

Supplementary Table 3: Modulated genes in Suit2-007 cells in response to OPTN knockdown

| Gene no. | Gene symbol | Entrez Gene Name | Expression fold change | Cellular location of the respective protein | Function / nature of the protein |
|-----------------------------|--------------------|---|-------------------------------|--|---|
| Down-regulated genes | | | | | |
| 1 | IFI27 | interferon alpha inducible protein 27 | -5,129 | Cytoplasm | other |
| 2 | IFI6 | interferon alpha inducible protein 6 | -3,763 | Cytoplasm | other |
| 3 | MX1 | MX dynamin like GTPase 1 | -2,588 | Cytoplasm | enzyme |
| 4 | OAS2 | 2'-5'-oligoadenylate synthetase 2 | -2,48 | Cytoplasm | enzyme |
| 5 | IFITM1 | interferon induced transmembrane protein 1 | -2,318 | Plasma Membrane | transmembrane receptor |
| 6 | SMIM32 | small integral membrane protein 32 | -2,302 | Other | other |
| 7 | IRF9 | interferon regulatory factor 9 | -2,147 | Nucleus | transcription regulator |
| 8 | BST2 | bone marrow stromal cell antigen 2 | -2,107 | Plasma Membrane | other |
| 9 | H3F3AP4 | H3 histone, family 3A, pseudogene 4 | -1,965 | Other | other |
| 10 | MSRB2 | methionine sulfoxide reductase B2 | -1,943 | Nucleus | transcription regulator |
| 11 | ISG15 | ISG15 ubiquitin-like modifier | -1,935 | Extracellular Space | other |
| 12 | UBE2L6 | ubiquitin conjugating enzyme E2 L6 | -1,911 | Cytoplasm | enzyme |
| 13 | VGLL4 | vestigial like family member 4 | -1,897 | Nucleus | other |
| 14 | SLC2A2 | solute carrier family 2 member 2 | -1,894 | Plasma Membrane | transporter |
| 15 | SLC22A3 | solute carrier family 22 member 3 | -1,843 | Plasma Membrane | transporter |
| 16 | FCGBP | Fc fragment of IgG binding protein | -1,835 | Extracellular Space | other |
| 17 | FXVD2 | FXVD domain containing ion transport regulator 2 | -1,827 | Plasma Membrane | ion channel |
| 18 | RAB40B | RAB40B, member RAS oncogene family | -1,807 | Plasma Membrane | enzyme |
| 19 | ARRB1 | arrestin beta 1 | -1,8 | Cytoplasm | other |
| 20 | POLR3A | RNA polymerase III subunit A | -1,786 | Nucleus | enzyme |
| 21 | VAV3 | vav guanine nucleotide exchange factor 3 | -1,783 | Extracellular Space | cytokine |
| 22 | HLA-DMB | major histocompatibility complex, class II, DM beta | -1,77 | Plasma Membrane | transmembrane receptor |

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|----|-------------------------|---|--------|-----------------|-------------------------|
| 23 | IFIT1 | interferon induced protein with tetratricopeptide repeats 1 | -1,759 | Cytoplasm | other |
| 24 | RGPD4 (includes others) | RANBP2-like and GRIP domain containing 5 | -1,754 | Nucleus | enzyme |
| 25 | ANKRD33 | ankyrin repeat domain 33 | -1,751 | Nucleus | transcription regulator |
| 26 | OAS1 | 2'-5'-oligoadenylate synthetase 1 | -1,74 | Cytoplasm | enzyme |
| 27 | SLC16A12 | solute carrier family 16 member 12 | -1,721 | Plasma Membrane | transporter |
| 28 | OCIAD1 | OCIA domain containing 1 | -1,719 | Cytoplasm | other |
| 29 | S100A4 | S100 calcium binding protein A4 | -1,718 | Cytoplasm | other |
| 30 | SPACA6 | sperm acrosome associated 6 | -1,712 | Other | other |
| 31 | ZNF738 | zinc finger protein 738 | -1,712 | Other | other |
| 32 | VSIR | V-set immunoregulatory receptor | -1,706 | Plasma Membrane | other |
