019262	0.0152645
<i>PRDX5</i>	-0.293143297	0.094527843	-3.10113178	0.0019278	0.0152645
<i>TTC14</i>	0.781432484	0.251982815	3.101134031	0.0019278	0.0152645
<i>LIFR</i>	0.984760793	0.317642154	3.10022074	0.0019338	0.0153017
<i>BLZF1</i>	0.716113115	0.231012854	3.099884285	0.001936	0.0153093
<i>NBR1</i>	0.242494834	0.078273086	3.09806149	0.0019479	0.015394
<i>DMXL2</i>	0.946493687	0.305545414	3.09771852	0.0019502	0.0154019
<i>ATP2C1</i>	0.338068828	0.10916964	3.096729364	0.0019567	0.0154371
<i>KLHL15</i>	0.868786	0.280555394	3.096664749	0.0019571	0.0154371
<i>TMEM245</i>	0.294008496	0.094962715	3.096041406	0.0019612	0.0154597
<i>FLYWCH2</i>	-0.237276551	0.076655397	-3.09536655	0.0019657	0.015485
<i>PPP2R3A</i>	0.932179088	0.301190271	3.094984057	0.0019682	0.0154951
<i>TGIF2</i>	-0.259890599	0.083987746	-3.09438713	0.0019722	0.0155066
<i>SGMS2</i>	0.84103627	0.271788726	3.0944487	0.0019718	0.0155066
<i>FBXO30</i>	0.589599762	0.190560777	3.094024764	0.0019746	0.0155157
<i>KPNB1</i>	0.273924121	0.08858364	3.092265367	0.0019864	0.0155952
<i>CACUL1</i>	0.279906133	0.090522107	3.092130121	0.0019873	0.0155952
<i>EHBPI</i>	0.588983957	0.190600057	3.090156251	0.0020005	0.0156893
<i>TTBK2</i>	0.450779106	0.145983622	3.087874521	0.0020159	0.015793
<i>KIAA0895</i>	0.647718133	0.209765406	3.087821508	0.0020163	0.015793
<i>RPA3</i>	-0.172829505	0.055989408	-3.08682504	0.0020231	0.015816
<i>CCDC6</i>	0.314859059	0.101990945	3.087127567	0.002021	0.015816
<i>MDN1</i>	0.479266332	0.155254057	3.086981052	0.002022	0.015816
<i>KCTD7</i>	-0.182510843	0.05913051	-3.08657652	0.0020248	0.0158192
<i>PDE6D</i>	-0.218825169	0.070901427	-3.08632956	0.0020264	0.0158224
<i>RAD51AP1</i>	0.477741188	0.154868051	3.084827267	0.0020367	0.0158925
<i>PSMB7</i>	-0.223214989	0.072458569	-3.08058787	0.0020659	0.0161103

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>TRIM38</i>	0.434802077	0.141171718	3.079951724	0.0020703	0.0161346
<i>MRPS36</i>	-0.367587221	0.119395263	-3.07874209	0.0020788	0.01619
<i>CRNL1</i>	0.497868301	0.161802797	3.077006773	0.0020909	0.0162641
<i>RPS28</i>	-0.313921383	0.10201972	-3.07706572	0.0020905	0.0162641
<i>PDGFRA</i>	0.419075258	0.136209513	3.076695958	0.0020931	0.0162708
<i>PPP3CA</i>	0.417415507	0.135745867	3.074977649	0.0021052	0.0163545
<i>ENY2</i>	-0.261832926	0.085167284	-3.07433692	0.0021097	0.0163794
<i>WDR19</i>	0.574699237	0.186977954	3.073620305	0.0021148	0.0164085
<i>SOS1</i>	0.694122603	0.225914144	3.072506175	0.0021227	0.0164595
<i>TMEM243</i>	-0.301676555	0.098251653	-3.07044763	0.0021374	0.0165405
<i>ZC3H12C</i>	0.625998598	0.203865933	3.07063858	0.002136	0.0165405
<i>SLU7</i>	0.371269311	0.120923122	3.070292134	0.0021385	0.0165405
<i>TCF4</i>	0.580357679	0.189014355	3.070442339	0.0021374	0.0165405
<i>PDAPI</i>	-0.179742651	0.058574218	-3.06863086	0.0021504	0.0166224
<i>NR2C1</i>	0.586030172	0.191046036	3.067481448	0.0021587	0.0166656
<i>MUT</i>	0.3712219	0.121014316	3.067586648	0.0021579	0.0166656
<i>RSBN1</i>	0.491195728	0.160140466	3.067280489	0.0021602	0.0166664
<i>RND3</i>	0.638709641	0.208272106	3.066707555	0.0021643	0.0166776
<i>GNA12</i>	-0.191421842	0.062418317	-3.06675752	0.0021639	0.0166776
<i>CDH10</i>	0.729753053	0.238026508	3.065847834	0.0021705	0.0166966
<i>NUDC</i>	-0.198837195	0.064854173	-3.06591214	0.0021701	0.0166966
<i>ZBTB41</i>	1.072890765	0.349953717	3.0658076	0.0021708	0.0166966
<i>TSHZ2</i>	0.509798864	0.166306251	3.065422141	0.0021736	0.0166974
<i>LMLN</i>	0.577495253	0.188383738	3.065526026	0.0021729	0.0166974
<i>HSPD1P1</i>	0.431390571	0.140842109	3.062937467	0.0021918	0.0168262
<i>TSNAX</i>	0.55819397	0.182340305	3.06127583	0.002204	0.0168988
<i>RHOJ</i>	0.20821238	0.068011737	3.061418343	0.0022029	0.0168988
<i>ZNF280C</i>	0.752545143	0.245851332	3.060976466	0.0022062	0.0169053
<i>DOLK</i>	-0.261382946	0.085410108	-3.06032802	0.0022109	0.0169105
<i>COX14</i>	-0.291784363	0.0953404	-3.06044828	0.0022101	0.0169105
<i>BRCC3</i>	0.458660359	0.149867543	3.060438234	0.0022101	0.0169105
<i>PAPD5</i>	0.56781874	0.185568275	3.059891242	0.0022142	0.0169204
<i>COX5A</i>	-0.162296582	0.053041891	-3.05978121	0.002215	0.0169204
<i>TAF1B</i>	0.435113009	0.142228461	3.059254137	0.0022189	0.0169398
<i>AARS</i>	-0.183572675	0.060059545	-3.05651124	0.0022393	0.017085
<i>KDM6A</i>	0.501325472	0.164057042	3.055799783	0.0022446	0.017115
<i>GDI2</i>	0.425125074	0.139255689	3.052838101	0.0022669	0.0172741
<i>EFTUD2</i>	-0.149797504	0.049122977	-3.04943865	0.0022927	0.0174493
<i>OXR1</i>	0.612916314	0.200985043	3.049561827	0.0022918	0.0174493
<i>LCOR</i>	0.813501905	0.266794741	3.049167695	0.0022948	0.0174543
<i>MYL6</i>	-0.228329418	0.07491365	-3.04790141	0.0023045	0.0175065
<i>ZFPL1</i>	-0.436896707	0.14334031	-3.04796822	0.0023039	0.0175065
<i>LIG4</i>	0.956858984	0.313970565	3.047607295	0.0023067	0.0175129

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>DICER1</i>	0.815956072	0.267814064	3.046725996	0.0023135	0.0175535
<i>SLC35F5</i>	0.329247126	0.108084798	3.046192747	0.0023176	0.0175631
<i>CEP97</i>	1.032005223	0.338765074	3.046374325	0.0023162	0.0175631
<i>RP11-761N21.2</i>	-0.31885347	0.104684975	-3.04583797	0.0023203	0.0175731
<i>ELK3</i>	0.25018472	0.082155383	3.045262651	0.0023248	0.0175921
<i>PRDX4</i>	-0.185859013	0.061034537	-3.04514497	0.0023257	0.0175921
<i>FAM102B</i>	0.796899385	0.261764568	3.044336327	0.0023319	0.0176286
<i>NAB1</i>	0.488946848	0.160668493	3.043203043	0.0023407	0.0176843
<i>SRSF9</i>	-0.287614837	0.094520069	-3.04289701	0.0023431	0.0176915
<i>FNBP1L</i>	0.657704316	0.216222345	3.041796235	0.0023517	0.0177249
<i>TMEM123</i>	0.428133312	0.140738105	3.042056819	0.0023497	0.0177249
<i>ZEB2</i>	0.687493417	0.226016942	3.041778241	0.0023519	0.0177249
<i>CTSZ</i>	-0.238881429	0.078567407	-3.04046471	0.0023621	0.0177916
<i>EXOC6B</i>	0.439966213	0.144751377	3.039461323	0.00237	0.0178292
<i>ACBD3</i>	0.392052025	0.128984998	3.039516456	0.0023696	0.0178292
<i>OS9</i>	-0.161393042	0.053108049	-3.03895632	0.002374	0.0178483
<i>EPHA5</i>	0.541191687	0.17812406	3.038285155	0.0023793	0.0178772
<i>KIAA0020</i>	0.521444275	0.17163559	3.038089448	0.0023808	0.0178779
<i>CLASP1</i>	0.335515972	0.110489318	3.036637191	0.0023923	0.0179508
<i>JMY</i>	0.564151217	0.185790068	3.036498255	0.0023934	0.0179508
<i>ZNF354B</i>	0.934322298	0.307824691	3.035241573	0.0024034	0.0180148
<i>EPB41L5</i>	0.61906301	0.204066605	3.033632127	0.0024163	0.0181002
<i>MRPL52</i>	-0.20276401	0.066865762	-3.03240409	0.0024261	0.018163
<i>TMUB2</i>	-0.176797208	0.058324112	-3.03128844	0.0024351	0.0182192
<i>YIPF6</i>	0.317607792	0.104790239	3.030890991	0.0024383	0.0182322
<i>PPWD1</i>	0.479602	0.158309797	3.029515607	0.0024495	0.0182933
<i>PTPRG</i>	0.374419739	0.123587396	3.029594843	0.0024488	0.0182933
<i>SNAI3-AS1</i>	-0.78396274	0.258795686	-3.02927283	0.0024514	0.0182969
<i>TYW3</i>	0.581591739	0.192015057	3.028886112	0.0024546	0.0183093
<i>CCDC82</i>	0.807708998	0.266727178	3.028221588	0.00246	0.0183385
<i>POLA1</i>	0.716048042	0.23657833	3.026684828	0.0024725	0.0184184
<i>ZBTB44</i>	0.45519805	0.150401908	3.026544391	0.0024737	0.0184184
<i>DTNA</i>	0.509681284	0.168431232	3.026049724	0.0024777	0.0184374
<i>C1orf122</i>	-0.250662536	0.082840703	-3.02583785	0.0024795	0.0184392
<i>HIPK2</i>	0.324699458	0.107345943	3.024794866	0.002488	0.0184893
<i>G3BP1</i>	0.26287445	0.086910569	3.024654584	0.0024892	0.0184893
<i>DPY19L1</i>	0.435781929	0.144107993	3.023995554	0.0024946	0.0185185
<i>DIRC2</i>	-0.225491069	0.074576256	-3.02363085	0.0024976	0.0185273
<i>ZNF559</i>	0.661999967	0.218952336	3.023488942	0.0024988	0.0185273
<i>C14orf2</i>	-0.245302862	0.081160416	-3.02244461	0.0025074	0.0185802
<i>DNAJB14</i>	0.632818221	0.209428208	3.021647502	0.002514	0.018618
<i>ZMYND11</i>	0.457447069	0.151431228	3.020823875	0.0025209	0.0186575
<i>RINT1</i>	0.500097349	0.165650306	3.018994415	0.0025362	0.0187593

