

Supplementary Tables

Modes of action of a novel c-MYC inhibiting 1,2,4-oxadiazole derivative in leukemia and breast cancer cells

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Supplementary Table S1: Deregulated gene expression upon treatment of CCRF-CEM leukemia cells with the IC₅₀ concentration of ZINC15675948 for 24 h.

Symbol	Gene name	Fold change of expression
<i>PGK1</i>	Phosphoglycerate kinase 1	-894.824
<i>H2BC15</i>	H2B-clustered histone 15	-874.55
<i>NREP</i>	Neuronal regeneration-related protein	-782.619
<i>ATP5MF</i>	ATP synthase membrane subunit f	-774.632
<i>ATP5MC1</i>	ATP synthase membrane subunit c locus 1	-623.959
<i>ANXA2</i>	Annexin A2	-609.842
<i>GPI</i>	Glucose-6-phosphate isomerase	-585.909
<i>RPL36A</i>	Ribosomal protein L36a	-564.794
<i>H2AC14</i>	H2A-clustered histone 14	-558.444
<i>STARD7</i>	StAR-related lipid transfer domain containing 7	-554.385
<i>MBTPS1</i>	Membrane-bound transcription factor peptidase, site 1	-466.755
<i>MYC</i>	MYC proto-oncogene, bHLH transcription factor	-436.409
<i>AASDHPPT</i>	Aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase	-423.601
<i>SNU13</i>	Small nuclear ribonucleoprotein 13	-401.352
<i>DNAJC7</i>	DnaJ heat shock protein family (Hsp40) member C7	-391.026
<i>TIMM13</i>	Translocase of inner mitochondrial membrane 13	-390.194
<i>PSMD6</i>	Proteasome 26S subunit, non-ATPase 6	-380.012
<i>POLR3H</i>	RNA polymerase III subunit H	-378.485
<i>SKP2</i>	S-phase kinase-associated protein 2	-376.452
<i>ATP5ME</i>	ATP synthase membrane subunit e	-371.18
<i>PSMC4</i>	Proteasome 26S subunit, ATPase 4	-345.009
<i>UQCRH</i>	Ubiquinol-cytochrome c reductase hinge protein	-330.192
<i>SLIRP</i>	SRA stem loop-interacting RNA-binding protein	-330.171
<i>POLR2L</i>	RNA polymerase II, I and III subunit L	-315.839
<i>FH</i>	Fumarate hydratase	-315.692
<i>POLR2J</i>	RNA polymerase II subunit J	-312.908
<i>H3C1</i>	H3-clustered histone 1	-289.204
<i>SGTA</i>	Small glutamine rich tetratricopeptide repeat co-chaperone α	-287.344
<i>GGCT</i>	γ -Glutamylcyclotransferase	-277.642
<i>MED21</i>	Mediator complex subunit 21	-276.1
<i>TOMM5</i>	Translocase of outer mitochondrial membrane 5	-264.689
<i>RBM4</i>	RNA binding motif protein 4	-260.937
<i>ARPC4</i>	Actin-related protein 2/3 complex subunit 4	-256.843
<i>PRMT5</i>	Protein arginine methyltransferase 5	-255.082
<i>NOP10</i>	NOP10 ribonucleoprotein	-242.713
<i>IMP3</i>	IMP U3 small nucleolar ribonucleoprotein 3	-241.662
<i>HIGD1A</i>	HIG1 hypoxia-inducible domain family member 1A	-238.727
<i>MBD2</i>	Methyl-CpG binding domain protein 2	-236.407
<i>GLO1</i>	Glyoxalase I	-234.15
<i>PRPF3</i>	Pre-mRNA processing factor 3	-232.382
<i>MCRS1</i>	Microspherule protein 1	-228.699
<i>GIMAP6</i>	GTPase, IMAF family member 6	-227.072
<i>BCL7B</i>	BAF chromatin remodeling complex subunit BCL7B	-222.003
<i>TIAL1</i>	TIA1 cytotoxic granule-associated RNA binding protein-like 1	-216.678
<i>POLR2B</i>	RNA polymerase II subunit B	-212.393