| 33 | TOM1 | target of myb1 membrane trafficking protein | -1,696 | Cytoplasm | transporter |
| 34 | N4BP2 | NEDD4 binding protein 2 | -1,691 | Cytoplasm | enzyme |
| 35 | IP6K1 | inositol hexakisphosphate kinase 1 | -1,688 | Cytoplasm | kinase |
| 36 | PNPT1 | polyribonucleotide nucleotidyltransferase 1 | -1,675 | Cytoplasm | enzyme |
| 37 | DNAJC15 | DnaJ heat shock protein family (Hsp40) member C15 | -1,661 | Cytoplasm | other |
| 38 | LOC729603 | calcineurin like EF-hand protein 1 pseudogene | -1,657 | Other | other |
| 39 | PGAM1 | phosphoglycerate mutase 1 | -1,639 | Cytoplasm | phosphatase |
| 40 | ZNF486 | zinc finger protein 486 | -1,632 | Nucleus | other |
| 41 | BLZF1 | basic leucine zipper nuclear factor 1 | -1,629 | Cytoplasm | transcription regulator |
| 42 | DUXAP10 | double homeobox A pseudogene 10 | -1,626 | Other | other |
| 43 | ZNF682 | zinc finger protein 682 | -1,621 | Nucleus | other |
| 44 | MIR22HG | MIR22 host gene | -1,616 | Other | other |
| 45 | SULT1A1 | sulfotransferase family 1A member 1 | -1,614 | Cytoplasm | enzyme |
| 46 | ZBED3 | zinc finger BED-type containing 3 | -1,607 | Cytoplasm | other |
| 47 | GAS5 | growth arrest specific 5 (non-protein coding) | -1,602 | Other | other |
| 48 | NFKBIZ | NFKB inhibitor zeta | -1,601 | Nucleus | transcription regulator |
| 49 | PDXK | pyridoxal kinase | -1,599 | Cytoplasm | kinase |

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|----|--------------------|--|--------|---------------------|--------------------------------------|
| 50 | DMC1 | DNA meiotic recombinase 1 | -1,598 | Nucleus | enzyme |
| 51 | CSF2RA | colony stimulating factor 2 receptor alpha subunit | -1,596 | Plasma Membrane | transmembrane receptor |
| 52 | LCOR | ligand dependent nuclear receptor corepressor | -1,595 | Nucleus | transcription regulator |
| 53 | AKR1D1 | aldo-keto reductase family 1 member D1 | -1,592 | Cytoplasm | enzyme |
| 54 | IRF7 | interferon regulatory factor 7 | -1,584 | Nucleus | transcription regulator |
| 55 | ABRAXAS1 | abraxas 1, BRCA1 A complex subunit | -1,582 | Nucleus | other |
| 56 | HOXA10 | homeobox A10 | -1,578 | Nucleus | transcription regulator |
| 57 | LACTB | lactamase beta | -1,575 | Cytoplasm | peptidase |
| 58 | LARGE1 | LARGE xylosyl- and glucuronyltransferase 1 | -1,571 | Cytoplasm | enzyme |
| 59 | SLC10A3 | solute carrier family 10 member 3 | -1,567 | Plasma Membrane | transporter |
| 60 | RXRβ | retinoid X receptor beta | -1,566 | Nucleus | ligand-dependent nuclear receptor |
| 61 | OPA3 | OPA3, outer mitochondrial membrane lipid metabolism regulator | -1,559 | Cytoplasm | other |
| 62 | C21orf58 | chromosome 21 open reading frame 58 | -1,558 | Other | other |
| 63 | RHBDF1 | rhomboïd 5 homolog 1 | -1,555 | Cytoplasm | other |
| 64 | HLA-DMA | major histocompatibility complex, class II, DM alpha | -1,555 | Plasma Membrane | transmembrane receptor |
| 65 | TMEM150A | transmembrane protein 150A | -1,547 | Plasma Membrane | other |
| 66 | LOC100134868 | uncharacterized LOC100134868 | -1,546 | Other | other |
| 67 | TCEA2 | transcription elongation factor A2 | -1,544 | Nucleus | transcription regulator |
| 68 | LGALS7/LGALS7 B | galectin 7 | -1,539 | Extracellular Space | other |
