SUPPLEMENTARY FIGURE and TABLE LEGENDS

Figure S1. Knockdown efficiency of Ubc9 or Senp1 in HeLa cells was determined by Western Blotting.

Figure S2. (A) SUMOplot prediction of human METTL3 protein. SUMOylation of human METTL3 protein was predicated by the program of Abgent SUMOplot (http://www.abgent.com/SUMOplot). (B) HA-METTL3-WT and HA-METTL3-4KR with or without His-SUMO1/Flag-Ubc9 were co-transfected into 293T cells. Forty-eight hours after transfection, cell lysates were prepared for Ni²⁺-NTA pull down, followed by Western blotting analysis with anti-HA and anti-METTL3 antibodies. (C) Amino acid sequence alignment of METTL3 sequences from different species as indicated. The conserved lysines are shown in red.

Figure S3. (**A**) HA-METTL3 with or without His-SUMO1/Flag-Ubc9 and EBG-Senp1 were co-transfected into 293T cells. 48 hrs after transfection, cells were lysed for immunoblotting with indicated antibodies. (**B**) METTL14 is not be SUMOylated in 293T cells. Flag-METTL14 with or without His-SUMO1, Flag-Ubc9 and EBG-Senp1 were transfected into 293T cells and the SUMOylation assay was performed with the method of Ni²⁺-NTA resin pull down. (**C**) HA-METTL3-WT or HA-METTL3-4KR was transfected into 293T-shSenp1 cells respectively. 48 hrs after transfection, cells were lysed in RIPA buffer and immunoprecipitated with anti-HA

antibody, followed by Western blotting with anti-CBP80, anti-eIF4E and anti-eIF3b. One-tenth of lysates as input were immunoblotted with indicated antibodies.

Figure S4. Representative LC-MS/MS spectra and the standard curve for m⁶A and A. (A) The A and m⁶A standard curve was obtained from four standard samples with different amounts of A and pure m6A, respectively. (**B**, **C**) On a LC-MS/MS system, the quantities of nucleotides in H1299-sh*METTL3*-METTL3-WT (**B**) and H1299-*shMETTL3*-METTL3-4KR (**C**) cells were quantified by its integration area in the corresponding chromatogram.

Figure S5. *In vitro* methylation activity assay of METTL3. (A) schematic diagram of RNA probes Seq1 and Seq2 for the *in vitro* methylation activity assay; **(B-C)** Purified METTL3/METTL14 complexes with or without the RNA probe Seq1 with the consensus sequence of 'GGACU' (**B**) or the RNA probe Seq2 with the point mutation sequence of 'GGAUU' (**C**) were subjected to *in vitro* methylation activity assay. The methylation of RNA-probe was measured by immunoblotting with the m⁶A antibody.

Table S1. Summary of the MeRIP m⁶A-seq and RNA-seq.

Table S2. List of 90 genes that exhibit a significant change between METTL3-WT and METTL3-4KR in both in m⁶A peak levels and abundance of the corresponding mRNA transcripts.

Figure S1







В

Figure S2

Α

SUMOplot prediction of human METTL3

| No. | Pos. | Group | Score |
|-----|------|--------------------------------|-------|
| 1 | K132 | QELIE V <u>K</u> RG LLQDD | 0.76 |
| 2 | K207 | SASEP A <u>k</u> ep akksr | 0.69 |
| 3 | K513 | VRSTS H <u>k</u> pd eiygm | 0.52 |
| 4 | K530 | LSPGT R<u>K</u>IE LFGRP | 0.44 |
| 5 | K27 | RLQRR R<u>K</u>QD SGHLD | 0.44 |
| 6 | K164 | GAVAE K <u>k</u> gp gevag | 0.37 |
| 7 | K163 | MGAVA E <u>K</u> KG PGEVA | 0.33 |