<i>AKT2</i>	AKT serine/threonine kinase 2	-205.971
<i>SLC39A14</i>	Solute carrier family 39 member 14	-204.958
<i>TSR2</i>	TSR2 ribosome maturation factor	-204.401
<i>VPS26C</i>	VPS26 endosomal protein sorting factor C	-201.543
<i>SLC38A5</i>	Solute carrier family 38 member 5	-199.146
<i>CDC23</i>	Cell division cycle 23	-196.17
<i>SNAP29</i>	Synaptosome-associated protein 29	-194.53
<i>PRCC</i>	Proline-rich mitotic checkpoint control factor	-194.1
<i>TXNDC17</i>	Thioredoxin domain-containing 17	-193.404
<i>TFB2M</i>	Transcription factor B2, mitochondrial	-192.639
<i>ECD</i>	Ecdysoneless cell cycle regulator	-191.991
<i>ESS2</i>	Ess-2 splicing factor homolog	-190.523
<i>NOP14</i>	NOP14 nucleolar protein	-189.579
<i>FBL</i>	Fibrillarin	-185.399
<i>PRKCSH</i>	Protein kinase C substrate 80K-H	-178.751
<i>TIMM22</i>	Translocase of inner mitochondrial membrane 22	-174.109
<i>CLEC11A</i>	C-type lectin domain-containing 11A	-171.233
<i>BOP1</i>	BOP1 ribosomal biogenesis factor	-170.653
<i>SEN3</i>	SUMO specific peptidase 3	-162.169
<i>HMG3</i>	High mobility group nucleosomal binding domain 3	-158.5
<i>TARS1</i>	Threonyl-tRNA synthetase 1	-150.394
<i>PLOD1</i>	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 1	-150.187
<i>PRX</i>	Periaxin	-146.378
<i>RIPK1</i>	Receptor-interacting serine/threonine kinase 1	-145.21
<i>MIS12</i>	MIS12 kinetochore complex component	-144.341
<i>NAPA</i>	NSF attachment protein alpha	-140.725
<i>CCT6A</i>	Chaperonin containing TCP1 subunit 6A	-140.677
<i>SYPL1</i>	Synaptophysin-like 1	-140.605
<i>ABRAXAS2</i>	Abraxas 2, BRISC complex subunit	-140.3
<i>IKZF5</i>	IKAROS family zinc finger 5	-139.584
<i>PPP1R10</i>	Protein phosphatase 1 regulatory subunit 10	-137.914
<i>HSP90AB1</i>	Heat shock protein 90 alpha family class B member 1	-136.445
<i>CHKA</i>	Choline kinase α	-135.811
<i>CHRA1</i>	Chromatin accessibility complex subunit 1	-132.085
<i>NCBP1</i>	Nuclear cap binding protein subunit 1	-131.961
<i>IFT22</i>	Intraflagellar transport 22	-131.708
<i>USP5</i>	Ubiquitin-specific peptidase 5	-130.705
<i>ZNF672</i>	Zinc finger protein 672	-129.878
<i>BCL11A</i>	BAF chromatin remodeling complex subunit BCL11A	-127.513
<i>UBR7</i>	Ubiquitin protein ligase E3 component n-recogin 7	-125.692
<i>SPRING1</i>	SREBF pathway regulator in Golgi 1	-125.591
<i>ATG16L1</i>	Autophagy-related 16-like 1	-125.555
<i>MAPKAPK2</i>	MAPK-activated protein kinase 2	-124.144
<i>ST7</i>	Suppression of tumorigenicity 7	-121.841
<i>GPN2</i>	GPN-loop GTPase 2	-121.82
<i>TOE1</i>	Target of EGR1, exonuclease	-120.285
<i>BCL9</i>	BCL9 transcription coactivator	-119.233
<i>TSPAN7</i>	Tetraspanin 7	-116.64
<i>SLX1A-SULT1A3</i>	SLX1A-SULT1A3 readthrough (NMD candidate)	-115.898
<i>CHID1</i>	Chitinase domain-containing 1	-112.854

<i>ANKS6</i>	Ankyrin repeat and sterile α motif domain-containing 6	-112.21
<i>FOXO3</i>	Forkhead box O3	-111.784
<i>ELP6</i>	Elongator acetyltransferase complex subunit 6	-110.671
<i>DNM2</i>	Dynamin 2	-110.671
<i>CD151</i>	CD151 molecule (Raph blood group)	-110.061
<i>PMM2</i>	Phosphomannomutase 2	-108.248
<i>LOC107987373</i>	39S ribosomal protein L23, mitochondrial	-108.088
<i>TOR1AIP2</i>	Torsin 1A-interacting protein 2	-107.437
<i>SFXN5</i>	Sideroflexin 5	-106.865
<i>SLC35B4</i>	Solute carrier family 35 member B4	-106.326
<i>TMEM104</i>	Transmembrane protein 104	-106.045
<i>DHX15</i>	DEAH-box helicase 15	-101.834
<i>RNF185</i>	Ring finger protein 185	-101.731
<i>ZDHHC7</i>	Zinc finger DHHC-type palmitoyltransferase 7	-99.753
<i>AP3B1</i>	Adaptor-related protein complex 3 subunit β 1	-99.31
<i>PUS1</i>	Pseudouridine synthase 1	-99.052
<i>BRMS1</i>	BRMS1 transcriptional repressor and anoikis regulator	-97.909
<i>FBLN2</i>	Fibulin 2	-97.847
<i>ZNF317</i>	Zinc finger protein 317	-97.834
<i>TMEM185A</i>	Transmembrane protein 185A	-96.499
<i>POLR3K</i>	RNA polymerase III subunit K	-95.872
<i>HYOU1</i>	Hypoxia-upregulated 1	-95.303
<i>AFMID</i>	Arylformamidase	-95.271
<i>ABCF2</i>	ATP-binding cassette subfamily F member 2	-94.311
<i>RAI1</i>	Retinoic acid-induced 1	-93.834
<i>TNFRSF14-AS1</i>	TNFRSF14 antisense RNA 1	-93.019
<i>STK32C</i>	Serine/threonine kinase 32C	-91.713
<i>HS6ST1</i>	Heparan sulfate 6-O-sulfotransferase 1	-90.21
<i>AHDC1</i>	AT-hook DNA binding motif-containing 1	-89.51
<i>KIF3B</i>	Kinesin family member 3B	-87.485
<i>CSRNP2</i>	Cysteine- and serine-rich nuclear protein 2	-86.996
<i>ASF1B</i>	Anti-silencing function 1B histone chaperone	-85.769
<i>PRR3</i>	Proline-rich 3	-85.707
<i>SF3B3</i>	Splicing factor 3b subunit 3	-85.667
<i>ANAPC2</i>	Anaphase-promoting complex subunit 2	-85.008
<i>AMH</i>	Anti-Mullerian hormone	-84.671
<i>ARHGAP27</i>	Rho GTPase-activating protein 27	-84.02
<i>B4GALNT1</i>	β -1,4-N-acetyl-galactosaminyltransferase 1	-83.727
<i>ZFYVE27</i>	Zinc finger FYVE-type-containing 27	-83.455
<i>FBXO9</i>	F-box protein 9	-83.212
<i>ADCY3</i>	Adenylate cyclase 3	-82.795
<i>PTGDR2</i>	Prostaglandin D2 receptor 2	-81.399
<i>TXNL4A</i>	Thioredoxin like 4A	-81.187
<i>ELOF1</i>	Elongation factor 1 homolog	-79.966
<i>EXOSC10</i>	Exosome component 10	-76.678
<i>L3MBTL2</i>	L3MBTL histone methyl-lysine binding protein 2	-74.95
<i>SLC25A39</i>	Solute carrier family 25 member 39	-74.914
<i>IQSEC1</i>	IQ motif and Sec7 domain ArfGEF 1	-74.844
<i>CDKN2B</i>	Cyclin-dependent kinase inhibitor 2B	-72.444
<i>WRN</i>	WRN RecQ-like helicase	71.17