| 69 | MCM8 | minichromosome maintenance 8 homologous recombination repair factor | -1,536 | Nucleus | enzyme |
| 70 | LRCH4 | leucine rich repeats and calponin homology domain containing 4 | -1,535 | Cytoplasm | transcription regulator |
| 71 | NARF | nuclear prelamin A recognition factor | -1,531 | Nucleus | enzyme |

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|---------------------------|------------|---|--------|---------------------|-------------------------|
| 72 | LINC01018 | long intergenic non-protein coding RNA 1018 | -1,53 | Other | other |
| 73 | TNFSF10 | TNF superfamily member 10 | -1,528 | Extracellular Space | cytokine |
| 74 | RARRES3 | retinoic acid receptor responder 3 | -1,527 | Cytoplasm | enzyme |
| 75 | SETD1A | SET domain containing 1A | -1,526 | Nucleus | ion channel |
| 76 | SMIM1 | small integral membrane protein 1 (Vel blood group) | -1,525 | Cytoplasm | other |
| 77 | RAB42P1 | RAB42, member RAS oncogene family, pseudogene 1 | -1,522 | Other | other |
| 78 | ENKD1 | enkurin domain containing 1 | -1,522 | Cytoplasm | other |
| 79 | SLC48A1 | solute carrier family 48 member 1 | -1,521 | Cytoplasm | transporter |
| 80 | CCDC24 | coiled-coil domain containing 24 | -1,521 | Other | other |
| 81 | REXO5 | RNA exonuclease 5 | -1,518 | Nucleus | enzyme |
| 82 | NENF | neudesin neurotrophic factor | -1,517 | Extracellular Space | growth factor |
| 83 | PSG4 | pregnancy specific beta-1-glycoprotein 4 | -1,516 | Extracellular Space | other |
| 84 | HAUS2 | HAUS augmin like complex subunit 2 | -1,512 | Cytoplasm | other |
| 85 | CREB1 | cAMP responsive element binding protein 1 | -1,51 | Nucleus | transcription regulator |
| 86 | DEXI | Dexi homolog | -1,509 | Other | other |
| 87 | DHRS11 | dehydrogenase/reductase 11 | -1,508 | Other | other |
| 88 | DNAJC28 | DnaJ heat shock protein family (Hsp40) member C28 | -1,507 | Other | other |
| 89 | SLC2A3P1 | solute carrier family 2 member 3 pseudogene 1 | -1,501 | Other | other |
| 90 | IFITM2 | interferon induced transmembrane protein 2 | -1,501 | Cytoplasm | other |
| Up-regulated genes | | | | | |
| 91 | ANKRD10 | ankyrin repeat domain 10 | 1,501 | Nucleus | transcription regulator |
| 92 | SH3KBP1 | SH3 domain containing kinase binding protein 1 | 1,501 | Cytoplasm | other |
| 93 | GALNT1 | polypeptide N-acetylgalactosaminyltransferase 1 | 1,504 | Cytoplasm | enzyme |
| 94 | DLGAP1-AS5 | DLGAP1 antisense RNA 5 | 1,504 | Other | other |
| 95 | NRP1 | neuropilin 1 | 1,505 | Plasma Membrane | transmembrane receptor |
| 96 | TNFRSF21 | TNF receptor superfamily member 21 | 1,505 | Plasma Membrane | transmembrane receptor |

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|-----|-----------|---|-------|---------------------|-------------------------|
| 97 | FLI1 | Fli-1 proto-oncogene, ETS transcription factor | 1,507 | Nucleus | transcription regulator |
| 98 | KLHL7 | kelch like family member 7 | 1,508 | Nucleus | other |
| 99 | FOXA2 | forkhead box A2 | 1,508 | Nucleus | transcription regulator |
| 100 | DDX21 | DExD-box helicase 21 | 1,508 | Nucleus | enzyme |
| 101 | LRRC58 | leucine rich repeat containing 58 | 1,509 | Other | other |
| 102 | ARHGAP22 | Rho GTPase activating protein 22 | 1,51 | Cytoplasm | other |