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>ZNF518B</i>	0.473388717	0.156823619	3.018606004	0.0025394	0.0187722
<i>TMEM209</i>	0.430617415	0.142666594	3.0183479	0.0025416	0.0187769
<i>RP11-641D5.1</i>	-0.312908195	0.1036855	-3.01785876	0.0025457	0.018796
<i>ATP2B4</i>	0.33657083	0.111538581	3.017528363	0.0025485	0.0188053
<i>NCOA3</i>	0.458015892	0.151836606	3.016505077	0.0025571	0.0188576
<i>GSTM4</i>	-0.256857714	0.085166918	-3.01593296	0.0025619	0.018882
<i>PCBD1</i>	-0.18774725	0.062258173	-3.01562413	0.0025645	0.01889
<i>WDR44</i>	0.484473094	0.160727852	3.014244802	0.0025762	0.0189647
<i>USP12</i>	0.611990534	0.203092354	3.013360779	0.0025837	0.0190088
<i>GPCPD1</i>	0.616886832	0.204794131	3.012229052	0.0025934	0.0190684
<i>HIVEP2</i>	0.56521782	0.18766861	3.011786681	0.0025972	0.0190849
<i>DHRS7</i>	-0.253866632	0.084299005	-3.01150214	0.0025996	0.0190914
<i>IDH3B</i>	-0.218896629	0.072715397	-3.01032023	0.0026097	0.0191545
<i>ZNF714</i>	0.620586555	0.20620041	3.009628132	0.0026157	0.0191868
<i>ZNF254</i>	0.845070927	0.280815112	3.009349895	0.0026181	0.019193
<i>PAFAH1B1</i>	0.165772548	0.055090837	3.009076616	0.0026204	0.0191989
<i>DNAJC10</i>	0.539508005	0.179315656	3.008705525	0.0026236	0.0191996
<i>ZNF708</i>	0.674698817	0.224241127	3.008809431	0.0026227	0.0191996
<i>TMEM30A</i>	0.468587958	0.155773145	3.00814339	0.0026285	0.0192238
<i>FBXO28</i>	0.338862409	0.112700492	3.006751821	0.0026406	0.0193005
<i>MRPS23</i>	-0.260364591	0.086626757	-3.00559086	0.0026507	0.0193629
<i>UFM1</i>	0.435479255	0.144926952	3.004818971	0.0026574	0.0194007
<i>EFTUD1</i>	0.45056128	0.15009113	3.001918109	0.0026828	0.0195749
<i>EIF1</i>	-0.165478102	0.055155953	-3.00018569	0.0026982	0.019675
<i>SLC16A7</i>	1.442382213	0.480874071	2.99950091	0.0027042	0.0197077
<i>ITGA6</i>	0.361290122	0.120457545	2.999314995	0.0027059	0.0197081
<i>ABCA7</i>	-0.24101861	0.080380162	-2.99848377	0.0027133	0.0197503
<i>TRIM22</i>	0.87772644	0.292817093	2.9975246	0.0027218	0.0198009
<i>PSMD1</i>	0.307856822	0.102716096	2.997162422	0.0027251	0.0198128
<i>ZNF28</i>	0.8335517	0.278195699	2.996278172	0.002733	0.0198586
<i>CENPI</i>	0.535306347	0.17869022	2.995722685	0.002738	0.0198831
<i>NPEPL1</i>	-0.302643077	0.101042955	-2.99519225	0.0027427	0.0198944
<i>AC009487.6</i>	1.116528519	0.372754787	2.99534321	0.0027414	0.0198944
<i>AGTPBP1</i>	0.843759025	0.281735865	2.994858407	0.0027457	0.0199045
<i>CLSPN</i>	0.680202515	0.227199161	2.993860157	0.0027547	0.0199551
<i>ATP5A1</i>	-0.20052049	0.066980262	-2.9937251	0.0027559	0.0199551
<i>SPSB2</i>	-0.280022043	0.093542818	-2.99351728	0.0027578	0.0199571
<i>ZNF473</i>	0.444642657	0.148586679	2.99247994	0.0027672	0.0200133
<i>RBM7</i>	0.598752181	0.200107192	2.992157224	0.0027701	0.0200133
<i>DANCR</i>	-0.267625472	0.089443348	-2.99212272	0.0027704	0.0200133
<i>PTPN4</i>	0.675862534	0.226020184	2.990275127	0.0027873	0.0200761
<i>MYOF</i>	0.284183799	0.095020053	2.990777116	0.0027827	0.0200761
<i>LHFPL2</i>	0.305146445	0.102038419	2.99050543	0.0027852	0.0200761

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>NAA38</i>	-0.229836157	0.0768434	-2.99096806	0.0027809	0.0200761
<i>FPGT</i>	0.608867685	0.203614263	2.990299772	0.002787	0.0200761
<i>SESN3</i>	0.625249743	0.209217737	2.988512116	0.0028034	0.0201805
<i>RPS13P2</i>	-0.204640402	0.068488989	-2.98793142	0.0028087	0.0202071
<i>SLC26A2</i>	0.680700519	0.227914976	2.986642352	0.0028206	0.0202807
<i>BCS1L</i>	-0.278409968	0.093251948	-2.98556733	0.0028305	0.0203379
<i>DAP3</i>	-0.197681981	0.066215679	-2.98542558	0.0028318	0.0203379
<i>CTB-79E8.3</i>	-0.316466974	0.106023681	-2.98487066	0.002837	0.020363
<i>DZIP3</i>	0.799635086	0.267965058	2.984102079	0.0028441	0.0204024
<i>AMD1</i>	0.489417077	0.164029437	2.983714912	0.0028477	0.0204164
<i>CD63</i>	-0.222852181	0.074703825	-2.98314286	0.002853	0.0204427
<i>C1orf27</i>	0.671624454	0.225176106	2.982663066	0.0028575	0.0204629
<i>PPAT</i>	0.52972889	0.177622551	2.982329026	0.0028606	0.0204734
<i>ARPC2</i>	-0.17272166	0.057923693	-2.98188276	0.0028648	0.0204914
<i>BMS1</i>	0.359605608	0.120604476	2.981693711	0.0028666	0.0204922
<i>SCRN2</i>	-0.295625897	0.099192797	-2.98031618	0.0028795	0.0205727
<i>CCNT2</i>	0.641961174	0.21557752	2.977866957	0.0029026	0.0207019
<i>CCT7</i>	-0.194267522	0.065229412	-2.97821973	0.0028993	0.0207019
<i>LYSMD3</i>	0.694612961	0.233249129	2.97798737	0.0029015	0.0207019
<i>NAA50</i>	0.361003827	0.121364196	2.974549654	0.0029342	0.020915
<i>ECHS1</i>	-0.185525289	0.062422336	-2.97209785	0.0029577	0.0210667
<i>GEN1</i>	0.780068026	0.262474399	2.971977565	0.0029589	0.0210667
<i>10-Sep</i>	0.48931926	0.164661399	2.971669513	0.0029619	0.0210757
<i>NQO1</i>	-0.193986	0.065289051	-2.97118731	0.0029665	0.0210967
<i>LIN54</i>	0.504495311	0.169864777	2.969981884	0.0029782	0.0211675
<i>MRPL22</i>	-0.240465268	0.08100015	-2.9687015	0.0029906	0.0212193
<i>ALKBH8</i>	0.655222716	0.220702748	2.968801799	0.0029896	0.0212193
<i>ZNF347</i>	0.565258511	0.190384863	2.969030743	0.0029874	0.0212193
<i>DNAJB11</i>	-0.193767325	0.065284171	-2.96805981	0.0029969	0.0212321
<i>PGPEP1</i>	-0.258868641	0.087213934	-2.96820277	0.0029955	0.0212321
<i>STRBP</i>	0.56810989	0.191412532	2.967986907	0.0029976	0.0212321
<i>RCOR1</i>	0.323265629	0.108932259	2.967583999	0.0030015	0.0212478
<i>UGGT2</i>	0.584347843	0.196959134	2.96684816	0.0030087	0.0212743
<i>TDG</i>	0.49911515	0.168223674	2.9669733	0.0030075	0.0212743
<i>RPL24P8</i>	-0.267260651	0.090127687	-2.96535572	0.0030233	0.0213656
<i>FANCD2</i>	0.58310398	0.196673444	2.964833314	0.0030285	0.0213896
<i>GUF1</i>	0.423402199	0.142842803	2.964112933	0.0030356	0.0214275
<i>GLIS3</i>	0.279308207	0.094286949	2.962320977	0.0030533	0.0215249
<i>ARRB2</i>	-0.223195446	0.075343576	-2.96236863	0.0030528	0.0215249
<i>RAB13</i>	-0.240405857	0.081158112	-2.96219135	0.0030546	0.0215249
<i>ZNF449</i>	0.698729	0.235938731	2.961484942	0.0030616	0.021562
<i>PM20D2</i>	0.41613779	0.14054135	2.960963373	0.0030668	0.0215862
<i>GDAP2</i>	0.473074438	0.159785223	2.960689535	0.0030695	0.0215932

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
ZNF561	0.378020378	0.127698792	2.960250238	0.0030739	0.0216117
DPCD	-0.269534908	0.09106007	-2.95996816	0.0030767	0.0216192
SDHAF2	-0.331168474	0.111914611	-2.9591174	0.0030852	0.0216666
FTH1P8	-0.36620898	0.123779948	-2.95854851	0.0030909	0.0216943
FGGY	-0.327576674	0.110737963	-2.95812444	0.0030952	0.0217119
PGS1	-0.234031938	0.079137509	-2.9572821	0.0031036	0.0217261
PFN1	-0.211975498	0.071684812	-2.95704896	0.003106	0.0217261
DYNC1LI2	0.309993996	0.104818561	2.957434185	0.0031021	0.0217261
ZNF322	0.662640421	0.224077631	2.957191306	0.0031046	0.0217261
C5orf24	0.467694836	0.158132454	2.957614473	0.0031003	0.0217261
SAMM50	-0.186611649	0.06311808	-2.95654826	0.003111	0.0217368
GNL2	0.410117895	0.138708745	2.956683776	0.0031097	0.0217368
IMMT	0.276760343	0.093666343	2.954746982	0.0031293	0.0218518
SEC61G	-0.214467273	0.072608108	-2.95376478	0.0031392	0.021909
GBX2	-0.766367802	0.259546118	-2.95272303	0.0031498	0.0219707
RP11-543P15.1	-0.210357674	0.071253658	-2.95223683	0.0031548	0.0219929
FIGN	0.541600579	0.183530391	2.951013045	0.0031673	0.0220678
GNPTAB	0.645281473	0.218728787	2.950144241	0.0031763	0.0221175
ANKRD32	0.606274241	0.205650385	2.948082203	0.0031975	0.022253
DCXR	-0.261467232	0.088811668	-2.94406399	0.0032393	0.0225235
CARKD	-0.19155788	0.065067268	-2.94399757	0.00324	0.0225235
DTNBP1	-0.202869017	0.068914761	-2.94376725	0.0032424	0.0225276
C19orf53	-0.175037721	0.059466536	-2.94346589	0.0032456	0.0225368
MID1	0.300567379	0.102158418	2.942169486	0.0032592	0.0226187
WDR43	0.444232296	0.151011868	2.941704536	0.0032641	0.02264
DTYMK	-0.218848635	0.074416331	-2.94086839	0.0032729	0.0226884
RMDN3	-0.253360678	0.086179551	-2.93991642	0.003283	0.0227455
SGOL1	0.588486918	0.200222251	2.939168431	0.0032909	0.0227837
PFDN2	-0.294133892	0.100083819	-2.93887557	0.0032941	0.0227837
RP11-567G24.1	-0.19250872	0.065501246	-2.93900854	0.0032926	0.0227837
GLRX3	-0.2381582	0.081093614	-2.93683052	0.0033159	0.0229217
TIA1	0.440772227	0.150097715	2.936568539	0.0033187	0.0229282
HINT2	-0.208640354	0.071087739	-2.9349696	0.0033358	0.023021
ZNF513	-0.241738477	0.082363162	-2.93503153	0.0033351	0.023021
DTX3	-0.220096145	0.075001157	-2.93457001	0.0033401	0.0230378
NRIP1	1.223858036	0.417223293	2.933340626	0.0033534	0.0231163
TMTc3	0.816881462	0.27868164	2.93123531	0.0033762	0.0232476
PLA2G16	-0.212878281	0.072621596	-2.93133573	0.0033751	0.0232476
TXNRD1	0.285445526	0.097411271	2.930313129	0.0033862	0.0233037
ARSJ	0.319841344	0.109161064	2.929994759	0.0033897	0.0233146
NSFLIC	-0.195650229	0.066792628	-2.92921889	0.0033982	0.0233599
CNOT7	0.281197491	0.096033617	2.928115159	0.0034102	0.02343
P4HA1	0.410441248	0.14032368	2.924960695	0.003445	0.0236556