<i>NAPB</i>	NSF attachment protein β	71.336
<i>FAM8A1</i>	Family with sequence similarity 8 member A1	72.726
<i>LINC00869</i>	Long intergenic non-protein coding RNA 869	73.366
<i>EFCAB2</i>	EF-hand calcium-binding domain 2	73.697
<i>U2AF1L4</i>	U2 small nuclear RNA auxiliary factor 1-like 4	74.23
<i>CSGALNACT2</i>	Chondroitin sulfate N-acetylgalactosaminyltransferase 2	74.263
<i>MAN1A1</i>	Mannosidase α class 1A member 1	74.305
<i>LCN1</i>	Lipocalin 1	75.07
<i>CACFD1</i>	Calcium channel flower domain-containing 1	76.61
<i>CD38</i>	CD38 molecule	76.717
<i>ENGASE</i>	Endo- β -N-acetylglucosaminidase	78.287
<i>TMEM168</i>	Transmembrane protein 168	78.56
<i>LCMT1</i>	Leucine carboxyl methyltransferase 1	78.723
<i>NR6A1</i>	Nuclear receptor subfamily 6 group A member 1	79.988
<i>STN1</i>	STN1 subunit of CST complex	81.089
<i>ANKRD20A4P</i>	Ankyrin repeat domain 20 family member A3, pseudogene	81.324
<i>HEATR6</i>	HEAT repeat-containing 6	81.344
<i>TMEM30A</i>	Transmembrane protein 30A	81.702
<i>BORA</i>	BORA aurora kinase A activator	83.845
<i>SH3GLB1</i>	SH3 domain-containing GRB2-like, endophilin B1	84.86
<i>REEP5</i>	Receptor accessory protein 5	85.025
<i>HMGCL</i>	3-Hydroxy-3-methylglutaryl-CoA lyase	85.573
<i>TNFAIP8</i>	TNF α -induced protein 8	85.886
<i>SLC14A1</i>	Solute carrier family 14 member 1 (Kidd blood group)	85.971
<i>METTL22</i>	Methyltransferase like 22	85.982
<i>MARCKS</i>	Myristoylated alanine-rich protein kinase C substrate	86.112
<i>MACIR</i>	Macrophage immunometabolism regulator	86.192
<i>LRRC20</i>	Leucine-rich repeat-containing 20	87.422
<i>RAB44</i>	RAB44, member RAS oncogene family	89.843
<i>FANCF</i>	FA complementation group F	90.573
<i>SUPT20HL2</i>	SUPT20H-like 2	91.542
<i>PPP2R5A</i>	Protein phosphatase 2 regulatory subunit B' α	91.69
<i>DENND3</i>	DENN domain-containing 3	91.813
<i>DDX60</i>	DExD/H-box helicase 60	93.808
<i>STX16-NPEPL1</i>	STX16-NPEPL1 readthrough (NMD candidate)	93.87
<i>CXorf65</i>	Chromosome X open reading frame 65	94.625
<i>WDR27</i>	WD repeat domain 27	95.287
<i>MCUR1</i>	Mitochondrial calcium uniporter regulator 1	95.382
<i>IL10RB</i>	Interleukin 10 receptor subunit β	97.649
<i>HMG20A</i>	High mobility group 20A	97.722
<i>ABHD10</i>	Abhydrolase domain-containing 10, depalmitoylase	97.887
<i>CPSF2</i>	Cleavage- and polyadenylation-specific factor 2	98.271
<i>SUGP2</i>	SURP and G-patch domain-containing 2	98.564
<i>GCLM</i>	Glutamate-cysteine ligase modifier subunit	98.944
<i>BAZ1A</i>	Bromodomain adjacent to zinc finger domain 1A	99.427
<i>STIL</i>	STIL centriolar assembly protein	100.531
<i>PTP4A3</i>	Protein tyrosine phosphatase 4A3	101.141
<i>C16orf87</i>	Chromosome 16 open reading frame 87	101.263
<i>ABHD13</i>	Abhydrolase domain-containing 13	101.298
<i>NACA</i>	Nascent polypeptide-associated complex subunit α	101.743