| 103 | CPSF2 | cleavage and polyadenylation specific factor 2 | 1,51 | Nucleus | other |
| 104 | MATR3 | matrin 3 | 1,511 | Nucleus | other |
| 105 | LINC00239 | long intergenic non-protein coding RNA 239 | 1,511 | Other | other |
| 106 | CREB5 | cAMP responsive element binding protein 5 | 1,512 | Nucleus | transcription regulator |
| 107 | SPP1 | secreted phosphoprotein 1 | 1,512 | Extracellular Space | cytokine |
| 108 | NUDT11 | nudix hydrolase 11 | 1,513 | Cytoplasm | phosphatase |
| 109 | KIF2A | kinesin family member 2A | 1,514 | Cytoplasm | other |
| 110 | RBM24 | RNA binding motif protein 24 | 1,514 | Other | other |
| 111 | NDUFAF5 | NADH:ubiquinone oxidoreductase complex assembly factor 5 | 1,514 | Cytoplasm | other |
| 112 | SUPT3H | SPT3 homolog, SAGA and STAGA complex component | 1,515 | Nucleus | transcription regulator |
| 113 | HMGN1P30 | high mobility group nucleosome binding domain 1 pseudogene 30 | 1,517 | Other | other |
| 114 | SARS | seryl-tRNA synthetase | 1,517 | Cytoplasm | enzyme |
| 115 | BRI3BP | BRI3 binding protein | 1,519 | Extracellular Space | other |
| 116 | ALDH1L2 | aldehyde dehydrogenase 1 family member L2 | 1,523 | Cytoplasm | enzyme |
| 117 | EPCAM | epithelial cell adhesion molecule | 1,523 | Plasma Membrane | other |
| 118 | TCEAL1 | transcription elongation factor A like 1 | 1,524 | Nucleus | transcription regulator |
| 119 | PPIAP80 | peptidylprolyl isomerase A pseudogene 80 | 1,524 | Other | other |
| 120 | FAM135A | family with sequence similarity 135 member A | 1,524 | Other | enzyme |
| 121 | PIM1 | Pim-1 proto-oncogene, serine/threonine kinase | 1,524 | Cytoplasm | kinase |
| 122 | BUB3 | BUB3, mitotic checkpoint protein | 1,525 | Nucleus | other |

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|-----|-----------|--|-------|---------------------|----------------------------|
| 123 | RAPH1 | Ras association (RalGDS/AF-6) and pleckstrin homology domains 1 | 1,525 | Plasma Membrane | other |
| 124 | WDR36 | WD repeat domain 36 | 1,525 | Extracellular Space | other |
| 125 | TARS | threonyl-tRNA synthetase | 1,526 | Nucleus | enzyme |
| 126 | CCNC | cyclin C | 1,526 | Nucleus | kinase |
| 127 | PPIAP35 | peptidylprolyl isomerase A pseudogene 35 | 1,526 | Other | other |
| 128 | NFXL1 | nuclear transcription factor, X-box binding like 1 | 1,527 | Nucleus | transcription regulator |
| 129 | ANLN | anillin actin binding protein | 1,527 | Cytoplasm | other |
| 130 | PDHX | pyruvate dehydrogenase complex component X | 1,528 | Cytoplasm | enzyme |
| 131 | ANXA2P1 | annexin A2 pseudogene 1 | 1,531 | Other | other |
| 132 | TMEM33 | transmembrane protein 33 | 1,531 | Cytoplasm | other |
| 133 | HNRNPUL1 | heterogeneous nuclear ribonucleoprotein U like 1 | 1,532 | Nucleus | other |
| 134 | PPT1 | palmitoyl-protein thioesterase 1 | 1,533 | Cytoplasm | enzyme |
| 135 | SQOR | sulfide quinone oxidoreductase | 1,534 | Cytoplasm | enzyme |
| 136 | KIAA2012 | KIAA2012 | 1,537 | Other | other |
| 137 | EGFR | epidermal growth factor receptor | 1,539 | Plasma Membrane | kinase |
| 138 | SEMA3C | semaphorin 3C | 1,54 | Extracellular Space | other |
| 139 | KLHL18 | kelch like family member 18 | 1,54 | Other | other |
| 140 | RIN2 | Ras and Rab interactor 2 | 1,54 | Cytoplasm | other |