С

Rattus norvegicus Danio rerio

Homo sapiens 170AGTVTGQKRRAEQDSTTVAAFASSLVSGLNSSASEPAKEPAKKSRKHAASD220 Mouse ¹⁷⁰AGT IAGQKRRAEQDLTTVTTFASSLASG LASSASEPAKEPAKKSRKHAASD²²⁰ ¹⁷⁰AGT ITGQKRRAEQD ITTVATFTSSLASG LGSSTSEPAKEPAKKSRKHAASD²²⁰ Bos taurus 170AGT IAGQKRRAEQDSTTAAAFTSSLASG LASSASEVAKEPTKKSRKHAASD220 ¹⁶²ADD ITHQKRAPGSSPSIQA....LATASISQLTASSGGGGGGADKK.....KVQASH²²⁵ Pan troglodytes 170AGTVTGQKRRAEQDSTTVAAFASSLVSG LNSSASEPAKEPAKKSRKHAASD220 Xenopus tropicalis ¹⁶⁸AG......AKKRRLQEADPSASSLSSS.....SSASASGEKKASEPQKKARKNA..SH²¹³ Macaca mulatta ¹⁷⁰AGTVTGQKRRAEQDSTTVAAFASSLA SG LSSSASEPAKEPAKKSRKHAASD²²⁰ capra hircus 170AGT IAGQKRRA EQDSTTAAAFTSSLASG LASSTSEVAKEPTKKSRKHAASD220

Figure S3



-+



С





В



С



Counts vs. Acquisition time(min)

Figure S4



IB: anti-m6A

A

| Sample | Seq Type | Total Reads | Aligned Reads |
|--------|----------------------|-------------|---------------------|
| WT | m ⁶ A-seq | 40,896,078 | 40,542,449 (99.13%) |
| | RNA-seq | 74,526,128 | 68,494,267(91.91%) |
| 4KR | m ⁶ A-seq | 44,910,228 | 44,520,205 (99.13%) |
| | RNA-seq | 73,850,942 | 68,607,238(92.90%) |