<i>TENT2</i>	Terminal nucleotidyltransferase 2	103.956
<i>TMBIM4</i>	Transmembrane BAX inhibitor motif-containing 4	103.958
<i>TMEM87B</i>	Transmembrane protein 87B	104.158
<i>MED14</i>	Mediator complex subunit 14	105.199
<i>MLH1</i>	mutL homolog 1	105.427
<i>HCFC2</i>	Host cell factor C2	106.566
<i>RIMKLB</i>	Ribosomal modification protein rimK-like family member B	106.743
<i>SNX16</i>	Sorting nexin 16	106.933
<i>DPP8</i>	Dipeptidyl peptidase 8	107.017
<i>CYSLTR1</i>	Cysteinyl leukotriene receptor 1	107.203
<i>FOXN2</i>	Forkhead box N2	107.26
<i>RASA1</i>	RAS p21 protein activator 1	108.176
<i>DOCK11</i>	Dedicator of cytokinesis 11	109.51
<i>FAM193A</i>	Family with sequence similarity 193 member A	111.941
<i>EXPH5</i>	Exophilin 5	112.988
<i>HLCS</i>	Holocarboxylase synthetase	114.492
<i>SEC24A</i>	SEC24 homolog A, COPII coat complex component	114.939
<i>USP9X</i>	Ubiquitin specific peptidase 9 X-linked	115.068
<i>PRKCI</i>	Protein kinase C ι	117.58
<i>INTS12</i>	Integrator complex subunit 12	117.858
<i>KANK3</i>	KN motif and ankyrin repeat domains 3	118.255
<i>SPG11</i>	SPG11 vesicle trafficking-associated, spatacsin	118.942
<i>FAHD2A</i>	Fumarylacetoacetate hydrolase domain-containing 2A	119.981
<i>ABHD18</i>	Abhydrolase domain-containing 18	120.788
<i>LYRM7</i>	LYR motif-containing 7	122.308
<i>CCNT1</i>	Cyclin T1	124.051
<i>SUMO2</i>	Small ubiquitin-like modifier 2	124.082
<i>CENPC</i>	Centromere protein C	124.282
<i>TATDN3</i>	TatD DNase domain-containing 3	124.482
<i>AP1S2</i>	Adaptor-related protein complex 1 subunit σ 2	124.79
<i>GIT2</i>	GIT ArfGAP 2	125.219
<i>TPD52</i>	Tumor protein D52	125.326
<i>PPIE</i>	Peptidylprolyl isomerase E	127.464
<i>NLN</i>	Neurolysin	129.273
<i>ZNF816-ZNF321P</i>	ZNF816-ZNF321P readthrough	129.648
<i>EDEM3</i>	ER degradation enhancing α -mannosidase-like protein 3	130.569
<i>EIF5A2</i>	Eukaryotic translation initiation factor 5A2	131.707
<i>MSH5</i>	mutS homolog 5	132.54
<i>PDCD4</i>	Programmed cell death 4	133.13
<i>TRIM59</i>	Tripartite motif-containing 59	134.562
<i>UCHL3</i>	Ubiquitin C-terminal hydrolase L3	135.375
<i>SPINT2</i>	Serine peptidase inhibitor, Kunitz-type 2	138.421
<i>MIS18A</i>	MIS18 kinetochore protein A	138.69
<i>NCK1</i>	NCK adaptor protein 1	138.925
<i>TMEM106B</i>	Transmembrane protein 106B	139.132
<i>SDHAF4</i>	Succinate dehydrogenase complex assembly factor 4	140.279
<i>CAST</i>	Calpastatin	141.739
<i>NFATC2</i>	Nuclear factor of activated T cells 2	145.285
<i>RAB8B</i>	RAB8B, member RAS oncogene family	146.196

<i>ARHGAP5</i>	Rho GTPase activating protein 5	147.266
<i>LRRC8D</i>	Leucine-rich repeat-containing 8 VRAC subunit D	147.869
<i>MARCHF7</i>	Membrane associated ring CH-type finger 7	148.89
<i>MNAT1</i>	MNAT1 component of CDK activating kinase	149.97
<i>SAMD9</i>	Sterile α motif domain-containing 9	151.835
<i>EXOSC8</i>	Exosome component 8	152.27
<i>EIF3A</i>	Eukaryotic translation initiation factor 3 subunit A	153.724
<i>SPIN1</i>	Spindlin 1	153.82
<i>FHIP2A</i>	FHF complex subunit HOOK-interacting protein 2A	154.286
<i>NEK2</i>	NIMA-related kinase 2	157.207
<i>AIDA</i>	Axin interactor, dorsalization-associated	157.22
<i>MSGN1</i>	Mesogenin 1	159.898
<i>ZNF280D</i>	Zinc finger protein 280D	161.461
<i>MTFMT</i>	Mitochondrial methionyl-tRNA formyltransferase	162.111
<i>ARPC3</i>	Actin-related protein 2/3 complex subunit 3	163.55
<i>DDX50</i>	DExD-box helicase 50	165.167
<i>NPEPL1</i>	Aminopeptidase-like 1	165.386
<i>PICALM</i>	Phosphatidylinositol-binding clathrin assembly protein	165.577
<i>CD53</i>	CD53 molecule	168.629
<i>GINM1</i>	Glycoprotein integral membrane 1	169.79
<i>EPRS1</i>	Glutamyl-prolyl-tRNA synthetase 1	170.902
<i>ELMO2</i>	Engulfment and cell motility 2	171.041
<i>MOCS2</i>	Molybdenum cofactor synthesis 2	172.192
<i>LNPEP</i>	Leucyl and cystinyl aminopeptidase	174.1
<i>C5orf22</i>	Chromosome 5 open reading frame 22	174.924
<i>CLPX</i>	Caseinolytic mitochondrial matrix peptidase chaperone subunit X	176.265
<i>ZRANB2</i>	Zinc finger RANBP2-type-containing 2	177.924
<i>COG6</i>	Component of oligomeric Golgi complex 6	178.308
<i>RTN4</i>	Reticulon 4	185.407
<i>CNIH1</i>	Cornichon family AMPA receptor auxiliary protein 1	185.821
<i>COPB1</i>	COPI coat complex subunit β 1	191.712
<i>TARBP1</i>	TAR (HIV-1) RNA-binding protein 1	194.064
<i>LCE1C</i>	Late cornified envelope 1C	204.749
<i>TUBG2</i>	Tubulin γ 2	205.397
<i>TCAIM</i>	T cell activation inhibitor, mitochondrial	211.119
<i>DFFA</i>	DNA fragmentation factor subunit α	211.338
<i>SEL1L3</i>	SEL1L family member 3	213.03
<i>PHF20</i>	PHD finger protein 20	213.052
<i>OSGIN2</i>	Oxidative stress-induced growth inhibitor family member 2	213.386
<i>GOLGA8T</i>	Golgin A8 family member T	216.317
<i>FAM86B1</i>	Family with sequence similarity 86 member B1	219.993
<i>HCLS1</i>	Hematopoietic cell-specific Lyn substrate 1	220.254
<i>MDM4</i>	MDM4 regulator of p53	220.422
<i>IFRD1</i>	Interferon-related developmental regulator 1	224.495
<i>SH2D1A</i>	SH2 domain-containing 1A	225.236
<i>AIMP1</i>	Aminoacyl tRNA synthetase complex-interacting multifunctional protein 1	226.88
<i>CCNB1IP1</i>	Cyclin B1-interacting protein 1	235.862
<i>PIAS1</i>	Protein inhibitor of activated STAT 1	236.804