| 141 | HDAC2 | histone deacetylase 2 | 1,541 | Nucleus | transcription regulator |
| 142 | ZNF680 | zinc finger protein 680 | 1,541 | Nucleus | other |
| 143 | RAB11FIP2 | RAB11 family interacting protein 2 | 1,543 | Cytoplasm | other |
| 144 | PYGL | glycogen phosphorylase L | 1,544 | Cytoplasm | enzyme |
| 145 | IGFBP4 | insulin like growth factor binding protein 4 | 1,545 | Extracellular Space | other |
| 146 | MIR100HG | mir-100-let-7a-2-mir-125b-1 cluster host gene | 1,547 | Other | other |
| 147 | CTNNAL1 | catenin alpha like 1 | 1,548 | Plasma Membrane | other |
| 148 | KLF13 | Kruppel like factor 13 | 1,548 | Nucleus | transcription regulator |
| 149 | LURAP1L | leucine rich adaptor protein 1 like | 1,548 | Other | other |
| 150 | RPL22 | ribosomal protein L22 | 1,551 | Nucleus | other |
| 151 | RAP1GDS1 | Rap1 GTPase-GDP dissociation stimulator 1 | 1,551 | Cytoplasm | other |

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|-----|-----------|--|-------|---------------------|-------------------------|
| 152 | ETS1 | ETS proto-oncogene 1, transcription factor | 1,555 | Nucleus | transcription regulator |
| 153 | GDF15 | growth differentiation factor 15 | 1,556 | Extracellular Space | growth factor |
| 154 | CEBPG | CCAAT/enhancer binding protein gamma | 1,556 | Nucleus | transcription regulator |
| 155 | UBASH3B | ubiquitin associated and SH3 domain containing B | 1,557 | Other | enzyme |
| 156 | ERO1A | endoplasmic reticulum oxidoreductase 1 alpha | 1,559 | Cytoplasm | enzyme |
| 157 | KDELC2 | KDEL motif containing 2 | 1,561 | Other | other |
| 158 | FAR2 | fatty acyl-CoA reductase 2 | 1,562 | Cytoplasm | enzyme |
| 159 | FERMT1 | fermitin family member 1 | 1,563 | Plasma Membrane | other |
| 160 | FRMD6 | FERM domain containing 6 | 1,565 | Cytoplasm | other |
| 161 | LAMA4 | laminin subunit alpha 4 | 1,567 | Extracellular Space | enzyme |
| 162 | SOCS2 | suppressor of cytokine signaling 2 | 1,568 | Cytoplasm | other |
| 163 | SEC23B | Sec23 homolog B, coat complex II component | 1,57 | Extracellular Space | transporter |
| 164 | PRRC2C | proline rich coiled-coil 2C | 1,571 | Cytoplasm | other |
| 165 | TFB2M | transcription factor B2, mitochondrial | 1,572 | Cytoplasm | enzyme |
| 166 | TCEA1 | transcription elongation factor A1 | 1,572 | Nucleus | transcription regulator |
| 167 | ESAM | endothelial cell adhesion molecule | 1,574 | Plasma Membrane | other |
| 168 | FAM86B1 | family with sequence similarity 86 member B1 | 1,575 | Other | other |
| 169 | TPST2 | tyrosylprotein sulfotransferase 2 | 1,575 | Cytoplasm | enzyme |
| 170 | KDSR | 3-ketodihydrosphingosine reductase | 1,577 | Plasma Membrane | enzyme |
| 171 | GNAI1 | G protein subunit alpha i1 | 1,578 | Plasma Membrane | enzyme |
| 172 | AKAP12 | A-kinase anchoring protein 12 | 1,578 | Cytoplasm | transporter |
| 173 | ELL2 | elongation factor for RNA polymerase II 2 | 1,58 | Nucleus | transcription regulator |
| 174 | HNRNPF | heterogeneous nuclear ribonucleoprotein F | 1,582 | Nucleus | other |
| 175 | CDV3 | CDV3 homolog | 1,584 | Cytoplasm | other |
| 176 | RPS27AP11 | ribosomal protein S27a pseudogene 11 | 1,585 | Other | other |
| 177 | USP15 | ubiquitin specific peptidase 15 | 1,589 | Cytoplasm | peptidase |