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>GAB1</i>	0.719387626	0.245963284	2.92477647	0.003447	0.0236565
<i>DHX40</i>	0.536414399	0.183418682	2.924535238	0.0034497	0.0236617
<i>TIMMDC1</i>	-0.214694864	0.073416446	-2.92434291	0.0034518	0.0236632
<i>RECQL</i>	0.688891253	0.23567813	2.923017313	0.0034666	0.0237379
<i>PIAS4</i>	-0.187972755	0.064304845	-2.92315073	0.0034651	0.0237379
<i>ABCC4</i>	0.486445331	0.166457317	2.922342739	0.0034741	0.0237762
<i>NABP2</i>	-0.187618818	0.064212432	-2.92184569	0.0034796	0.023801
<i>CPEB2</i>	0.82884218	0.283711217	2.921429013	0.0034843	0.0238196
<i>PHPT1</i>	-0.223759498	0.076614889	-2.92057457	0.0034939	0.0238652
<i>NAA35</i>	0.440322153	0.150770013	2.920488926	0.0034948	0.0238652
<i>MSL2</i>	0.530379613	0.18172037	2.918658006	0.0035154	0.0239926
<i>ABCE1</i>	0.551619128	0.189050314	2.917842965	0.0035246	0.0240421
<i>ETF1</i>	0.349940643	0.119957338	2.917209143	0.0035318	0.0240644
<i>MPV17L2</i>	-0.206383178	0.070745959	-2.91724334	0.0035314	0.0240644
<i>LONRF3</i>	0.750396911	0.257325119	2.916143259	0.0035439	0.0241202
<i>WDHD1</i>	0.634237791	0.217491843	2.916145192	0.0035439	0.0241202
<i>RABAC1</i>	-0.2476898	0.084964832	-2.91520379	0.0035546	0.0241398
<i>UHRF1BP1L</i>	0.744662184	0.255397139	2.915702922	0.0035489	0.0241398
<i>BCL2</i>	0.948646424	0.32539628	2.915357309	0.0035528	0.0241398
<i>WDR25</i>	-0.38539506	0.132197281	-2.91530247	0.0035534	0.0241398
<i>SEC62</i>	0.520922406	0.178737933	2.914447975	0.0035632	0.024185
<i>RBM41</i>	0.452831632	0.155438483	2.913253024	0.0035768	0.0242357
<i>COPZ1</i>	-0.142559216	0.048931765	-2.91342888	0.0035748	0.0242357
<i>DENND2C</i>	0.84138927	0.28879914	2.913406421	0.0035751	0.0242357
<i>HSPEIP2</i>	-0.356593652	0.122409955	-2.91310989	0.0035785	0.0242357
<i>HMGCS1</i>	0.49721936	0.170779442	2.911470818	0.0035973	0.0242966
<i>SATB2</i>	0.389582341	0.133784411	2.912015978	0.003591	0.0242966
<i>ERGIC3</i>	-0.180101317	0.061858636	-2.91149836	0.003597	0.0242966
<i>TOR1A</i>	-0.202390208	0.069507226	-2.9117866	0.0035937	0.0242966
<i>TRIM41</i>	-0.226204497	0.077690345	-2.91161656	0.0035956	0.0242966
<i>MAP2K7</i>	-0.195794149	0.067284991	-2.90992309	0.0036152	0.0244039
<i>TMTC1</i>	0.319319365	0.109760057	2.90924926	0.003623	0.0244299
<i>DDR2</i>	0.385830705	0.132619135	2.90931398	0.0036222	0.0244299
<i>OAZ2</i>	-0.162889894	0.055995361	-2.90898908	0.003626	0.0244369
<i>VTA1</i>	0.43183579	0.148488078	2.908218599	0.0036349	0.0244705
<i>ZNF518A</i>	1.301509504	0.447525642	2.908234483	0.0036348	0.0244705
<i>SSR4</i>	-0.212733612	0.073161625	-2.90772126	0.0036407	0.0244961
<i>STRA13</i>	-0.206991735	0.07119302	-2.90747234	0.0036436	0.0245023
<i>TMEM263</i>	0.407982728	0.140342208	2.907056493	0.0036485	0.0245215
<i>DDX5</i>	0.296904246	0.102175328	2.90583109	0.0036628	0.0245953
<i>DDB1</i>	-0.156372493	0.053814353	-2.90577671	0.0036634	0.0245953
<i>ITM2C</i>	-0.238787496	0.082208867	-2.90464404	0.0036767	0.0246594
<i>CAB39</i>	0.387834947	0.133523343	2.904622802	0.003677	0.0246594

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>DPM3</i>	-0.278814249	0.096014072	-2.90388943	0.0036856	0.0247038
<i>ERCC6L</i>	0.782462813	0.269496321	2.903426694	0.003691	0.0247269
<i>FAM199X</i>	0.354648501	0.122167291	2.902974256	0.0036964	0.0247493
<i>TXN2</i>	-0.197077972	0.067924406	-2.90143094	0.0037146	0.0248446
<i>RNF219</i>	0.781931029	0.269490733	2.901513609	0.0037136	0.0248446
<i>PTOVI-AS1</i>	-0.32654333	0.112554882	-2.90119205	0.0037175	0.0248501
<i>PMS2P1</i>	-0.313770697	0.108195498	-2.90003468	0.0037312	0.0249285
<i>CSNK1G3</i>	0.563115692	0.194244019	2.899011736	0.0037434	0.0249965
<i>NRAS</i>	0.406635599	0.140284823	2.898642847	0.0037478	0.0250124
<i>IDS</i>	0.181390862	0.062583453	2.898383749	0.0037509	0.0250196
<i>SNX10</i>	0.606003902	0.209132869	2.897698034	0.0037591	0.0250608
<i>TMEM141</i>	-0.294911674	0.101781508	-2.89749759	0.0037615	0.0250633
<i>LGR4</i>	0.460781346	0.159119348	2.895822241	0.0037817	0.0251839
<i>S100A2</i>	-0.259631258	0.089688039	-2.89482589	0.0037937	0.0252504
<i>C1GALT1</i>	0.316703414	0.109466453	2.893154988	0.0038139	0.0253715
<i>TMEM50A</i>	-0.20080152	0.06945701	-2.89101875	0.00384	0.0255308
<i>JAK1</i>	0.304454587	0.105354165	2.889820131	0.0038546	0.0256146
<i>SLC1A3</i>	0.322928485	0.111760524	2.889468246	0.0038589	0.0256157
<i>GPATCH11</i>	0.524153714	0.181398013	2.889522914	0.0038583	0.0256157
<i>PEG10</i>	0.3247838	0.112410872	2.889256125	0.0038615	0.0256193
<i>DNPH1</i>	-0.368570159	0.127589718	-2.88871365	0.0038682	0.025636
<i>LRRC27</i>	-0.36844329	0.12754128	-2.888816	0.003867	0.025636
<i>LIMS1</i>	0.321689995	0.111405511	2.887559074	0.0038824	0.0257165
<i>ZNF800</i>	0.441708244	0.152984526	2.887274005	0.003886	0.025726
<i>ABI2</i>	0.201217602	0.069700171	2.886902577	0.0038905	0.0257426
<i>HR</i>	-0.30226998	0.104736556	-2.88600268	0.0039017	0.0258025
<i>EEF1B2P6</i>	-0.476275137	0.165108993	-2.88461051	0.003919	0.025903
<i>SCML1</i>	0.709102635	0.245886573	2.883860745	0.0039283	0.0259267
<i>JOSD2</i>	-0.28235323	0.097909538	-2.8838174	0.0039289	0.0259267
<i>E2F7</i>	0.505043593	0.175129165	2.883834879	0.0039286	0.0259267
<i>C2orf68</i>	-0.201588788	0.069930379	-2.88270694	0.0039427	0.0260044
<i>CRYL1</i>	-0.372927069	0.129383308	-2.88234298	0.0039473	0.0260067
<i>COPS2</i>	0.467697097	0.162255844	2.882466887	0.0039457	0.0260067
<i>SCN8A</i>	0.870730292	0.302133905	2.881935051	0.0039524	0.0260265
<i>UPF3B</i>	0.621879775	0.215870956	2.880794096	0.0039667	0.026107
<i>EVA1C</i>	-0.446727055	0.155092792	-2.88038567	0.0039719	0.026127
<i>NDUFA9</i>	-0.341632823	0.11862629	-2.87990818	0.0039779	0.0261387
<i>RP11-298C3.2</i>	-0.248780235	0.086380235	-2.88005971	0.003976	0.0261387
<i>C10orf35</i>	-0.201575351	0.069999516	-2.87966777	0.0039809	0.0261448
<i>SUCLA2</i>	0.409695244	0.142331451	2.878458984	0.0039962	0.0262173
<i>ATL3</i>	0.273062003	0.094861921	2.8785207	0.0039955	0.0262173
<i>RNF41</i>	-0.187942816	0.065344243	-2.87619548	0.004025	0.0263921
<i>NUTF2</i>	-0.159226153	0.055373679	-2.87548446	0.0040341	0.0264095