<i>CDKN3</i>	Cyclin-dependent kinase inhibitor 3	239.766
<i>ARRDC3</i>	Arrestin domain-containing 3	243.376
<i>BLZF1</i>	Basic leucine zipper nuclear factor 1	248.504
<i>ARFGAP3</i>	ADP ribosylation factor GTPase-activating protein 3	250.63
<i>HDGF</i>	Heparin-binding growth factor	262.287
<i>IBTK</i>	Inhibitor of Bruton tyrosine kinase	262.403
<i>RNPEP</i>	Arginyl aminopeptidase	264.07
<i>CHST11</i>	Carbohydrate sulfotransferase 11	266.767
<i>PGRMC2</i>	Progesterone receptor membrane component 2	268.332
<i>PRKRA</i>	Protein activator of interferon-induced protein kinase EIF2AK2	277.993
<i>TUT7</i>	Terminal uridylyl transferase 7	283.322
<i>TSG101</i>	Tumor susceptibility 101	285.937
<i>VIM</i>	Vimentin	290.791
<i>CCDC88A</i>	Coiled-coil domain-containing 88A	302.785
<i>IMPA1</i>	Inositol monophosphatase 1	309.746
<i>H2AZ2</i>	H2A.Z variant histone 2	315.471
<i>TMEM179B</i>	Transmembrane protein 179B	315.863
<i>IFI27L1</i>	Interferon α inducible protein 27-like 1	327.252
<i>ICA1</i>	Islet cell autoantigen 1	338.459
<i>TUBE1</i>	Tubulin ϵ 1	339.814
<i>CLDND1</i>	Claudin domain-containing 1	344.32
<i>UBA3</i>	Ubiquitin-like modifier-activating enzyme 3	361.52
<i>SNRPA1</i>	Small nuclear ribonucleoprotein polypeptide A'	401.878
<i>CD3D</i>	CD3d molecule	405.906
<i>THAP9-AS1</i>	THAP9 antisense RNA 1	414.691
<i>PTBP3</i>	Polypyrimidine tract binding protein 3	423.094
<i>USP11</i>	Ubiquitin-specific peptidase 11	445.03
<i>ZEB1</i>	Zinc finger E-box-binding homeobox 1	475.977
<i>TPT1</i>	Tumor protein, translationally-controlled 1	529.088
<i>SNX5</i>	Sorting nexin 5	558.026
<i>HSPA9</i>	Heat shock protein family A (Hsp70) member 9	561.504
<i>IDI1</i>	Isopentenyl-diphosphate delta isomerase 1	624.931
<i>SNHG32</i>	Small nucleolar RNA host gene 32	728.082
<i>ASNS</i>	Asparagine synthetase (glutamine-hydrolyzing)	864.481
<i>RAD21</i>	RAD21 cohesin complex component	978.419
<i>TMBIM6</i>	Transmembrane BAX inhibitor motif-containing 6	983.752
<i>HMGCS1</i>	3-hydroxy-3-methylglutaryl-CoA synthase 1	1187.922

Supplementary Table S2: Deregulated gene expression upon treatment of MDA-MB-231-pcDNA3 breast cancer cells with the IC₅₀ concentration of ZINC15675948 for 24 h.