| 178 | AFAP1L1 | actin filament associated protein 1 like 1 | 1,591 | Other | other |
| 179 | STK39 | serine/threonine kinase 39 | 1,598 | Nucleus | kinase |

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|-----|--------------------------------|---|-------|---------------------|----------------------------|
| 180 | CALD1 | caldesmon 1 | 1,599 | Cytoplasm | other |
| 181 | MSH2 | mutS homolog 2 | 1,603 | Nucleus | enzyme |
| 182 | RTN4 | reticulon 4 | 1,603 | Cytoplasm | other |
| 183 | NPM1P28 | nucleophosmin 1 pseudogene 28 | 1,606 | Other | other |
| 184 | MYO19 | myosin XIX | 1,609 | Cytoplasm | enzyme |
| 185 | KANK1 | KN motif and ankyrin repeat domains 1 | 1,611 | Nucleus | transcription regulator |
| 186 | ANKRD20A4 (includes others) | ankyrin repeat domain 20 family member A4 | 1,612 | Plasma Membrane | other |
| 187 | PTGFRN | prostaglandin F2 receptor inhibitor | 1,613 | Plasma Membrane | other |
| 188 | FLNB | filamin B | 1,614 | Cytoplasm | other |
| 189 | CBFB | core-binding factor beta subunit | 1,616 | Nucleus | transcription regulator |
| 190 | IMPA1 | inositol monophosphatase 1 | 1,625 | Cytoplasm | phosphatase |
| 191 | MAMLD1 | mastermind like domain containing 1 | 1,627 | Nucleus | other |
| 192 | WLS | wntless Wnt ligand secretion mediator | 1,627 | Cytoplasm | other |
| 193 | ARMCX1 | armadillo repeat containing, X-linked 1 | 1,633 | Other | other |
| 194 | BZW1P2 | basic leucine zipper and W2 domains 1 pseudogene 2 | 1,636 | Other | other |
| 195 | LAMB3 | laminin subunit beta 3 | 1,64 | Extracellular Space | transporter |
| 196 | LOX | lysyl oxidase | 1,64 | Extracellular Space | enzyme |
| 197 | INTS13 | integrator complex subunit 13 | 1,644 | Cytoplasm | other |
| 198 | FABP5P2 | fatty acid binding protein 5 pseudogene 2 | 1,647 | Cytoplasm | other |
| 199 | XPO1 | exportin 1 | 1,652 | Nucleus | transporter |
| 200 | STEAP1B | STEAP family member 1B | 1,655 | Other | other |
| 201 | GARS | glycyl-tRNA synthetase | 1,656 | Cytoplasm | enzyme |
| 202 | FEZ2 | fasciculation and elongation protein zeta 2 | 1,661 | Cytoplasm | other |
| 203 | RNU6-15P | RNA, U6 small nuclear 15, pseudogene | 1,664 | Other | other |
| 204 | ARFGEF1 | ADP ribosylation factor guanine nucleotide exchange factor 1 | 1,668 | Cytoplasm | other |
| 205 | CMPK1 | cytidine/uridine monophosphate kinase 1 | 1,673 | Nucleus | kinase |
| 206 | INF2 | inverted formin, FH2 and WH2 domain containing | 1,677 | Cytoplasm | other |

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|-----|---------|--|-------|---------------------|-------------------------|
| 207 | ITGA2 | integrin subunit alpha 2 | 1,679 | Plasma Membrane | transmembrane receptor |
| 208 | RPL34 | ribosomal protein L34 | 1,679 | Cytoplasm | other |
| 209 | NACAP1 | nascent polypeptide associated complex alpha subunit pseudogene 1 | 1,685 | Other | other |
| 210 | KPNA3 | karyopherin subunit alpha 3 | 1,697 | Nucleus | transporter |
| 211 | MBTPS2 | membrane bound transcription factor peptidase, site 2 | 1,697 | Cytoplasm | peptidase |
| 212 | SLC30A9 | solute carrier family 30 member 9 | 1,699 | Nucleus | transporter |
| 213 | PEG10 | paternally expressed 10 | 1,704 | Nucleus | other |
| 214 | NT5DC1 | 5'-nucleotidase domain containing 1 | 1,704 | Other | other |