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>GBP1</i>	0.799410323	0.278004228	2.875532968	0.0040335	0.0264095
<i>ZNF320</i>	0.478085992	0.16625009	2.87570365	0.0040313	0.0264095
<i>CSDE1</i>	0.368123493	0.128054216	2.874747145	0.0040435	0.0264573
<i>ELF1</i>	0.333126403	0.115918004	2.873810726	0.0040555	0.0265218
<i>TMEM167B</i>	0.341361566	0.118817643	2.872987198	0.0040661	0.026577
<i>CAPS</i>	-0.323814673	0.112720516	-2.8727217	0.0040695	0.0265853
<i>KATNAL1</i>	0.514696923	0.179181634	2.872487054	0.0040725	0.026591
<i>IQGAP2</i>	1.207005515	0.420350144	2.871428809	0.0040862	0.026652
<i>CKAP2L</i>	0.627598797	0.218565705	2.871442242	0.004086	0.026652
<i>GSK3B</i>	0.362968696	0.126459011	2.870247777	0.0041015	0.0267376
<i>LSM14B</i>	-0.159771844	0.055675353	-2.8697051	0.0041085	0.0267695
<i>ANK2</i>	0.497242748	0.17332065	2.868918086	0.0041188	0.026822
<i>TP53I3</i>	-0.226375962	0.078929613	-2.8680739	0.0041298	0.0268795
<i>DNTTIP2</i>	0.556216036	0.193951297	2.86781293	0.0041332	0.0268875
<i>TMEM170B</i>	0.492968696	0.171919039	2.867446788	0.004138	0.0269045
<i>EI24</i>	-0.169710736	0.05919982	-2.86674414	0.0041472	0.0269501
<i>TMBIM1</i>	-0.168185649	0.058675281	-2.86637993	0.004152	0.026967
<i>LRRC75A-AS1</i>	-0.26278975	0.091779827	-2.86326266	0.004193	0.0272194
<i>KIF4A</i>	0.370701541	0.129491201	2.862754673	0.0041998	0.0272488
<i>SDR39U1</i>	-0.387686243	0.135438507	-2.86245213	0.0042038	0.0272605
<i>CENPC</i>	0.579784052	0.202570421	2.862135791	0.004208	0.0272734
<i>UBE2L3</i>	-0.159940461	0.055891334	-2.86163254	0.0042147	0.0273025
<i>GALK1</i>	-0.248515348	0.086855004	-2.86126691	0.0042195	0.0273197
<i>ATP1B1</i>	0.229301272	0.080167309	2.860283994	0.0042326	0.0273901
<i>NFX1</i>	0.263839512	0.092250746	2.860025794	0.0042361	0.0273981
<i>NUP43</i>	0.276681475	0.096787054	2.858662001	0.0042543	0.0275018
<i>IFT74</i>	0.531978435	0.186183809	2.857275503	0.0042729	0.0276078
<i>BAG4</i>	0.374015205	0.130906963	2.85710704	0.0042752	0.027608
<i>STXBP5</i>	0.606046237	0.212155896	2.856608039	0.0042819	0.027637
<i>IVD</i>	-0.151446988	0.053037076	-2.85549277	0.004297	0.0277198
<i>XRN2</i>	0.261450096	0.091566168	2.855313279	0.0042994	0.027721
<i>DDX58</i>	1.155896194	0.405091736	2.853418349	0.0043252	0.0278723
<i>G2E3</i>	0.746609497	0.261762495	2.852240146	0.0043412	0.0279321
<i>COG3</i>	0.515022306	0.180563764	2.85230156	0.0043404	0.0279321
<i>FIBP</i>	-0.246411348	0.08638566	-2.8524566	0.0043383	0.0279321
<i>KIAA1586</i>	0.556710933	0.195199902	2.852004169	0.0043445	0.0279383
<i>ATP2B1</i>	0.692164271	0.242784617	2.850939571	0.004359	0.0280029
<i>ARPC5L</i>	-0.191281321	0.067093908	-2.85094916	0.0043589	0.0280029
<i>AGPS</i>	0.397815514	0.13959056	2.849874057	0.0043737	0.0280785
<i>HNRNPD</i>	-0.14978791	0.052561735	-2.84975199	0.0043753	0.0280785
<i>PSME3</i>	-0.135605702	0.047598384	-2.84895602	0.0043863	0.0281342
<i>KIAA0368</i>	0.378209002	0.132780544	2.848376655	0.0043943	0.0281709
<i>WASL</i>	0.376639759	0.132277335	2.847349161	0.0044085	0.0282427

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>DDA1</i>	-0.1810778	0.06359774	-2.8472364	0.0044101	0.0282427
<i>TIMM50</i>	-0.213694886	0.07507299	-2.84649492	0.0044203	0.0282939
<i>MRPL15</i>	-0.287849229	0.101151234	-2.84573128	0.004431	0.0283471
<i>HSP90B1</i>	0.426617997	0.150034166	2.843472316	0.0044625	0.0285341
<i>DHX38</i>	-0.18403338	0.064729913	-2.84309634	0.0044678	0.028553
<i>CSNK1D</i>	-0.188398804	0.066270365	-2.84288166	0.0044708	0.0285575
<i>TBCK</i>	0.599946014	0.211138474	2.841481251	0.0044904	0.0286684
<i>GFM1</i>	0.341450965	0.120200407	2.840680612	0.0045017	0.0287256
<i>RUFY2</i>	0.548739704	0.193210981	2.840106199	0.0045099	0.0287625
<i>HAGH</i>	-0.258169128	0.090914092	-2.83970417	0.0045155	0.0287839
<i>PLK4</i>	0.611866582	0.215490209	2.83941709	0.0045196	0.028795
<i>DECRI</i>	-0.247662302	0.087231463	-2.83913962	0.0045235	0.0288052
<i>TBC1D9</i>	0.341978518	0.120476727	2.838544214	0.004532	0.0288441
<i>NUCKS1</i>	0.332973692	0.117383895	2.83662159	0.0045594	0.0290035
<i>NRD1</i>	0.29399125	0.103650048	2.83638314	0.0045628	0.0290102
<i>DIP2B</i>	0.384133269	0.135439336	2.836201653	0.0045654	0.0290118
<i>AIM1</i>	0.353684033	0.124725941	2.835689438	0.0045727	0.0290434
<i>SIKE1</i>	0.296419835	0.104614852	2.833439329	0.004605	0.0292195
<i>MCM6</i>	0.287072301	0.101325287	2.833175302	0.0046088	0.0292195
<i>ARCNI</i>	0.210047184	0.074137252	2.833220531	0.0046082	0.0292195
<i>EEF1A1P6</i>	0.214688416	0.07577859	2.833101227	0.0046099	0.0292195
<i>NCAPG</i>	0.50538857	0.178450411	2.832095295	0.0046244	0.0292966
<i>C3orf58</i>	0.560060987	0.197770112	2.831878802	0.0046275	0.0293014
<i>ZW10</i>	0.398339743	0.140740957	2.830304342	0.0046504	0.0294309
<i>TRAPPC6A</i>	-0.359465537	0.127037308	-2.82960607	0.0046605	0.0294801
<i>EEF1B2P3</i>	-0.237420879	0.083957097	-2.82788338	0.0046857	0.0296241
<i>KIAA2018</i>	0.731871868	0.258925586	2.826572221	0.0047049	0.0297304
<i>TRIM45</i>	-0.186237021	0.065904753	-2.82585116	0.0047155	0.0297822
<i>CROT</i>	0.504742122	0.178634217	2.825562371	0.0047198	0.0297938
<i>ERCC6</i>	0.99888745	0.353550314	2.825304947	0.0047236	0.0298026
<i>HSPD1</i>	0.345927193	0.122473666	2.824502633	0.0047354	0.029862
<i>RPS27A</i>	-0.234734784	0.083117602	-2.82412843	0.0047409	0.0298817
<i>TAX1BP3</i>	-0.574896375	0.203603669	-2.82360518	0.0047487	0.0299153
<i>ARID4A</i>	0.887081082	0.314362269	2.821843363	0.0047748	0.0300495
<i>SFXN3</i>	-0.195031787	0.069113556	-2.82190352	0.004774	0.0300495
<i>ZNF37BP</i>	0.99603148	0.353043566	2.821270737	0.0047834	0.0300878
<i>GUSB</i>	-0.180235251	0.063926544	-2.81941177	0.0048112	0.0302473
<i>CIPC</i>	0.443719714	0.157420098	2.818697983	0.0048219	0.0302992
<i>SUSD4</i>	-0.375537109	0.133244359	-2.81840906	0.0048262	0.0303111
<i>RUFY3</i>	0.318249108	0.112930831	2.818088784	0.004831	0.0303259
<i>IWS1</i>	0.224090385	0.079541536	2.817275057	0.0048433	0.0303874
<i>DHX33</i>	0.202816508	0.072001092	2.816853213	0.0048497	0.0303985
<i>AC093323.3</i>	-0.2707324	0.096112361	-2.81683227	0.00485	0.0303985

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>DSP</i>	0.543862005	0.193103337	2.816429857	0.0048561	0.0304212
<i>GPX1</i>	-0.241523719	0.085770603	-2.81592656	0.0048637	0.0304534
<i>HNRNPUL1</i>	-0.160522087	0.057013364	-2.81551686	0.0048699	0.0304768
<i>PTP4A1</i>	0.321152163	0.114089792	2.814907075	0.0048791	0.0305038
<i>EPG5</i>	0.546075653	0.193986466	2.815019337	0.0048774	0.0305038
<i>CD151</i>	-0.220691719	0.078424082	-2.81408101	0.0048917	0.0305514
<i>SLC25A20</i>	-0.157623805	0.056010202	-2.81419814	0.0048899	0.0305514
<i>PRR7-AS1</i>	-0.976956586	0.347190158	-2.81389482	0.0048945	0.0305537
<i>LRP12</i>	0.446810657	0.158834829	2.813052141	0.0049074	0.0306184
<i>FAM35A</i>	0.492658797	0.175229324	2.811508857	0.004931	0.0307192
<i>SERGEF</i>	-0.305284656	0.108583473	-2.81152047	0.0049308	0.0307192
<i>MAGEF1</i>	-0.154172622	0.054834637	-2.81159191	0.0049297	0.0307192
<i>GMPR</i>	-0.219375069	0.078042527	-2.81096828	0.0049393	0.0307461
<i>PSMG1</i>	-0.274770025	0.097751506	-2.81090323	0.0049403	0.0307461
<i>YWHAZ</i>	0.28743293	0.102297443	2.809776283	0.0049576	0.0308384
<i>AC241585.2</i>	-0.679513182	0.241887903	-2.80920697	0.0049664	0.0308774
<i>IQCB1</i>	0.663617574	0.236279512	2.808612434	0.0049756	0.030919
<i>GGA1</i>	-0.235217562	0.083769475	-2.80791498	0.0049863	0.0309704
<i>POLR2E</i>	-0.196638978	0.070058082	-2.80679935	0.0050036	0.0310554
<i>KLF12</i>	0.657702153	0.234345625	2.806547609	0.0050076	0.0310554
<i>DYNC2H1</i>	1.02400654	0.364845918	2.806682186	0.0050055	0.0310554
<i>WBSCR22</i>	-0.192465813	0.068596529	-2.80576604	0.0050197	0.0310996
<i>RPN1</i>	-0.134753879	0.048027437	-2.80576869	0.0050197	0.0310996
<i>BECN1</i>	-0.153618898	0.054758435	-2.80539241	0.0050255	0.0311201
<i>MELK</i>	0.230214508	0.082087192	2.804511902	0.0050393	0.0311896
<i>KMT2A</i>	0.476833805	0.170038035	2.804277329	0.005043	0.0311966
<i>ARPC1B</i>	-0.170427039	0.060778283	-2.80407787	0.0050461	0.0312003
<i>ZMYM1</i>	0.641305539	0.22872507	2.803827054	0.00505	0.031209
<i>PRRC2C</i>	0.460281716	0.164175193	2.803600885	0.0050535	0.0312153
<i>AFMID</i>	-0.226285858	0.080718232	-2.80340455	0.0050566	0.0312187
<i>SEC23IP</i>	0.242608694	0.086618958	2.800872928	0.0050965	0.0314489
<i>PSMD2</i>	-0.182553809	0.065183633	-2.80060808	0.0051006	0.0314591
<i>SNAP29</i>	-0.273994047	0.097854904	-2.80000322	0.0051102	0.0314866
<i>RPS27</i>	-0.305103335	0.108960434	-2.8001296	0.0051082	0.0314866
<i>MAD2L2</i>	-0.217061934	0.077532469	-2.79962622	0.0051162	0.0314956
<i>ITGA1</i>	0.784828729	0.280337056	2.799589678	0.0051168	0.0314956
<i>CMPK1</i>	0.391521026	0.139859258	2.799392993	0.0051199	0.0314991
<i>PINK1</i>	-0.275831919	0.09857358	-2.79823375	0.0051383	0.0315967
<i>SLC10A7</i>	0.829584376	0.296531861	2.797623078	0.005148	0.0316407
<i>SENP1</i>	0.482288387	0.172402343	2.797458425	0.0051506	0.0316411
<i>RPL3P4</i>	-0.171770802	0.061424688	-2.79644567	0.0051668	0.0317247
<i>SNX21</i>	-0.225571659	0.080670411	-2.79621308	0.0051705	0.0317318
<i>RPL18AP3</i>	-0.199596514	0.071396555	-2.79560426	0.0051803	0.03176