Table S1 (Related to Figure 6). Summary of the m⁶A-seq and RNA-seq reads

| | | | | m ⁶ A lev | vel change | | | | 1 |
|------------|------------|-----------|---|----------------------|------------|---|-----|-----------------------|----------|
| Gene | Pattern | peak 1 | | | peak 2 | | | mRNA abundance change | |
| | | Fold | р | Loc | Fold | р | Loc | Fold | р |
| HS3ST3A1 | Hypo-down | 7.031E-05 | 0 | 5UTR | 0.0001563 | 0 | CDS | 0.3670427 | 5.00E-05 |
| KIAA1211 | Hypo-down | 5.876E-05 | 0 | CDS | 0.0002103 | 0 | CDS | 0.6128063 | 1.71E-01 |
| ENTPD1 | Hypo-down | 0.0002035 | 0 | 3UTR | | | | 0.0597048 | 1.00E+00 |
| HIST2H2AA4 | Hypo-down | 6.152E-05 | 0 | stopC | | | | 0.0751986 | 1.48E-01 |
| JSRP1 | Hypo-down | 0.0002175 | 0 | CDS | | | | 0.0983303 | 2.89E-01 |
| HIST2H4B | Hypo-down | 0.0001723 | 0 | stopC | | | | 0.186282 | 3.73E-02 |
| HIST2H2AA3 | Hypo-down | 0.0001159 | 0 | stopC | | | | 0.2011606 | 1.86E-01 |
| RBL1 | Hypo-down | 0.0002103 | 0 | CDS | | | | 0.2507671 | 1.00E+00 |
| ZBED6 | Hypo-down | 0.0001229 | 0 | CDS | | | | 0.3324502 | 1.00E+00 |
| DLG2 | Hypo-down | 0.0002089 | 0 | stopC | | | | 0.3951192 | 1.76E-02 |
| EFCAB6 | Hypo-down | 0.0001687 | 0 | CDS | | | | 0.4535615 | 1.00E+00 |
| COL11A1 | Hypo-down | 0.000216 | 0 | CDS | | | | 0.4679382 | 1.00E+00 |
| NAV3 | Hypo-down | 0.0001347 | 0 | CDS | | | | 0.4734651 | 8.37E-02 |
| AGAP8 | Hypo-down | 0.0001358 | 0 | CDS | | | | 0.5003581 | 7.25E-02 |
| HIST1H2AH | Hypo-down | 8.098E-05 | 0 | CDS | | | | 0.5106175 | 6.24E-01 |
| AC096677.1 | Hypo-down | 9.703E-05 | 0 | stopC | | | | 0.5858251 | 7.56E-01 |
| PLEKHA3 | Hypo-down | 0.0001487 | 0 | CDS | | | | 0.6308422 | 2.15E-01 |
| AARD | Hypo-down | 0.000219 | 0 | stopC | | | | 0.6457291 | 2.71E-01 |
| EXTL3 | Hypo-down | 0.0001733 | 0 | 3UTR | | | | 0.6654089 | 1.18E-01 |
| FCGBP | Hypo-up | 6.776E-05 | 0 | CDS | 0.0001196 | 0 | CDS | 1.5221463 | 3.99E-02 |
| PLCXD1 | Hypo-up | 0.0001442 | 0 | CDS | 0.0001487 | 0 | CDS | 5.1047843 | 3.80E-02 |
| HSPG2 | Hypo-up | 0.0001376 | 0 | CDS | 0.0001.07 | Ŭ | | 1.5190538 | 3.86E-02 |
| ALMS1 | Hypo-up | 0.000113 | 0 | CDS | | | | 1.5288162 | 2.22E-01 |
| COL18A1 | Hypo-up | 0.0002107 | 0 | CDS | | | | 1.5507456 | 5.65E-02 |
| KLHL11 | Hypo-up | 0.0001876 | 0 | CDS | | | | 1.5011623 | 1.00E+00 |
| FBN1 | Hypo-up | 0.000152 | 0 | CDS | | | | 1.6033907 | 3.59E-02 |
| TMEM185A | Hypo-up | 0.0001311 | 0 | stopC | | | | 1.641506 | 1.71E-01 |
| ABCA5 | Hypo-up | 6.001E-05 | 0 | CDS | | | | 1.6493185 | 2.27E-01 |
| ANKRD54 | Hypo-up | 0.0002044 | 0 | CDS | | | | 1.6611404 | 4.99E-01 |
| AGAP4 | Hypo-up | 0.0002023 | 0 | CDS | | | | 1.7345639 | 4.05E-02 |
| PCDHGB1 | Hypo-up | 0.0001555 | 0 | CDS | | | | 1.7589202 | 1.00E+00 |
| ZNF442 | Hypo-up | 0.0002112 | 0 | 5UTR | | | | 1 7611026 | 4 77E-02 |
| BMP8A | Hypo-up | 0.0002093 | 0 | 3UTR | | | | 2.0041215 | 1.00E+00 |
| SHPK | Hypo-up | 0.0001948 | 0 | 3UTR | | | | 2.0202726 | 1 20E-01 |
| CACNA2D1 | Hypo-up | 0.0002195 | 0 | 3UTR | | | | 2.0496392 | 1.05E-01 |
| GPR146 | Hypo-up | 0.0001186 | 0 | CDS | | | | 2.0747823 | 6 52E-01 |
| ATP6V1C2 | Hypo-up | 0.0002126 | 0 | 3UTR | | | | 2.673317 | 6.83E-01 |
| GAGE1 | Hypo-up | 0.0001832 | 0 | CDS | | | | 2 2464392 | 5.00E-05 |
| FREM2 | Hypo-up | 0.0002126 | 0 | CDS | | | | 2.4535659 | 1 00E+00 |
| RASA4B | Hyper-down | 7639 7 | 0 | 5UTR | | | | 0.5724109 | 4.45E-01 |
| TUBR3 | Hyper-down | 15774.8 | 0 | stopC | | | | 0.6634511 | 7.55E-01 |
| C5orf42 | Hyper-down | 5243 | 0 | CDS | 5176.2 | 0 | CDS | 0.5908714 | 9.45E-02 |

Table S2. List of 90 genes that exhibited significant changes in both the m^6A peak levels and the overall abundance of corresponding mRNA transcripts between METTL3-WT and METTL3-4KR re-expression.