| 215 | TMEM156 | transmembrane protein 156 | 1,71 | Other | other |
| 216 | IFFO1 | intermediate filament family orphan 1 | 1,711 | Other | other |
| 217 | UQCRH | ubiquinol-cytochrome c reductase hinge protein | 1,716 | Cytoplasm | enzyme |
| 218 | WWP1P1 | WW domain containing E3 ubiquitin protein ligase 1 pseudogene 1 | 1,719 | Other | other |
| 219 | VIM | vimentin | 1,722 | Cytoplasm | other |
| 220 | KHDRBS3 | KH RNA binding domain containing, signal transduction associated 3 | 1,732 | Nucleus | other |
| 221 | DSC2 | desmocollin 2 | 1,738 | Plasma Membrane | other |
| 222 | POU2F1 | POU class 2 homeobox 1 | 1,747 | Nucleus | transcription regulator |
| 223 | KLF4 | Kruppel like factor 4 | 1,748 | Nucleus | transcription regulator |
| 224 | VSNL1 | visinin like 1 | 1,752 | Cytoplasm | other |
| 225 | XRN1 | 5'-3' exoribonuclease 1 | 1,762 | Cytoplasm | enzyme |
| 226 | FAM49B | family with sequence similarity 49 member B | 1,765 | Extracellular Space | other |
| 227 | SLCO1B3 | solute carrier organic anion transporter family member 1B3 | 1,773 | Plasma Membrane | transporter |
| 228 | LAMB1 | laminin subunit beta 1 | 1,777 | Extracellular Space | other |
| 229 | HPGD | 15-hydroxyprostaglandin dehydrogenase | 1,779 | Cytoplasm | enzyme |
| 230 | SNORD3D | small nucleolar RNA, C/D box 3D | 1,786 | Other | other |
| 231 | SRPX | sushi repeat containing protein, X-linked | 1,79 | Cytoplasm | other |

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|-----|----------|--|-------|---------------------|-------------|
| 232 | C1QTNF1 | C1q and TNF related 1 | 1,794 | Extracellular Space | other |
| 233 | LAT2 | linker for activation of T cells family member 2 | 1,799 | Plasma Membrane | other |
| 234 | TJP1 | tight junction protein 1 | 1,805 | Plasma Membrane | other |
| 235 | PLIN2 | perilipin 2 | 1,806 | Plasma Membrane | other |
| 236 | FABP5 | fatty acid binding protein 5 | 1,807 | Cytoplasm | transporter |
| 237 | PLEK2 | pleckstrin 2 | 1,821 | Plasma Membrane | other |
| 238 | ADAM19 | ADAM metallopeptidase domain 19 | 1,852 | Plasma Membrane | peptidase |
| 239 | DCLK1 | doublecortin like kinase 1 | 1,892 | Plasma Membrane | kinase |
| 240 | CARD11 | caspase recruitment domain family member 11 | 1,911 | Cytoplasm | kinase |
| 241 | HAS3 | hyaluronan synthase 3 | 1,925 | Plasma Membrane | enzyme |
| 242 | 4-Mar | membrane associated ring-CH-type finger 4 | 1,944 | Cytoplasm | enzyme |
| 243 | IGFBP3 | insulin like growth factor binding protein 3 | 1,958 | Extracellular Space | other |
| 244 | LAMC2 | laminin subunit gamma 2 | 1,974 | Extracellular Space | other |
| 245 | NPM1P42 | nucleophosmin 1 pseudogene 42 | 1,993 | Other | other |
| 246 | NT5E | 5'-nucleotidase ecto | 1,994 | Plasma Membrane | phosphatase |
| 247 | TGM2 | transglutaminase 2 | 2,017 | Cytoplasm | enzyme |
| 248 | DUSP5 | dual specificity phosphatase 5 | 2,02 | Nucleus | phosphatase |
| 249 | MTND5P10 | mitochondrially encoded NADH:ubiquinone oxidoreductase core subunit 5 pseudogene 10 | 2,097 | Other | other |
| 250 | MCFD2 | multiple coagulation factor deficiency 2 | 2,121 | Cytoplasm | other |
| 251 | STC1 | stanniocalcin 1 | 2,182 | Extracellular Space | kinase |
| 252 | SPAG9 | sperm associated antigen 9 | 2,56 | Cytoplasm | other |