Symbol	Gene name	Fold change of expression
<i>H4C3</i>	H4-clustered histone 3	-1097.46
<i>CALR</i>	Calreticulin	-786.152
<i>TOP2A</i>	DNA topoisomerase II α	-747.107
<i>H2AC13</i>	H2A-clustered histone 13	-707.585
<i>ARL6IP1</i>	ADP ribosylation factor-like GTPase 6-interacting protein 1	-648.657
<i>DHFR</i>	Dihydrofolate reductase	-545.609
<i>H2BC18</i>	H2B-clustered histone 18	-506.868
<i>UBC</i>	Ubiquitin C	-503.295
<i>SCD</i>	Stearoyl-CoA desaturase	-496.162
<i>MYH9</i>	Myosin heavy chain 9	-495.637
<i>LAMB3</i>	Laminin subunit β 3	-489.462
<i>H4C11</i>	H4-clustered histone 11	-468.663
<i>PLAU</i>	Plasminogen activator, urokinase	-434.661
<i>CSE1L</i>	Chromosome segregation 1-like	-425.176
<i>CBX5</i>	Chromobox 5	-420.682
<i>FAM83D</i>	Family with sequence similarity 83 member D	-410.028
<i>CTSB</i>	Cathepsin B	-398.833
<i>MCL1</i>	MCL1 apoptosis regulator, BCL2 family member	-388.41
<i>MORF4L1</i>	Mortality factor 4-like 1	-361.289
<i>DPY19L1</i>	Dpy-19-like C-mannosyltransferase 1	-359.667
<i>RAB31</i>	RAB31, member RAS oncogene family	-349.893
<i>ADGRF5</i>	Adhesion G protein-coupled receptor F5	-346.867
<i>TUBB4A</i>	Tubulin β 4A class IVa	-343.719
<i>SLC30A9</i>	Solute carrier family 30 member 9	-328.453
<i>DUT</i>	Deoxyuridine triphosphatase	-327.3
<i>FBL</i>	Fibrillarin	-325.331
<i>NUCKS1</i>	Nuclear casein kinase and cyclin-dependent kinase substrate 1	-324.544
<i>SAMHD1</i>	SAM and HD domain-containing deoxynucleoside triphosphate triphosphohydrolase 1	-310.46
<i>CPNE8</i>	Copine 8	-300.725
<i>LTA4H</i>	Leukotriene A4 hydrolase	-288.132
<i>HYOU1</i>	Hypoxia-upregulated 1	-264.062
<i>SPRY1</i>	Sprouty RTK signaling antagonist 1	-258.877
<i>DNMBP</i>	Dynamin-binding protein	-252.625
<i>PDIA6</i>	Protein disulfide isomerase family A member 6	-251.66
<i>SURF4</i>	Surfeit 4	-247.503
<i>MOB1A</i>	MOB kinase activator 1A	-246.226
<i>GALNT10</i>	Polypeptide N-acetylgalactosaminyltransferase 10	-234.075
<i>ABCD3</i>	ATP-binding cassette subfamily D member 3	-233.045
<i>PTBP1</i>	Polypyrimidine tract binding protein 1	-228.707
<i>SLCO4C1</i>	Solute carrier organic anion transporter family member 4C1	-224.322
<i>ARHGAP29</i>	Rho GTPase-activating protein 29	-220.073
<i>UACA</i>	Uveal autoantigen with coiled-coil domains and ankyrin repeats	-217.66

<i>YWHAB</i>	Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein β	-217.607
<i>STK17A</i>	Serine/threonine kinase 17a	-215.483
<i>PRPF8</i>	Pre-mRNA-processing factor 8	-210.087
<i>STAU2</i>	Staufen double-stranded RNA binding protein 2	-206.656
<i>WEE1</i>	WEE1 G2 checkpoint kinase	-199.398
<i>KNL1</i>	Kinetochore scaffold 1	-198.563
<i>CRIPT</i>	CXXC repeat containing interactor of PDZ3 domain	-197.78
<i>ATP5F1C</i>	ATP synthase F1 subunit γ	-188.806
<i>SRSF6</i>	Serine- and arginine-rich splicing factor 6	-184.144
<i>SORT1</i>	Sortilin 1	-182.36
<i>POGLUT3</i>	Protein O-glucosyltransferase 3	-180.049
<i>TMTC3</i>	Transmembrane O-mannosyltransferase targeting cadherins 3	-178.812
<i>CENPI</i>	Centromere protein I	-175.693
<i>TMEM156</i>	Transmembrane protein 156	-169.921
<i>FDPS</i>	Farnesyl diphosphate synthase	-168.581
<i>AKT2</i>	AKT serine/threonine kinase 2	-164.96
<i>GOLIM4</i>	Golgi integral membrane protein 4	-161.132
<i>DIAPH3</i>	Diaphanous-related formin 3	-158.056
<i>RFC3</i>	Replication factor C subunit 3	-156.621
<i>EDEM3</i>	ER degradation enhancing α -mannosidase-like protein 3	-156.105
<i>CHRA1</i>	Chromatin accessibility complex subunit 1	-155.619
<i>MAGI1</i>	Membrane-associated guanylate kinase, WW and PDZ domain-containing 1	-154.971
<i>POLR2K</i>	RNA polymerase II, I and III subunit K	-154.954
<i>AMIGO2</i>	Adhesion molecule with Ig like domain 2	-149.367
<i>TGOLN2</i>	Trans-Golgi network protein 2	-143.607
<i>LNPEP</i>	Leucyl and cystinyl aminopeptidase	-142.927
<i>PLOD2</i>	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2	-141.146
<i>PYGB</i>	Glycogen phosphorylase B	-138.181
<i>CD151</i>	CD151 molecule (Raph blood group)	-136.351
<i>MED31</i>	Mediator complex subunit 31	-135.623
<i>RAB10</i>	RAB10, member RAS oncogene family	-128.945
<i>ASPM</i>	Assembly factor for spindle microtubules	-128.634
<i>H2BC15</i>	H2B-clustered histone 15	-128.102
<i>TRIM25</i>	Tripartite motif-containing 25	-127.719
<i>ANKRD36C</i>	Ankyrin repeat domain 36C	-126.06
<i>GFPT2</i>	Glutamine-fructose-6-phosphate transaminase 2	-125.366
<i>SLC37A4</i>	Solute carrier family 37 member 4	-120.177
<i>DSG2</i>	Desmoglein 2	-118.543
<i>ABR</i>	ABR activator of RhoGEF and GTPase	-110.982
<i>LIN7C</i>	Lin-7 homolog C, crumbs cell polarity complex component	-108.677
<i>PARP14</i>	Poly(ADP-ribose) polymerase family member 14	-107.404
<i>FZD6</i>	Frizzled class receptor 6	-106.219
<i>PCGF3</i>	Polycomb group ring finger 3	-106.034
<i>HAP1</i>	Huntingtin-associated protein 1	-104.383
<i>CHRNA5</i>	Cholinergic receptor nicotinic α 5 subunit	-102.973
<i>SNX14</i>	Sorting nexin 14	-100.057
<i>GPD2</i>	Glycerol-3-phosphate dehydrogenase 2	-96.261
<i>PIK3R2</i>	Phosphoinositide-3-kinase regulatory subunit 2	-96.17