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>NSUN5P1</i>	-0.376952612	0.134830018	-2.79576179	0.0051778	0.03176
<i>ARMT1</i>	0.446900787	0.159913842	2.794634791	0.0051958	0.0318396
<i>SPATA5</i>	0.536589982	0.192045819	2.794072718	0.0052049	0.0318792
<i>C10orf12</i>	0.707557797	0.253261355	2.79378509	0.0052095	0.0318918
<i>WDR3</i>	0.40704532	0.145709465	2.793540693	0.0052134	0.0319001
<i>BRAF</i>	0.374007052	0.133893712	2.793313035	0.0052171	0.0319068
<i>MRPL12</i>	-0.336785668	0.120579793	-2.79305231	0.0052213	0.0319167
<i>LEMD3</i>	0.360160943	0.128973942	2.792509392	0.0052301	0.0319545
<i>GMFB</i>	0.534352024	0.191373514	2.792194234	0.0052352	0.0319698
<i>HMCES</i>	-0.153255738	0.054904568	-2.79131125	0.0052495	0.0320414
<i>PEPD</i>	-0.181729344	0.065110919	-2.79107324	0.0052534	0.0320491
<i>SEC61A1</i>	-0.160242694	0.057429858	-2.79023317	0.005267	0.0321165
<i>DHX36</i>	0.536902173	0.192467516	2.78957293	0.0052778	0.0321662
<i>RP11-182L21.6</i>	-0.41889544	0.150218418	-2.78857576	0.005294	0.0322495
<i>GAPVD1</i>	0.35733672	0.128154859	2.788319708	0.0052982	0.0322591
<i>ZNF92</i>	0.839139896	0.300993906	2.787896626	0.0053051	0.0322854
<i>MTX2</i>	-0.209700559	0.075245545	-2.78688339	0.0053218	0.0323706
<i>RHOT2</i>	-0.248249392	0.089093984	-2.78637661	0.0053301	0.0323946
<i>COMMD6</i>	-0.241191479	0.08656261	-2.78632402	0.005331	0.0323946
<i>HSDL1</i>	0.45550607	0.163506735	2.785855094	0.0053387	0.0324178
<i>HN1</i>	-0.195801106	0.070286084	-2.78577344	0.00534	0.0324178
<i>MAPK1</i>	0.241785846	0.086807991	2.785294788	0.0053479	0.0324259
<i>BSDC1</i>	-0.160387451	0.057585662	-2.78519767	0.0053495	0.0324259
<i>PRRC1</i>	0.295082138	0.105946796	2.785191702	0.0053496	0.0324259
<i>NDUFB8</i>	-0.348129794	0.12499922	-2.78505573	0.0053519	0.0324259
<i>PLS3</i>	0.377712536	0.135667665	2.784101396	0.0053676	0.0325056
<i>CNDP2</i>	-0.212688224	0.07639944	-2.78389769	0.005371	0.0325101
<i>C2CD5</i>	0.689739143	0.24778667	2.783600681	0.0053759	0.0325239
<i>UGCG</i>	0.40319573	0.144858026	2.783385506	0.0053795	0.032526
<i>COA3</i>	-0.187219333	0.067266138	-2.78326269	0.0053815	0.032526
<i>SDHB</i>	-0.181876769	0.065361541	-2.78262669	0.0053921	0.0325687
<i>TMEM203</i>	-0.179742024	0.064596851	-2.7825199	0.0053939	0.0325687
<i>TCEA1</i>	0.443426371	0.159370859	2.782355403	0.0053966	0.0325693
<i>BOD1L1</i>	0.761655277	0.273832403	2.781465122	0.0054114	0.0326428
<i>ZNF667</i>	0.596771219	0.214691939	2.779662904	0.0054415	0.0328085
<i>MSH2</i>	0.472443098	0.169980632	2.7793937	0.005446	0.0328151
<i>ZFP30</i>	0.686149118	0.246880138	2.779280361	0.0054479	0.0328151
<i>ZNF17</i>	0.853436875	0.307119481	2.778843178	0.0054553	0.0328433
<i>KDM5B</i>	0.286629755	0.103163541	2.778401663	0.0054627	0.0328507
<i>DIAPH2</i>	0.729850175	0.262685362	2.778419661	0.0054624	0.0328507
<i>ITGB1P1</i>	0.603203842	0.217112914	2.778295539	0.0054645	0.0328507
<i>CMTM6</i>	0.37518741	0.135074711	2.777628826	0.0054757	0.0328862
<i>BLM</i>	0.87373718	0.314547129	2.777762371	0.0054735	0.0328862

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>GMPS</i>	0.304503498	0.109661862	2.776749289	0.0054906	0.0329378
<i>CAMLG</i>	-0.260618466	0.093855303	-2.7768113	0.0054895	0.0329378
<i>ZBED6</i>	1.032828085	0.371969708	2.776645686	0.0054923	0.0329378
<i>WDR45B</i>	-0.145698856	0.052484972	-2.77601094	0.005503	0.0329862
<i>RPL13AP5</i>	-0.187883738	0.067701595	-2.77517445	0.0055172	0.0330551
<i>CDK19</i>	0.529040991	0.190649583	2.77493914	0.0055212	0.033063
<i>TMEM47</i>	0.575492565	0.207426742	2.774437666	0.0055297	0.033098
<i>ZNF134</i>	0.344586525	0.12425202	2.773287096	0.0055493	0.0331992
<i>MPV17</i>	-0.179273248	0.064680476	-2.77167483	0.0055769	0.0333389
<i>GPX8</i>	0.431161107	0.155563671	2.771605381	0.0055781	0.0333389
<i>GNL3</i>	0.30128535	0.108744674	2.770575693	0.0055957	0.0334122
<i>GRIK2</i>	0.624639754	0.225447031	2.770671899	0.0055941	0.0334122
<i>POLQ</i>	0.823436422	0.297244781	2.770230043	0.0056017	0.0334315
<i>ARHGEF6</i>	0.498298583	0.179924271	2.769490634	0.0056144	0.0334619
<i>COPB2</i>	0.369478852	0.133398033	2.769747382	0.00561	0.0334619
<i>SPRN</i>	-0.618220314	0.22322757	-2.76946218	0.0056149	0.0334619
<i>ALG6</i>	0.670185389	0.242012287	2.769220514	0.0056191	0.0334706
<i>CCDC115</i>	-0.197236785	0.071232846	-2.7689022	0.0056246	0.033477
<i>CKS1B</i>	-0.182162403	0.065790051	-2.76884424	0.0056256	0.033477
<i>TMX3</i>	0.507468018	0.183347533	2.767793003	0.0056437	0.0335529
<i>EIF5AL1</i>	-0.194041417	0.070103484	-2.76792829	0.0056414	0.0335529
<i>EPC2</i>	0.630045138	0.227851016	2.765162738	0.0056894	0.0338084
<i>ZNF594</i>	0.927159862	0.335449523	2.763932573	0.0057109	0.0339198
<i>ZEB1</i>	0.853982717	0.309160291	2.762265218	0.0057402	0.0340772
<i>ZNF358</i>	-0.239956052	0.08690897	-2.76100445	0.0057624	0.0341926
<i>ATG101</i>	-0.290107926	0.105095236	-2.76042889	0.0057726	0.0342364
<i>SNHG19</i>	-0.543246491	0.196876292	-2.75932915	0.005792	0.0343354
<i>PPAPDC1A</i>	-0.244950229	0.088804315	-2.75831451	0.00581	0.0344257
<i>EXTL2</i>	0.496708428	0.180112967	2.757760505	0.0058199	0.0344577
<i>PHB</i>	-0.170335422	0.061767258	-2.75769763	0.005821	0.0344577
<i>TMEM106B</i>	0.460682585	0.167090666	2.757081499	0.005832	0.0345026
<i>ZNF394</i>	-0.2657947	0.096408674	-2.75695836	0.0058342	0.0345026
<i>IFIH1</i>	0.860398974	0.312158583	2.756288055	0.0058461	0.0345569
<i>ANKMY1</i>	-0.310433118	0.112637087	-2.7560471	0.0058505	0.0345658
<i>SPCS3</i>	0.459995569	0.16694417	2.755385643	0.0058623	0.0346027
<i>DNAJB2</i>	-0.233393182	0.084702332	-2.75545168	0.0058611	0.0346027
<i>RNF5P1</i>	-0.28683749	0.104134555	-2.75448903	0.0058784	0.0346811
<i>DCTN4</i>	0.335931137	0.122054703	2.752299814	0.0059178	0.0348971
<i>SRGAP1</i>	0.533038019	0.193753045	2.751120726	0.0059392	0.0350063
<i>DHPS</i>	-0.192616419	0.070023797	-2.75072802	0.0059463	0.0350149
<i>SC5D</i>	0.386697931	0.140574045	2.75084871	0.0059441	0.0350149
<i>KLHDC4</i>	-0.239824067	0.087191558	-2.75054228	0.0059497	0.0350181
<i>PSMB2</i>	-0.109125292	0.039685349	-2.74976266	0.0059638	0.0350681