| GATSL2 | Hyper-down | 6455.7 | 0 | stopC | 4374.1 | 0 | 3UTR | 0.6356687 | 4.47E-01 |
|---|--|--|---|--|--------|---|------|--|--|
| EGR1 | Hyper-down | 6904.4 | 0 | stopC | 5481.7 | 0 | CDS | 0.6645423 | 1.73E-02 |
| GAGE2C | Hyper-down | 8842.8 | 0 | 3UTR | | | | 0.1289318 | 5.00E-05 |
| PLXNB3 | Hyper-down | 4374.1 | 0 | CDS | | | | 0.2499012 | 1.00E+00 |
| CNOT6L | Hyper-down | 9864.4 | 0 | CDS | | | | 0.3020732 | 1.50E-04 |
| GAGE2E | Hyper-down | 5147.5 | 0 | CDS | | | | 0.3389654 | 1.00E+00 |
| APC2 | Hyper-down | 6197.9 | 0 | CDS | | | | 0.4183986 | 2.60E-01 |
| TREX2 | Hyper-down | 6455.7 | 0 | stopC | | | | 0.4683081 | 5.69E-01 |
| ZNF649 | Hyper-down | 10045.8 | 0 | CDS | | | | 0.5413704 | 1.43E-01 |
| SOX4 | Hyper-down | 9864.4 | 0 | 3UTR | | | | 0.5811482 | 6.95E-03 |
| PTPRU | Hyper-down | 9644.8 | 0 | CDS | | | | 0.5985846 | 1.00E+00 |
| PRKG2 | Hyper-down | 5472.2 | 0 | CDS | | | | 0.602919 | 1.00E+00 |
| HIST1H2AI | Hyper-down | 5424.5 | 0 | stopC | | | | 0.6096635 | 4.12E-01 |
| S1PR2 | Hyper-down | 14705.4 | 0 | stopC | | | | 0.6154877 | 7.59E-01 |
| PIANP | Hyper-down | 4221.4 | 0 | CDS | | | | 0.6252664 | 9.92E-02 |
| POTEE | Hyper-down | 3629.4 | 0 | CDS | | | | 0.6279576 | 1.00E+00 |
| CCDC142 | Hyper-down | 6217 | 0 | CDS | | | | 0.6335481 | 4.05E-01 |
| AKAP13 | Hyper-down | 5319.4 | 0 | CDS | | | | 0.645927 | 2.25E-01 |
| RASA4 | Hyper-up | 8078.9 | 0 | 5UTR | | | | 3.1345319 | 7.10E-02 |
| GAGE2B | Hyper-up | 16958.8 | 0 | stopC | 4822.9 | 0 | CDS | 1.5825916 | 1.38E-01 |
| | • • • | | | - | | | | | |
| RGPD5 | Hyper-up | 3495.7 | 0 | 3UTR | 3457.5 | 0 | 3UTR | 6.516196 | 9.50E-04 |
| RGPD5 GOLGA8J | Hyper-up Hyper-up | 3495.7 7945.2 | 0 0 | 3UTR 3UTR | 3457.5 | 0 | 3UTR | 6.516196 1.5023355 | 9.50E-04 1.00E+00 |
| RGPD5 GOLGA8J PDP2 | Hyper-up Hyper-up Hyper-up | 3495.7 7945.2 4192.7 | 0 0 0 | 3UTR 3UTR stopC | 3457.5 | 0 | 3UTR | 6.516196 1.5023355 1.5307503 | 9.50E-04 1.00E+00 9.59E-02 |
| RGPD5 GOLGA8J PDP2 ZBTB10 | Hyper-up Hyper-up Hyper-up Hyper-up | 3495.7 7945.2 4192.7 10485.1 | 0 0 0 0 | 3UTR 3UTR stopC CDS | 3457.5 | 0 | 3UTR | 6.5161961.50233551.53075031.5419628 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 | Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 | 0 0 0 0 0 | 3UTR 3UTR stopC CDS 3UTR | 3457.5 | 0 | 3UTR | 6.5161961.50233551.53075031.54196281.5532155 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C | Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 | 0 0 0 0 0 0 | 3UTR 3UTR stopC CDS 3UTR stopC | 3457.5 | 0 | 3UTR | 6.5161961.50233551.53075031.54196281.55321551.5638217 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C VAX1 | Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 4536.5 | 0 0 0 0 0 0 0 0 | 3UTR 3UTR stopC CDS 3UTR stopC 3UTR | 3457.5 | 0 | 3UTR | 6.5161961.50233551.53075031.54196281.55321551.56382171.5655125 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 2.28E-01 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C VAX1 TNC | Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 4536.5 12299.2 | 0 0 0 0 0 0 0 0 0 | 3UTR 3UTR stopC CDS 3UTR stopC 3UTR CDS | 3457.5 | 0 | 3UTR | 6.5161961.50233551.53075031.54196281.55321551.56382171.56551251.5694641 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 2.28E-01 1.00E+00 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C