<i>MND1</i>	Meiotic nuclear divisions 1	-96.055
<i>MED16</i>	Mediator complex subunit 16	-95.558
<i>CASD1</i>	CAS1 domain-containing 1	-87.454
<i>RASSF7</i>	Ras association domain family member 7	-86.107
<i>DCAF7</i>	DDB1- and CUL4-associated factor 7	-85.957
<i>ENY2</i>	ENY2 transcription and export complex 2 subunit	-85.938
<i>SMC1A</i>	Structural maintenance of chromosomes 1A	-79.591
<i>CPNE7</i>	Copine 7	-78.336
<i>DNAJC4</i>	DnaJ heat shock protein family (Hsp40) member C4	-77.829
<i>TMEM185B</i>	Transmembrane protein 185B	-77.068
<i>EPHB2</i>	EPH receptor B2	-76.939
<i>FBXL17</i>	F-box and leucine-rich repeat protein 17	-76.847
<i>SPC25</i>	SPC25 component of NDC80 kinetochore complex	-76.43
<i>KAT2B</i>	Lysine acetyltransferase 2B	-76.299
<i>DDX58</i>	DExD/H-box helicase 58	-75.809
<i>MICU2</i>	Mitochondrial calcium uptake 2	-75.698
<i>DAP</i>	Death-associated protein	-74.386
<i>ASF1B</i>	Anti-silencing function 1B histone chaperone	-73.008
<i>HGSNAT</i>	Heparan- α -glucosaminide N-acetyltransferase	-71.105
<i>ZNF780B</i>	Zinc finger protein 780B	-70.864
<i>EXT2</i>	Exostosin glycosyltransferase 2	-70.778
<i>ZNF91</i>	Zinc finger protein 91	-70.133
<i>USP48</i>	Ubiquitin-specific peptidase 48	-69.95
<i>FKBP9</i>	FKBP prolyl isomerase 9	-69.34
<i>KLF2</i>	Kruppel-like factor 2	-68.74
<i>DDX17</i>	DEAD-box helicase 17	-68.192
<i>LY6E</i>	Lymphocyte antigen 6 family member E	-67.501
<i>SIPA1L1</i>	Signal-induced proliferation-associated 1-like 1	-67.432
<i>SLC25A1</i>	Solute carrier family 25 member 1	-67.186
<i>DHRS11</i>	Dehydrogenase/reductase 11	-67.075
<i>BAD</i>	BCL2-associated agonist of cell death	-63.458
<i>CCNF</i>	Cyclin F	-61.653
<i>CYP2R1</i>	Cytochrome P450 family 2 subfamily R member 1	-61.464
<i>PCNX3</i>	Pecanex 3	-60.807
<i>KIF15</i>	Kinesin family member 15	-60.387
<i>H3C3</i>	H3-clustered histone 3	-60.076
<i>SEN2</i>	SUMO-specific peptidase 2	-59.953
<i>BMPR1A</i>	Bone morphogenetic protein receptor type 1A	-59.627
<i>DSN1</i>	DSN1 component of MIS12 kinetochore complex	-59.349
<i>TST</i>	Thiosulfate sulfurtransferase	-59.232
<i>SURF1</i>	SURF1 cytochrome c oxidase assembly factor	-58.863
<i>MTA3</i>	Metastasis-associated 1 family member 3	-58.763
<i>APMAP</i>	Adipocyte plasma membrane-associated protein	-58.116
<i>B3GALT6</i>	β -1,3-galactosyltransferase 6	-55.707
<i>EIF5A2</i>	Eukaryotic translation initiation factor 5A2	55.297
<i>ELOF1</i>	Elongation factor 1 homolog	55.803
<i>FDX2</i>	Ferredoxin 2	55.901
<i>H2BC4</i>	H2B-clustered histone 4	57.311
<i>ZNF35</i>	Zinc finger protein 35	58.327
<i>TPM2</i>	Tropomyosin 2	58.432