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>LINC00461</i>	0.469843471	0.1708602	2.749870772	0.0059619	0.0350681
<i>PLD1</i>	0.632148801	0.229967354	2.748863223	0.0059802	0.0351477
<i>RGS17</i>	0.844647912	0.307340667	2.748246503	0.0059915	0.0351711
<i>USP53</i>	0.764453725	0.278181343	2.748040957	0.0059953	0.0351711
<i>POLR2H</i>	-0.272850939	0.099289942	-2.74802195	0.0059956	0.0351711
<i>ZNF529</i>	0.579683551	0.210913598	2.748440866	0.0059879	0.0351711
<i>PIGK</i>	0.404802977	0.147328345	2.747624543	0.0060029	0.0351971
<i>TULP4</i>	0.321135801	0.116917965	2.746676288	0.0060203	0.0352823
<i>PPFIA1</i>	0.242399545	0.088260827	2.746400109	0.0060253	0.0352953
<i>PIN4</i>	-0.219660342	0.080040722	-2.74435734	0.006063	0.0354988
<i>KCTD3</i>	0.356315665	0.129906402	2.742864556	0.0060906	0.0356437
<i>NPC2</i>	-0.170577499	0.062225378	-2.74128507	0.0061199	0.035766
<i>ASPHD2</i>	-0.77210711	0.281660008	-2.74127348	0.0061202	0.035766
<i>NEDD1</i>	0.555018825	0.202453622	2.741461567	0.0061167	0.035766
<i>B3GNT5</i>	0.478269496	0.174484462	2.741043472	0.0061244	0.0357741
<i>USP14</i>	0.258864329	0.094448573	2.740796625	0.006129	0.0357841
<i>GABARAPL1</i>	-0.251392272	0.091732957	-2.74047933	0.006135	0.0358018
<i>WNK1</i>	0.357850363	0.130620443	2.739619881	0.006151	0.0358684
<i>FIG4</i>	0.390143728	0.142425715	2.73927871	0.0061574	0.0358684
<i>GUK1</i>	-0.233219855	0.085133529	-2.7394595	0.006154	0.0358684
<i>RAB6A</i>	0.225956323	0.082488449	2.739248039	0.006158	0.0358684
<i>NCOA4</i>	0.331074695	0.120946719	2.737359878	0.0061934	0.036058
<i>ISCA2</i>	-0.219948415	0.080372599	-2.73660945	0.0062076	0.0361233
<i>WBP1</i>	-0.401489678	0.146724864	-2.73634384	0.0062126	0.0361354
<i>EXO1</i>	0.455856291	0.166661264	2.735226406	0.0062337	0.0362413
<i>PGM3</i>	0.465271387	0.170164024	2.734252377	0.0062522	0.0363316
<i>MFSD11</i>	-0.234909334	0.085930038	-2.7337278	0.0062622	0.0363553
<i>PQBP1</i>	-0.273568937	0.100071422	-2.73373689	0.006262	0.0363553
<i>ATP5L</i>	-0.183262816	0.067052945	-2.73310616	0.006274	0.0364069
<i>MRPL18</i>	-0.203376915	0.074437856	-2.73217049	0.0062919	0.0364934
<i>COMMD7</i>	-0.145673128	0.053324958	-2.73180015	0.0062989	0.0365173
<i>RP11-603J24.7</i>	-0.247285488	0.090533318	-2.73143074	0.006306	0.0365411
<i>RBM27</i>	0.645009422	0.236227101	2.730463268	0.0063245	0.0366313
<i>MFAP1</i>	0.379556078	0.139026352	2.730101676	0.0063315	0.0366544
<i>DNAJB6</i>	-0.169011091	0.061949417	-2.72821118	0.0063679	0.0368134
<i>STAM2</i>	0.468203054	0.171599467	2.728464494	0.006363	0.0368134
<i>KLHL11</i>	0.709986525	0.260231543	2.728287724	0.0063664	0.0368134
<i>SFT2D1</i>	-0.214895942	0.078782036	-2.72772771	0.0063772	0.0368501
<i>GHITM</i>	-0.16882807	0.061910628	-2.72696425	0.006392	0.0369183
<i>PSIP1</i>	0.369002015	0.135354672	2.726186021	0.0064071	0.0369536
<i>SLC25A30</i>	0.458579704	0.168210089	2.726231854	0.0064062	0.0369536
<i>SNRPE</i>	-0.355357033	0.130342283	-2.72633734	0.0064042	0.0369536
<i>ATG12</i>	0.303438582	0.111328867	2.725605597	0.0064184	0.0370014

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>SPRYD4</i>	-0.361409835	0.132631106	-2.72492513	0.0064316	0.0370604
<i>COIL</i>	0.394955196	0.14502186	2.72341836	0.006461	0.0372126
<i>RPS6KC1</i>	0.394951688	0.145051508	2.722837513	0.0064724	0.0372607
<i>RPL28</i>	-0.174324923	0.064076753	-2.72056426	0.0065171	0.0375004
<i>FBXL4</i>	0.486661123	0.178965223	2.719305545	0.0065419	0.0376177
<i>ELP5</i>	-0.195104872	0.0717502	-2.71922407	0.0065435	0.0376177
<i>MZT2B</i>	-0.208256569	0.0766085	-2.71845251	0.0065588	0.037688
<i>SH3D19</i>	0.363761704	0.133831431	2.718058844	0.0065666	0.0377021
<i>GBE1</i>	0.325057165	0.119593323	2.718021004	0.0065674	0.0377021
<i>DNAJC11</i>	-0.181466195	0.066774042	-2.71761585	0.0065754	0.0377133
<i>ZNF608</i>	0.366729674	0.134942989	2.717663774	0.0065745	0.0377133
<i>TTC3P1</i>	0.778130092	0.286383309	2.717093027	0.0065858	0.0377554
<i>UBE2W</i>	0.506787003	0.186539573	2.716780123	0.006592	0.0377736
<i>SLC35A3</i>	0.483988582	0.178176452	2.71634425	0.0066007	0.0377883
<i>UBL7-AS1</i>	-0.588781286	0.216752486	-2.71637616	0.0066001	0.0377883
<i>MORC3</i>	0.694488178	0.255775169	2.715229087	0.006623	0.0378982
<i>RBM43</i>	0.426490338	0.157163287	2.713676624	0.0066541	0.0380411
<i>RP11-312J18.5</i>	-0.238687468	0.087957011	-2.71368325	0.006654	0.0380411
<i>MFAP3</i>	0.507702678	0.187187211	2.712272248	0.0066824	0.0381673
<i>TMEM181</i>	0.336474952	0.124051791	2.7123748	0.0066803	0.0381673
<i>GSS</i>	-0.178356541	0.065765506	-2.71200744	0.0066877	0.0381702
<i>PCLO</i>	0.438021166	0.161515744	2.711940982	0.0066891	0.0381702
<i>UQCRB</i>	-0.253735242	0.093573962	-2.71160092	0.0066959	0.0381917
<i>ACTR2</i>	0.382032648	0.140983867	2.709761443	0.0067332	0.0383865
<i>NMU</i>	-0.118524984	0.043757637	-2.70866967	0.0067554	0.0384806
<i>PDGFD</i>	0.508421397	0.18770337	2.708642878	0.0067559	0.0384806
<i>PAPD4</i>	0.439404238	0.16225238	2.708152811	0.0067659	0.038505
<i>SLC38A9</i>	0.420303863	0.155200966	2.708126584	0.0067664	0.038505
<i>USP49</i>	0.444675524	0.16421367	2.707908091	0.0067709	0.0385127
<i>SERF2</i>	-0.195896226	0.072346756	-2.7077403	0.0067743	0.0385144
<i>GBAP1</i>	-0.748258022	0.276443115	-2.70673416	0.0067949	0.0385958
<i>FAM45B</i>	0.537160204	0.198443278	2.706870237	0.0067921	0.0385958
<i>UBA2</i>	0.317301049	0.117319949	2.704578809	0.0068391	0.0388293
<i>CCDC85B</i>	-0.232698813	0.086045231	-2.70437781	0.0068432	0.0388349
<i>MAFK</i>	-0.215275524	0.079626521	-2.70356561	0.00686	0.0389121
<i>TIMM13</i>	-0.24177928	0.089449973	-2.70295531	0.0068726	0.0389657
<i>ALG10B</i>	0.6560474	0.242735317	2.702727432	0.0068773	0.0389746
<i>RP11-778D9.4</i>	-0.486411878	0.180006741	-2.70218701	0.0068885	0.0390201
<i>LEPROT</i>	0.308076031	0.114056252	2.701088515	0.0069113	0.0391313
<i>CNOT2</i>	0.31336643	0.116049712	2.700277536	0.0069282	0.0392088
<i>CDCA2</i>	0.354442915	0.13136107	2.698234071	0.0069708	0.0394323
<i>NET1</i>	0.230925836	0.08559449	2.697905395	0.0069777	0.0394532
<i>PAPOLG</i>	0.545727902	0.202349941	2.696951125	0.0069978	0.0395483

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>CASP9</i>	-0.188338654	0.069839026	-2.69675373	0.0070019	0.0395537
<i>OSBPL11</i>	0.482732799	0.179023801	2.696472738	0.0070078	0.039569
<i>FABP7</i>	-0.220010917	0.08162907	-2.69525204	0.0070335	0.0396961
<i>GTPBP10</i>	0.491853734	0.18250023	2.695085555	0.0070371	0.0396979
<i>OSBPL9</i>	0.384798387	0.142807063	2.694533296	0.0070487	0.0397361
<i>SAP18</i>	-0.213094717	0.079086233	-2.69446033	0.0070503	0.0397361
<i>GSTCD</i>	0.51813397	0.192340003	2.693844041	0.0070633	0.0397734
<i>MORN2</i>	-0.250287798	0.092908265	-2.69392391	0.0070616	0.0397734
<i>C2orf42</i>	0.345285008	0.128191808	2.6935029	0.0070706	0.039796
<i>PRR34-AS1</i>	-0.378524697	0.140571159	-2.69276215	0.0070863	0.0398664
<i>BAX</i>	-0.24665221	0.091638078	-2.69159082	0.0071112	0.0399884
<i>GDI1</i>	-0.146707589	0.054518298	-2.69097888	0.0071243	0.0400436
<i>ZNF654</i>	0.836911448	0.311061662	2.690500151	0.0071345	0.0400829
<i>WIBG</i>	-0.229088159	0.085151857	-2.69034835	0.0071377	0.0400829
<i>GLTSCR2</i>	-0.199845428	0.0742888	-2.69011518	0.0071427	0.0400927
<i>ZNF234</i>	0.392284067	0.14593135	2.688141154	0.0071851	0.0403122
<i>MOB2</i>	-0.314836447	0.117132757	-2.68785995	0.0071912	0.0403279
<i>CYTH2</i>	-0.177919137	0.06621679	-2.68691877	0.0072114	0.0404234
<i>C12orf4</i>	0.575519001	0.214227904	2.686480104	0.0072209	0.0404441
<i>ZNF804A</i>	0.829430182	0.30874642	2.686444698	0.0072217	0.0404441
<i>AEBP2</i>	0.397948249	0.148186325	2.685458654	0.007243	0.0405452
<i>MYEF2</i>	0.318314698	0.118714896	2.681337465	0.0073329	0.0410109
<i>UBE2Q1</i>	-0.174686063	0.065146092	-2.68145116	0.0073304	0.0410109
<i>TNRC6B</i>	0.247837002	0.092450211	2.68076189	0.0073455	0.0410406
<i>RRAGC</i>	0.334822426	0.124896063	2.680808497	0.0073445	0.0410406
<i>C6orf120</i>	0.281600717	0.105049771	2.68064094	0.0073481	0.0410406
<i>DNAL4</i>	-0.20442102	0.076270416	-2.68021378	0.0073575	0.0410745
<i>KIAA1524</i>	0.633850963	0.236532564	2.67976194	0.0073675	0.0411114
<i>SFXN4</i>	-0.292314015	0.109093906	-2.67947152	0.0073738	0.0411285
<i>DNAJB1</i>	-0.150077074	0.05602516	-2.67874424	0.0073899	0.0411851
<i>ZNF280D</i>	0.39765737	0.148451107	2.67870936	0.0073907	0.0411851
<i>UFSP2</i>	0.391337154	0.146138182	2.677856997	0.0074095	0.0412714
<i>DLD</i>	0.365267141	0.136423723	2.677445931	0.0074186	0.0413035
<i>GULP1</i>	0.481120749	0.17974174	2.676733564	0.0074344	0.0413727
<i>FAM114A2</i>	0.39705873	0.148360421	2.676311686	0.0074437	0.0414062
<i>NICN1</i>	-0.275553132	0.102981586	-2.67575149	0.0074562	0.0414568
<i>NMD3</i>	0.482205841	0.180247253	2.675246551	0.0074674	0.0415007
<i>TAP1</i>	0.343839113	0.128536215	2.675036867	0.0074721	0.041508
<i>IFRD1</i>	0.269135372	0.100623714	2.674671422	0.0074803	0.0415346
<i>GAS2L3</i>	0.533452859	0.199459328	2.674494422	0.0074842	0.0415378
<i>MOSPD2</i>	0.678437227	0.253744751	2.673699551	0.007502	0.0416131
<i>RPL8</i>	-0.214117313	0.080086317	-2.67358172	0.0075046	0.0416131
<i>PGGT1B</i>	0.408389816	0.152758417	2.673435762	0.0075079	0.0416131

