Table 3 Top 50 annotated genes with increased methylation, ranked by log2-fold change

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| Rank | Symbol | Gene Name | Log2-fold Change (TRAMP/WT) | Location | Type(s) | Methylation  Region |
| 1 | FGD4 | FYVE, RhoGEF and PH domain containing 4 | 4.993 | Cytoplasm | other | promoter |
| 2 | MED13L | mediator complex subunit 13-like | 4.993 | Nucleus | other | downstream |
| 3 | DYNC1I1 | dynein, cytoplasmic 1, intermediate chain 1 | 4.926 | Cytoplasm | other | body |
| 4 | XK | X-linked Kx blood group | 4.781 | Plasma Membrane | transporter | body |
| 5 | EAPP | E2F-associated phosphoprotein | 4.703 | Cytoplasm | other | body |
| 6 | TGFA | transforming growth factor, alpha | 4.534 | Extracellular Space | growth factor | promoter |
| 7 | BTG1 | B-cell translocation gene 1, anti-proliferative | 4.440 | Nucleus | transcription regulator | promoter |
| 8 | BARD1 | BRCA1 associated RING domain 1 | 4.341 | Nucleus | transcription regulator | promoter |
| 9 | GJA1 | gap junction protein, alpha 1, 43 kDa | 4.341 | Plasma Membrane | transporter | promoter |
| 10 | Zfp640 | zinc finger protein 640 | 4.234 | Other | other | downstream |
| 11 | S100A5 | S100 calcium-binding protein A5 | 4.119 | Nucleus | other | promoter |
| 12 | SOX17 | SRY (sex-determining region Y)-box 17 | 4.119 | Nucleus | transcription regulator | downstream |
| 13 | PDGFRL | platelet-derived growth factor receptor-like | 3.993 | Plasma Membrane | kinase | body |
| 14 | ZKSCAN2 | zinc finger with KRAB and SCAN domains 2 | 3.993 | Nucleus | transcription regulator | promoter |
| 15 | DMXL2 | Dmx-like 2 | 3.926 | Cytoplasm | other | body |
| 16 | LEPR | leptin receptor | 3.926 | Plasma Membrane | transmembrane receptor | body |
| 17 | AOAH | acyloxyacyl hydrolase (neutrophil) | 3.855 | Extracellular Space | enzyme | promoter |
| 18 | Apol7e | apolipoprotein L 7e | 3.855 | Other | other | body |
| 19 | CACNG6 | calcium channel, voltage-dependent, gamma subunit 6 | 3.855 | Plasma Membrane | ion channel | promoter |
| 20 | CHCHD3 | coiled-coil-helix-coiled-coil-helix domain containing 3 | 3.855 | Cytoplasm | other | body |
| 21 | FAM174B | family with sequence similarity 174, member B | 3.855 | Other | other | body |
| 22 | GALNT13 | polypeptide N-acetylgalactosaminyltransferase 13 | 3.855 | Cytoplasm | enzyme | body |
| 23 | GPR37 | G protein-coupled receptor 37 (endothelin receptor type B-like) | 3.855 | Plasma Membrane | G-protein coupled receptor | downstream |
| 24 | Mup1 | major urinary protein 1 | 3.855 | Extracellular Space | other | downstream |
| 25 | NGF | nerve growth factor (beta polypeptide) | 3.855 | Extracellular Space | growth factor | downstream |
| 26 | OLFM3 | olfactomedin 3 | 3.855 | Cytoplasm | other | body |
| 27 | PCBP3 | poly(rC)-binding protein 3 | 3.855 | Nucleus | other | body |
| 28 | RBMS3 | RNA-binding motif, single-stranded-interacting protein 3 | 3.855 | Other | other | body |
| 29 | TMX1 | thioredoxin-related transmembrane protein 1 | 3.855 | Cytoplasm | enzyme | downstream |
| 30 | ZNF14 | zinc finger protein 14 | 3.855 | Nucleus | transcription regulator | body |
| 31 | SLC1A4 | solute carrier family 1 (glutamate/neutral amino acid transporter), member 4 | 3.807 | Plasma Membrane | transporter | body |
| 32 | ZFAND3 | zinc finger, AN1-type domain 3 | 3.717 | Other | other | body |
| 33 | C1orf162 | chromosome 1 open reading frame 162 | 3.703 | Other | transporter | promoter |
| 34 | C9orf131 | chromosome 9 open reading frame 131 | 3.703 | Other | other | body |
| 35 | CRYZ | crystallin, zeta (quinone reductase) | 3.703 | Cytoplasm | enzyme | body |
| 36 | CYP2A6 | cytochrome P450, family 2, subfamily A, polypeptide 6 | 3.703 | Cytoplasm | enzyme | body |
| 37 | CYP51A1 | cytochrome P450, family 51, subfamily A, polypeptide 1 | 3.703 | Cytoplasm | enzyme | downstream |
| 38 | DSPP | dentin sialophosphoprotein | 3.703 | Extracellular Space | other | promoter |
| 39 | GALNT3 | polypeptide N-acetylgalactosaminyltransferase 3 | 3.703 | Cytoplasm | enzyme | downstream |
| 40 | Gm4836 | predicted gene 4836 | 3.703 | Nucleus | other | downstream |
| 41 | GRIP1 | glutamate receptor-interacting protein 1 | 3.703 | Plasma Membrane | transcription regulator | promoter |
| 42 | GUCY1A2 | guanylate cyclase 1, soluble, alpha 2 | 3.703 | Cytoplasm | enzyme | body |
| 43 | HNMT | histamine N-methyltransferase | 3.703 | Cytoplasm | enzyme | body |
| 44 | LRRC8B | Leucine-rich repeat containing 8 family, member B | 3.703 | Other | other | body |
| 45 | MEF2A | myocyte enhancer factor 2A | 3.703 | Nucleus | transcription regulator | body |
| 46 | NRG3 | neuregulin 3 | 3.703 | Extracellular Space | growth factor | promoter |
| 47 | PCDH17 | protocadherin 17 | 3.703 | Other | other | promoter |
| 48 | PDP2 | pyruvate dehydrogenase phosphatase catalytic subunit 2 | 3.703 | Cytoplasm | phosphatase | promoter |
| 49 | SH2D4B | SH2 domain containing 4B | 3.703 | Other | other | body |
| 50 | Smok2b | sperm motility kinase 2B | 3.703 | Other | kinase | body |