VAX1 TNC KLF13 | Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 4536.5 12299.2 3791.7 | 0 0 0 0 0 0 0 0 0 0 | 3UTR 3UTR stopC CDS 3UTR stopC 3UTR CDS 3UTR | 3457.5 | 0 | 3UTR | 6.5161961.50233551.53075031.54196281.55321551.56382171.56551251.56946411.6166216 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 2.28E-01 1.00E+00 2.27E-01 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C VAX1 TNC KLF13 HIST4H4 | Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 4536.5 12299.2 3791.7 6121.5 | 0 0 0 0 0 0 0 0 0 0 0 0 | 3UTR 3UTR stopC CDS 3UTR stopC 3UTR CDS 3UTR stopC | 3457.5 | 0 | 3UTR | 6.5161961.50233551.53075031.54196281.55321551.56382171.56551251.56946411.61662161.6531997 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 2.28E-01 1.00E+00 2.27E-01 4.29E-01 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C VAX1 TNC KLF13 HIST4H4 NEO1 | Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 4536.5 12299.2 3791.7 6121.5 9215.1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3UTR 3UTR stopC CDS 3UTR stopC 3UTR CDS 3UTR stopC 3UTR stopC 3UTR | 3457.5 | 0 | 3UTR | 6.5161961.50233551.53075031.54196281.55321551.56382171.56551251.56946411.61662161.65319971.7734959 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 2.28E-01 1.00E+00 2.27E-01 4.29E-01 9.80E-02 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C VAX1 TNC KLF13 HIST4H4 NEO1 ANK3 | Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 4536.5 12299.2 3791.7 6121.5 9215.1 3390.7 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3UTR 3UTR stopC CDS 3UTR stopC 3UTR CDS 3UTR stopC 3UTR CDS | 3457.5 | 0 | 3UTR | 6.5161961.50233551.53075031.54196281.55321551.56382171.56551251.56946411.61662161.65319971.77349591.7910579 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 2.28E-01 1.00E+00 2.27E-01 4.29E-01 9.80E-02 2.52E-01 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C VAX1 TNC KLF13 HIST4H4 NEO1 ANK3 GNRH2 | Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 4536.5 12299.2 3791.7 6121.5 9215.1 3390.7 4479.2 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3UTR 3UTR stopC CDS 3UTR stopC 3UTR CDS 3UTR stopC 3UTR CDS CDS | 3457.5 | | 3UTR | 6.5161961.50233551.50233551.53075031.54196281.55321551.56382171.56551251.56946411.61662161.65319971.77349591.79105792.2374105 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 2.28E-01 1.00E+00 2.27E-01 4.29E-01 9.80E-02 2.52E-01 1.00E+00 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C VAX1 TNC KLF13 HIST4H4 NEO1 ANK3 GNRH2 ZNF846 | Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 4536.5 12299.2 3791.7 6121.5 9215.1 3390.7 4479.2 5453.1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3UTR 3UTR stopC 3UTR stopC 3UTR CDS 3UTR stopC 3UTR CDS CDS CDS | 3457.5 | | 3UTR | 6.5161961.50233551.53075031.54196281.55321551.56382171.56551251.56946411.61662161.65319971.77349591.79105792.23741052.2731139 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 2.28E-01 1.00E+00 2.27E-01 4.29E-01 9.80E-02 2.52E-01 1.00E+00 1.33E-02 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C VAX1 TNC KLF13 HIST4H4 NEO1 ANK3 GNRH2 ZNF846 PTPRM | Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 4536.5 12299.2 3791.7 6121.5 9215.1 3390.7 4479.2 5453.1 4851.6 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3UTR 3UTR stopC CDS 3UTR stopC 