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>COX7B</i>	-0.219240103	0.08201278	-2.67324316	0.0075122	0.0416183
<i>TOPORS</i>	0.438306834	0.16402101	2.672260297	0.0075342	0.0417217
<i>IVNS1ABP</i>	0.318929853	0.119372992	2.67170862	0.0075466	0.041753
<i>ANKRD13C</i>	0.347838112	0.130188823	2.671797036	0.0075446	0.041753
<i>S100A6</i>	-0.203810643	0.076319389	-2.67049627	0.0075739	0.0418853
<i>PURA</i>	0.31755345	0.118974194	2.66909519	0.0076056	0.0420416
<i>MRPL34</i>	-0.219387209	0.082208934	-2.6686541	0.0076156	0.0420781
<i>TMEM135</i>	0.464665107	0.174179528	2.667736628	0.0076364	0.0421636
<i>MRPL14</i>	-0.236566951	0.088679188	-2.66767159	0.0076379	0.0421636
<i>KCTD2</i>	-0.193330602	0.072482559	-2.66727066	0.007647	0.0421951
<i>RNMT</i>	0.503428235	0.188755236	2.667095469	0.007651	0.0421983
<i>MIS18BP1</i>	0.940155934	0.352589998	2.666428256	0.0076662	0.0422444
<i>ITGA2</i>	0.511349863	0.1917631	2.66657069	0.0076629	0.0422444
<i>BEX1</i>	-0.407693598	0.15292455	-2.66597874	0.0076765	0.0422807
<i>TMEM56</i>	0.503863609	0.189007491	2.665839353	0.0076796	0.0422807
<i>FAM96A</i>	-0.161042887	0.0604166	-2.66554038	0.0076865	0.0422807
<i>UBE2MP1</i>	-0.24394279	0.091513795	-2.66563953	0.0076842	0.0422807
<i>MTM1</i>	0.536360846	0.201244614	2.665218386	0.0076938	0.0422836
<i>NOC3L</i>	0.548100369	0.20564806	2.665234809	0.0076935	0.0422836
<i>NAMPTP1</i>	0.434701075	0.163111132	2.665060745	0.0076974	0.0422846
<i>LEPR</i>	0.650377561	0.244070419	2.664712769	0.0077054	0.0423096
<i>RRAGA</i>	-0.164890217	0.061885528	-2.66443903	0.0077117	0.0423252
<i>SP1</i>	0.259293432	0.097331291	2.664029506	0.0077211	0.042358
<i>NQO2</i>	-0.268638213	0.10086441	-2.66335978	0.0077365	0.0424236
<i>KRR1</i>	0.492095149	0.18479706	2.662894911	0.0077472	0.0424445
<i>ZDHHC4</i>	-0.151573575	0.056919099	-2.66296511	0.0077455	0.0424445
<i>UHRF1BP1</i>	0.259129205	0.09733114	2.66234636	0.0077598	0.042495
<i>LSM1</i>	-0.272270676	0.102279365	-2.66202938	0.0077671	0.0424973
<i>TMEM259</i>	-0.225736138	0.084797712	-2.66205458	0.0077665	0.0424973
<i>TRAFD1</i>	-0.215563627	0.080999666	-2.66129031	0.0077842	0.0425598
<i>ABR</i>	-0.260079354	0.097728734	-2.66123733	0.0077854	0.0425598
<i>REEP3</i>	0.279147322	0.104933857	2.660221684	0.0078089	0.0426694
<i>PCDH17</i>	0.310109861	0.116611292	2.659346764	0.0078292	0.0427615
<i>SNRK</i>	0.545666342	0.205202637	2.659158525	0.0078336	0.0427665
<i>BANF1P3</i>	-0.340528996	0.128115089	-2.65799289	0.0078608	0.0428958
<i>SUMO2</i>	-0.171932339	0.064742097	-2.65564985	0.0079156	0.0431759
<i>CAMK4</i>	0.414858212	0.156307056	2.654123381	0.0079515	0.0433525
<i>DNM1L</i>	0.452858253	0.170651122	2.653708024	0.0079613	0.0433868
<i>C9orf114</i>	-0.237743009	0.08963513	-2.65234188	0.0079936	0.0435436
<i>NAMPT</i>	0.409113414	0.154271277	2.651909177	0.0080038	0.0435802
<i>MRE11A</i>	0.58907893	0.222213842	2.650955154	0.0080264	0.0436706
<i>RAB18</i>	0.352577357	0.133002274	2.650912241	0.0080275	0.0436706
<i>CSPP1</i>	0.755487563	0.285083803	2.650054314	0.0080479	0.0437239

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>TMEM147</i>	-0.165693534	0.062522322	-2.65015004	0.0080456	0.0437239
<i>ARHGAP32</i>	0.42764363	0.161371056	2.650064015	0.0080477	0.0437239
<i>RPLP0</i>	-0.187270122	0.070686094	-2.64932054	0.0080654	0.0437997
<i>ING5</i>	-0.221300373	0.083536102	-2.64915847	0.0080692	0.0438015
<i>CLP1</i>	-0.285286745	0.107723544	-2.64832304	0.0080892	0.0438906
<i>CDIPT</i>	-0.181767644	0.068647282	-2.6478491	0.0081006	0.0439329
<i>FAM32A</i>	-0.175035534	0.066151477	-2.64598073	0.0081454	0.0441375
<i>PAAF1</i>	-0.232360606	0.087811709	-2.64612327	0.008142	0.0441375
<i>TOR1AIP1</i>	0.37285063	0.141022829	2.643902643	0.0081956	0.04439
<i>ZNF367</i>	0.539267473	0.204014717	2.643277315	0.0082108	0.0444526
<i>CAPZB</i>	-0.155062509	0.058692175	-2.64196222	0.0082427	0.044567
<i>FGFR1</i>	-0.176080546	0.066646515	-2.64200681	0.0082416	0.044567
<i>MTA1</i>	-0.218222505	0.082596238	-2.64203927	0.0082409	0.044567
<i>ZNF426</i>	0.409496955	0.155027211	2.641452118	0.0082551	0.0446146
<i>TMEM144</i>	0.700762358	0.265324384	2.641153246	0.0082624	0.0446345
<i>RP11-69L16.5</i>	-0.531024254	0.201176017	-2.6396002	0.0083004	0.0448199
<i>RCOR2</i>	-0.617256614	0.233862945	-2.63939469	0.0083054	0.0448275
<i>ZNF551</i>	0.466665066	0.17684726	2.638802912	0.0083199	0.0448862
<i>SLC2A13</i>	0.948571922	0.359517604	2.638457514	0.0083284	0.0449053
<i>FAM161A</i>	0.778529642	0.295080585	2.638362813	0.0083307	0.0449053
<i>RP11-425L10.1</i>	-0.195645256	0.074190326	-2.63707233	0.0083625	0.0450569
<i>TFPI</i>	0.412793935	0.156655563	2.635041658	0.0084127	0.0453076
<i>DOCK5</i>	0.303616984	0.115247055	2.634488003	0.0084264	0.0453618
<i>TECR</i>	-0.234383923	0.088988106	-2.63387922	0.0084416	0.0454001
<i>MTF2</i>	0.481074583	0.182657866	2.633746869	0.0084448	0.0454001
<i>EDIL3</i>	0.428774986	0.162800778	2.633740406	0.008445	0.0454001
<i>VPS16</i>	-0.199623156	0.075798298	-2.63361001	0.0084482	0.0454001
<i>MAPK1IP1L</i>	0.194832142	0.074036633	2.631564062	0.0084993	0.0456347
<i>CIB1</i>	-0.200412783	0.076156328	-2.63159726	0.0084985	0.0456347
<i>NDUFA11</i>	-0.281952653	0.107206547	-2.62999473	0.0085386	0.0458081
<i>CSRP2</i>	-0.29989395	0.114033538	-2.62987499	0.0085416	0.0458081
<i>MAP3K5</i>	0.430672633	0.16376428	2.629832548	0.0085427	0.0458081
<i>MFI2-AS1</i>	-0.606957095	0.230895656	-2.62870729	0.008571	0.04594
<i>RPL22</i>	-0.181086947	0.068904401	-2.62808969	0.0085866	0.0460036
<i>ZFP3</i>	0.542131897	0.206468917	2.625731293	0.0086463	0.0463034
<i>OSBPL3</i>	0.205902056	0.078423877	2.625502112	0.0086521	0.0463145
<i>TRAM1</i>	0.435397984	0.165852998	2.625204189	0.0086597	0.0463236
<i>KIAA0586</i>	0.575299283	0.219149874	2.625140839	0.0086613	0.0463236
<i>SOX5</i>	0.674420839	0.257092881	2.623257546	0.0087093	0.0465603
<i>DNA2</i>	0.519933639	0.198223383	2.622968241	0.0087167	0.0465629
<i>SMYD2</i>	-0.196660015	0.074976833	-2.62294376	0.0087174	0.0465629
<i>CCT8</i>	0.333586817	0.12721712	2.622184955	0.0087368	0.0466466
<i>SHPRH</i>	0.747847293	0.285252499	2.621702858	0.0087492	0.0466924

