Table 4 Top 50 annotated genes with decreased methylation, ranked by log2-fold change

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| Rank | Symbol | Gene Name | Log2fold Change (TRAMP/WT) | Location | Type(s) | Methylation region |
| 1 | Rrbp1 | Ribosome-binding protein 1 | -5.824 | Cytoplasm | transporter | body |
| 2 | CISD2 | CDGSH iron sulfur domain 2 | -4.373 | Cytoplasm | other | downstream |
| 3 | NR4A1 | nuclear receptor subfamily 4, group A, member 1 | -4.324 | Nucleus | ligand-dependent nuclear receptor | body |
| 4 | LCMT1 | leucine carboxyl methyltransferase 1 | -4.051 | Cytoplasm | enzyme | body |
| 5 | XRCC6BP1 | XRCC6 binding protein 1 | -3.990 | Other | kinase | downstream |
| 6 | TTR | transthyretin | -3.926 | Extracellular Space | transporter | promoter |
| 7 | ZNF536 | zinc finger protein 536 | -3.859 | Other | other | downstream |
| 8 | FARP1 | FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived) | -3.788 | Plasma Membrane | other | body |
| 9 | TNRC18 | trinucleotide repeat containing 18 | -3.788 | Other | other | body |
| 10 | FOXL1 | forkhead box L1 | -3.714 | Nucleus | transcription regulator | downstream |
| 11 | ZMAT4 | zinc finger, matrin-type 4 | -3.714 | Nucleus | other | promoter |
| 12 | ABCC2 | ATP-binding cassette, sub-family C (CFTR/MRP), member 2 | -3.636 | Plasma Membrane | transporter | body |
| 13 | AMFR | autocrine motility factor receptor, E3 ubiquitin protein ligase | -3.636 | Plasma Membrane | transmembrane receptor | downstream |
| 14 | ARSK | arylsulfatase family, member K | -3.636 | Extracellular Space | enzyme | body |
| 15 | GRM3 | glutamate receptor, metabotropic 3 | -3.636 | Plasma Membrane | G-protein coupled receptor | promoter |
| 16 | HTR1F | 5-hydroxytryptamine (serotonin) receptor 1F, G protein-coupled | -3.636 | Plasma Membrane | G-protein coupled receptor | body |
| 17 | CC2D2A | coiled-coil and C2 domain containing 2A | -3.554 | Other | other | promoter |
| 18 | CSMD1 | CUB and Sushi multiple domains 1 | -3.554 | Plasma Membrane | other | body |
| 19 | HIBCH | 3-hydroxyisobutyryl-CoA hydrolase | -3.554 | Cytoplasm | enzyme | body |
| 20 | NMT2 | N-myristoyltransferase 2 | -3.554 | Cytoplasm | enzyme | promoter |
| 21 | PCDH20 | protocadherin 20 | -3.554 | Other | other | promoter |
| 22 | PDCD1 | programmed cell death 1 | -3.554 | Plasma Membrane | phosphatase | promoter |
| 23 | QRFP | pyroglutamylated RFamide peptide | -3.554 | Extracellular Space | other | downstream |
| 24 | REG3G | regenerating islet-derived 3 gamma | -3.554 | Extracellular Space | other | downstream |
| 25 | TLR4 | toll-like receptor 4 | -3.554 | Plasma Membrane | transmembrane receptor | downstream |
| 26 | TNRC6B | trinucleotide repeat containing 6B | -3.554 | Other | other | body |
| 27 | CCR3 | chemokine (C-C motif) receptor 3 | -3.466 | Plasma Membrane | G-protein coupled receptor | promoter |
| 28 | Cngb1 | cyclic nucleotide gated channel beta 1 | -3.466 | Other | other | body |
| 29 | CNTNAP5 | contactin associated protein-like 5 | -3.466 | Other | other | body |
| 30 | Cox7c | cytochrome c oxidase subunit VIIc | -3.466 | Cytoplasm | other | promoter |
| 31 | EIF4EBP1 | eukaryotic translation initiation factor 4E binding protein 1 | -3.466 | Cytoplasm | translation regulator | downstream |
| 32 | FGF10 | fibroblast growth factor 10 | -3.466 | Extracellular Space | growth factor | downstream |
| 33 | GNAI1 | guanine nucleotide-binding protein (G protein), alpha inhibiting activity polypeptide 1 | -3.466 | Plasma Membrane | enzyme | promoter |
| 34 | Ins1 | insulin I | -3.466 | Extracellular Space | other | promoter |
| 35 | ITGA8 | integrin, alpha 8 | -3.466 | Plasma Membrane | other | body |
| 36 | JAG1 | jagged 1 | -3.466 | Extracellular Space | growth factor | promoter |
| 37 | Pcdh10 | protocadherin 10 | -3.466 | Other | other | promoter |
| 38 | PPP1R17 | protein phosphatase 1, regulatory subunit 17 | -3.466 | Cytoplasm | other | downstream |
| 39 | Serbp1 | Serpine1 mRNA-binding protein 1 | -3.466 | Cytoplasm | other | promoter |
| 40 | Wasl | Wiskott-Aldrich syndrome-like (human) | -3.466 | Cytoplasm | other | promoter |
| 41 | ABAT | 4-aminobutyrate aminotransferase | -3.373 | Cytoplasm | enzyme | body |
| 42 | ANKMY2 | ankyrin repeat and MYND domain containing 2 | -3.373 | Plasma Membrane | other | downstream |
| 43 | Card11 | caspase recruitment domain family, member 11 | -3.373 | Other | other | body |
| 44 | CDK5R1 | cyclin-dependent kinase 5, regulatory subunit 1 (p35) | -3.373 | Nucleus | kinase | downstream |
| 45 | DACH1 | dachshund family transcription factor 1 | -3.373 | Nucleus | transcription regulator | downstream |
| 46 | FGGY | FGGY carbohydrate kinase domain containing | -3.373 | Other | other | body |
| 47 | GADD45G | growth arrest and DNA-damage-inducible, gamma | -3.373 | Nucleus | other | downstream |
| 48 | GLRB | glycine receptor, beta | -3.373 | Plasma Membrane | ion channel | body |
| 49 | LRRTM1 | Leucine-rich repeat transmembrane neuronal 1 | -3.373 | Plasma Membrane | other | downstream |
| 50 | NEDD4L | neural precursor cell expressed, developmentally down-regulated 4-like, E3 ubiquitin protein ligase | -3.373 | Cytoplasm | enzyme | body |