3UTR CDS 3UTR StopC 3UTR CDS CDS CDS CDS | 3457.5 | | 3UTR | 6.5161961.50233551.53075031.54196281.55321551.56382171.56551251.56946411.61662161.65319971.77349591.79105792.23741052.27311392.4359086 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 2.28E-01 1.00E+00 2.27E-01 4.29E-01 9.80E-02 2.52E-01 1.00E+00 1.33E-02 1.00E+00 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C VAX1 TNC KLF13 HIST4H4 NEO1 ANK3 GNRH2 ZNF846 PTPRM HIST1H1D | Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 4536.5 12299.2 3791.7 6121.5 9215.1 3390.7 4479.2 5453.1 4851.6 11258.5 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3UTR 3UTR stopC 3UTR stopC 3UTR CDS 3UTR CDS 3UTR CDS CDS CDS CDS CDS | 3457.5 | | 3UTR | 6.5161961.50233551.53075031.54196281.55321551.56382171.56551251.56946411.61662161.65319971.77349591.79105792.23741052.27311392.43590865.0422233 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 2.28E-01 1.00E+00 2.27E-01 4.29E-01 9.80E-02 2.52E-01 1.00E+00 1.33E-02 1.00E+00 1.21E-01 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C VAX1 TNC KLF13 HIST4H4 NEO1 ANK3 GNRH2 ZNF846 PTPRM HIST1H1D NBPF8 | Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 4536.5 12299.2 3791.7 6121.5 9215.1 3390.7 4479.2 5453.1 4851.6 11258.5 2970.5 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3UTR 3UTR stopC 3UTR stopC 3UTR CDS 3UTR stopC 3UTR StopC 3UTR CDS CDS CDS CDS CDS CDS CDS | 3457.5 | | 3UTR | 6.5161961.50233551.53075031.54196281.55321551.56382171.56551251.56946411.61662161.65319971.77349591.79105792.23741052.27311392.43590865.04222335.0456146 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 2.28E-01 1.00E+00 2.27E-01 4.29E-01 9.80E-02 2.52E-01 1.00E+00 1.33E-02 1.00E+00 1.21E-01 1.00E+00 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C VAX1 TNC KLF13 HIST4H4 NEO1 ANK3 GNRH2 ZNF846 PTPRM HIST1H1D NBPF8 TXNDC2 | Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 4536.5 12299.2 3791.7 6121.5 9215.1 3390.7 4479.2 5453.1 4851.6 11258.5 2970.5 8098 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 3UTR 3UTR stopC CDS 3UTR stopC 3UTR CDS 3UTR CDS CDS CDS CDS CDS CDS CDS CDS | 3457.5 | | 3UTR | 6.5161961.50233551.53075031.54196281.55321551.56382171.56551251.56946411.61662161.65319971.77349591.79105792.23741052.27311392.43590865.04222335.04561465.4265302 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 2.28E-01 1.00E+00 2.27E-01 4.29E-01 9.80E-02 2.52E-01 1.00E+00 1.33E-02 1.00E+00 1.21E-01 1.00E+00 6.47E-02 |
| RGPD5 GOLGA8J PDP2 ZBTB10 TAP2 PDE4C VAX1 TNC KLF13 HIST4H4 NEO1 ANK3 GNRH2 ZNF846 PTPRM HIST1H1D NBPF8 TXNDC2 MEI1 | Hyper-up | 3495.7 7945.2 4192.7 10485.1 11640.4 12643 4536.5 12299.2 3791.7 6121.5 9215.1 3390.7 4479.2 5453.1 4851.6 11258.5 2970.5 8098 30326.5 | 0 0 | 3UTR 3UTR stopC CDS 3UTR stopC 3UTR CDS 3UTR CDS CDS CDS CDS CDS CDS CDS CDS CDS CDS | 3457.5 | | 3UTR | 6.5161961.50233551.53075031.54196281.55321551.56382171.56551251.56946411.61662161.65319971.77349591.79105792.23741052.27311392.43590865.04222335.04561465.426530212.833653 | 9.50E-04 1.00E+00 9.59E-02 1.16E-02 6.08E-01 2.72E-01 2.28E-01 1.00E+00 2.27E-01 4.29E-01 9.80E-02 2.52E-01 1.00E+00 1.33E-02 1.00E+00 6.47E-02 1.00E+00 |

(a). Fold, fold change; Loc, location; 3UTR, 3' untranslated region; 5UTR, 5' untranslated region; CDS, coding region; StopC, stop codon; p, p value.