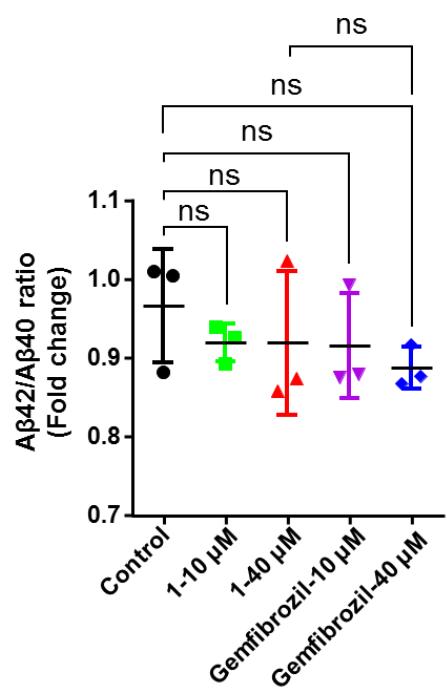
<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>H3F3B</i>	-0.171028203	0.065269433	-2.62034149	0.0087842	0.046859
<i>TMED4</i>	-0.150299803	0.05738241	-2.61926611	0.0088119	0.0469868
<i>SAP30BP</i>	-0.19073966	0.072835976	-2.61875614	0.0088251	0.0470368
<i>FBXO5</i>	0.435412959	0.166341407	2.617586126	0.0088554	0.047178
<i>IL17RD</i>	0.380676757	0.145642699	2.613771652	0.0089549	0.0476874
<i>AC007969.5</i>	-0.246687705	0.094421017	-2.61263556	0.0089847	0.0478256
<i>PRDX6</i>	-0.142161137	0.054420291	-2.61228184	0.008994	0.0478372
<i>EMC7</i>	-0.230011633	0.088050882	-2.61225813	0.0089946	0.0478372
<i>ZNF417</i>	0.57169514	0.218863635	2.612106571	0.0089986	0.0478378
<i>RPL35P1</i>	-0.452933041	0.173442461	-2.61143112	0.0090164	0.0479118
<i>PABPC1L</i>	-0.315340932	0.120761452	-2.61127144	0.0090206	0.0479136
<i>USF2</i>	-0.193732325	0.074208982	-2.61063176	0.0090375	0.0479585
<i>SMNDC1</i>	0.283706594	0.108678603	2.61051012	0.0090407	0.0479585
<i>CHD6</i>	0.376112094	0.144062664	2.610753432	0.0090343	0.0479585
<i>UBASH3B</i>	0.373971744	0.143282696	2.610027265	0.0090535	0.0480057
<i>VPS4A</i>	-0.161582707	0.061915392	-2.60973404	0.0090613	0.0480253
<i>ZNF525</i>	0.902475872	0.34582998	2.609594089	0.009065	0.0480253
<i>ARMC8</i>	0.378987396	0.145300795	2.60829541	0.0090994	0.048146
<i>KBTBD6</i>	0.428942909	0.164445031	2.608427298	0.0090959	0.048146
<i>OXLD1</i>	-0.229627643	0.088031669	-2.60846632	0.0090949	0.048146
<i>EXOC6</i>	0.556741358	0.213490816	2.607800042	0.0091126	0.0481951
<i>CCDC25</i>	0.259275956	0.09946176	2.606790339	0.0091395	0.0482944
<i>INTS8</i>	0.35352942	0.135629124	2.606589278	0.0091449	0.0482944
<i>LRTOMT</i>	-0.366746724	0.140695236	-2.60667478	0.0091426	0.0482944
<i>YBX1P10</i>	-0.166805977	0.063997845	-2.60643114	0.0091491	0.0482944
<i>URB1-AS1</i>	-0.346198432	0.132828137	-2.60636369	0.0091509	0.0482944
<i>NOP58</i>	0.4506575	0.172937203	2.60590256	0.0091633	0.0483388
<i>CENPB</i>	-0.180752572	0.069374131	-2.60547512	0.0091747	0.0483785
<i>TAF5</i>	0.560398442	0.215117447	2.605081319	0.0091852	0.0484135
<i>KLHL5</i>	0.324771911	0.124707103	2.604277566	0.0092068	0.0485065
<i>MEF2BNB</i>	-0.280635069	0.107772032	-2.60396935	0.0092151	0.0485295
<i>XPR1</i>	0.319987256	0.122904472	2.60354445	0.0092265	0.0485483
<i>EIF4HP1</i>	-0.146129266	0.056124421	-2.60366633	0.0092233	0.0485483
<i>CEP44</i>	0.659990456	0.253544697	2.603053671	0.0092397	0.0485971
<i>THBS3</i>	-0.292498988	0.112386994	-2.60260531	0.0092518	0.04864
<i>PNKD</i>	-0.247280467	0.095050369	-2.60157292	0.0092797	0.0487452
<i>CLK3</i>	-0.224956723	0.086467381	-2.60163684	0.009278	0.0487452
<i>RBL1</i>	0.698272885	0.26842575	2.601363264	0.0092854	0.0487543
<i>DEK</i>	0.465277371	0.178877355	2.60109711	0.0092926	0.0487714
<i>RP11-175O19.4</i>	0.979557904	0.376750562	2.600017102	0.0093219	0.0489044
<i>MRPL27</i>	-0.199352384	0.076693178	-2.59934962	0.0093401	0.0489433
<i>SSC4D</i>	-0.601064453	0.231240186	-2.59930794	0.0093412	0.0489433
<i>MAP9</i>	1.068576731	0.411096859	2.59933081	0.0093406	0.0489433

<b>Gene</b>	<b>log2FoldChange</b>	<b>lfcSE</b>	<b>stat</b>	<b>pvalue</b>	<b>padj</b>
<i>ACOT13</i>	-0.26451474	0.101792956	-2.59855642	0.0093617	0.0490297
<i>BTBD3</i>	0.353475641	0.136071638	2.597717244	0.0093846	0.0491289
<i>METTL10</i>	0.654175816	0.251924035	2.596718553	0.0094119	0.0492511
<i>TMEM223</i>	-0.235895153	0.090867618	-2.59603101	0.0094308	0.0493289
<i>GAN</i>	0.714537398	0.275274864	2.595723373	0.0094392	0.0493522
<i>PSMD8</i>	-0.16653342	0.064163439	-2.59545659	0.0094465	0.0493696
<i>NDUFB11</i>	-0.186939818	0.072063921	-2.59408336	0.0094843	0.0495463
<i>NUDT17</i>	-0.479427046	0.184908278	-2.59278303	0.0095203	0.049713
<i>BICD1</i>	0.254772763	0.098289343	2.592069045	0.0095401	0.0497742
<i>PPP3R1</i>	0.317539246	0.122498608	2.592186574	0.0095368	0.0497742
<i>LSM3</i>	-0.229494641	0.088558254	-2.591454	0.0095571	0.0498423

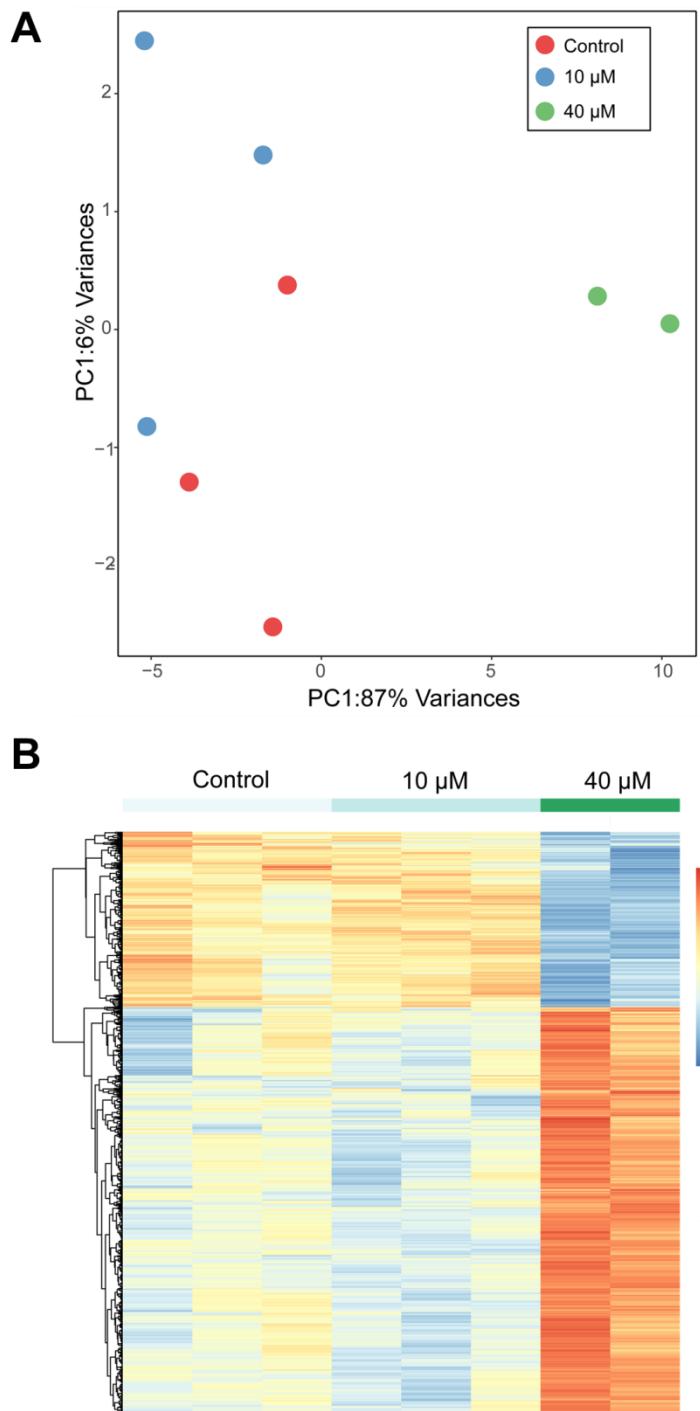
Note. log2FoldChange: log2 fold change of gene expression calculated by Maximum Likelihood Estimate (MLE); lfcSE: Standard error; stat: Wald statistic; pvalue: Wald test p-value; padj: Benjamini & Hochberg (BH) adjusted p-value.

**Table S3 Primer pairs for measuring mRNA levels of the targeted genes in U251-APP cells**

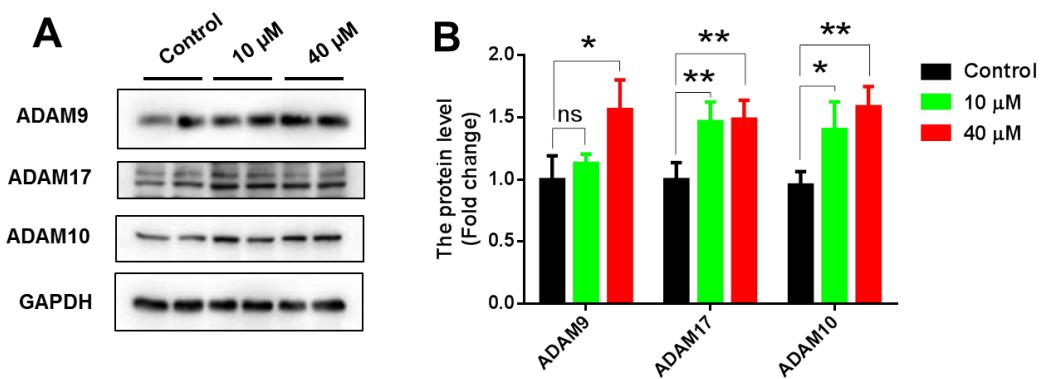
Primer	Sequence (5'-3')	Product length (bp)
<i>ADAM9 Forward</i>	TCTGCCACAGACCCGGTAT	127
<i>ADAM9 Reverse</i>	ATCTCCAGTCCAACTAGCACA	
<i>ADAM10 Forward</i>	TTTCAACCTACGAATGAAGAGGG	198
<i>ADAM10 Reverse</i>	TAAAATGTGCCACCACGAGTC	
<i>ADAM17 Forward</i>	GTGGATGGTAAAAACGAAAGCG	93
<i>ADAM17 Reverse</i>	GGCTAGAACCTAGAGTCAGG	
<i>GAPDH Forward</i>	GGAGCGAGATCCCTCCAAAAT	197
<i>GAPDH Reverse</i>	GGCTGTTGTCATACTCTCATGG	



**Figure S11** The A $\beta$ 42/A $\beta$ 40 ratio in culture supernatant of U251-APP cells treated with **1** or Gemfibrozil. Data are presented as means  $\pm$  SD. ns, not significant; Student's *t* test.



**Figure S12 RNA-sequencing of U251-APP cells treated with or without 1.** (A) Principal component analysis (PCA) of U251-APP cells treated with or without 1. PCA was performed using expression values of all genes, and each point represented a sample, with color referring to the treatment. (B) The heatmap showing differentially expressed genes from RNA-seq analysis of U251-APP cells treated with or without 1.



**Figure S13 Treatment of Compound 1 caused an increased protein level of ADAM9, ADAM17 and ADAM10 in U251-APP cells.** (A) Western blot result showing the protein levels of ADAM9, ADAM17 and ADAM10 in U251-APP cells. Cells were treated with or without Compound 1 for 24 h before the harvest. Each treatment contains 2 wells in a 6-well plate. (B) Relative protein abundance was normalized to GAPDH. ns, not significant; \*,  $P<0.05$ ; \*\*,  $P<0.01$ ; Student's  $t$  test. Bars represent mean  $\pm$  SD. We obtained consistent results based on 3 independent experiments.