<i>DDB2</i>	Damage-specific DNA binding protein 2	58.899
<i>TMEM39A</i>	Transmembrane protein 39A	59.07
<i>FNIP2</i>	Folliculin-interacting protein 2	59.609
<i>TRIP12</i>	Thyroid hormone receptor interactor 12	60.762
<i>LGR6</i>	Leucine-rich repeat containing G protein-coupled receptor 6	61.377
<i>TMEM170A</i>	Transmembrane protein 170A	61.808
<i>CDT1</i>	Chromatin licensing and DNA replication factor 1	62.022
<i>INPP5D</i>	Inositol polyphosphate-5-phosphatase D	62.074
<i>GRAMD1B</i>	GRAM domain-containing 1B	62.997
<i>SUPT6H</i>	SPT6 homolog, histone chaperone and transcription elongation factor	63.263
<i>EPS8L2</i>	EPS8-like 2	63.862
<i>NKIRAS1</i>	NFκB inhibitor-interacting Ras-like 1	64.995
<i>NEK3</i>	NIMA-related kinase 3	65.678
<i>TSPAN12</i>	Tetraspanin 12	65.83
<i>RMND1</i>	Required for meiotic nuclear division 1 homolog	65.836
<i>TENT4B</i>	Terminal nucleotidyltransferase 4B	66.663
<i>ZKSCAN8</i>	Zinc finger with KRAB and SCAN domains 8	67.119
<i>NABP1</i>	Nucleic acid-binding protein 1	67.159
<i>C9orf78</i>	Chromosome 9 open reading frame 78	67.299
<i>ZNF224</i>	Zinc finger protein 224	67.643
<i>TRMU</i>	tRNA mitochondrial 2-thiouridylase	67.75
<i>MFSD14A</i>	Major facilitator superfamily domain-containing 14A	68.092
<i>ELAPOR2</i>	Endosome-lysosome-associated apoptosis and autophagy regulator family member 2	68.205
<i>ZNF830</i>	Zinc finger protein 830	69.262
<i>ERN1</i>	Endoplasmic reticulum to nucleus signaling 1	69.698
<i>PRRG1</i>	Proline-rich and Gla domain 1	69.737
<i>MAGEA3/MAGEA6</i>	MAGE family member A6	70.045
<i>POLR1E</i>	RNA polymerase I subunit E	70.147
<i>THUMPD3</i>	THUMP domain-containing 3	70.912
<i>METTL26</i>	Methyltransferase-like 26	71.309
<i>RNF138</i>	Ring finger protein 138	71.744
<i>ATG14</i>	Autophagy-related 14	74.14
<i>FTSJ1</i>	FtsJ RNA 2'-O-methyltransferase 1	75.094
<i>CBFA2T2</i>	CBFA2/RUNX1 partner transcriptional co-repressor 2	75.199
<i>VCPKMT</i>	Valosin-containing protein lysine methyltransferase	76.015
<i>WDR70</i>	WD repeat domain 70	76.199
<i>RPIA</i>	Ribose 5-phosphate isomerase A	77.126
<i>GAL</i>	Galanin and GMAP prepropeptide	77.201
<i>AADAT</i>	Amino adipate aminotransferase	78.975
<i>NR6A1</i>	Nuclear receptor subfamily 6 group A member 1	80.068
<i>CLK4</i>	CDC-like kinase 4	80.353
<i>CLNS1A</i>	Chloride nucleotide-sensitive channel 1A	80.517
<i>HSBP1L1</i>	Heat shock factor binding protein 1-like 1	81.27
<i>POLR1H</i>	RNA polymerase I subunit H	81.528
<i>ATXN7</i>	Ataxin 7	82.02
<i>POLR1D</i>	RNA polymerase I and III subunit D	84.109
<i>FEM1C</i>	Fem-1 homolog C	85.033

<i>GSTM1</i>	Glutathione S-transferase μ 1	85.645
<i>XPNPEP3</i>	X-Prolyl aminopeptidase 3	86.14
<i>ZBTB43</i>	Zinc finger and BTB domain-containing 43	86.175
<i>RPL26L1</i>	Ribosomal protein L26-like 1	86.38
<i>SREK1IP1</i>	SREK1-interacting protein 1	86.863
<i>RBPMS</i>	RNA-binding protein, mRNA-processing factor	86.998
<i>CCT6A</i>	Chaperonin-containing TCP1 subunit 6A	87.047
<i>TM4SF19</i>	Transmembrane 4 L six family member 19	87.855
<i>COIL</i>	Coilin	89.488
<i>NR3C1</i>	Nuclear receptor subfamily 3 group C member 1	89.823
<i>RRN3</i>	RRN3 homolog, RNA polymerase I transcription factor	89.962
<i>MDK</i>	Midkine	91.067
<i>POU2F1</i>	POU class 2 homeobox 1	92.917
<i>ZKSCAN1</i>	Zinc finger with KRAB and SCAN domains 1	93.135
<i>SHOC2</i>	SHOC2 leucine-rich repeat scaffold protein	93.549
<i>YIPF5</i>	Yip1 domain family member 5	93.577
<i>STX3</i>	Syntaxin 3	94.238
<i>SLU7</i>	SLU7 homolog, splicing factor	94.321
<i>MBNL2</i>	Muscleblind-like splicing regulator 2	94.64
<i>DSP</i>	Desmoplakin	94.944
<i>RNF8</i>	Ring finger protein 8	95.095
<i>CEP95</i>	Centrosomal protein 95	95.906
<i>UGCG</i>	UDP-glucose ceramide glucosyltransferase	96.844
<i>VAMP1</i>	Vesicle-associated membrane protein 1	97.016
<i>RNF7</i>	Ring finger protein 7	98.758
<i>INSYN2B</i>	Inhibitory synaptic factor family member 2B	98.804
<i>KIAA1191</i>	KIAA1191	99.37
<i>THG1L</i>	tRNA-histidine guanylyltransferase 1-like	99.45
<i>KRTAP4-8</i>	Keratin-associated protein 4-8	100.498
<i>RBBP6</i>	RB-binding protein 6, ubiquitin ligase	102.24
<i>ZKSCAN5</i>	Zinc finger with KRAB and SCAN domains 5	102.778
<i>ING1</i>	Inhibitor of growth family member 1	105.506
<i>AOX1</i>	Aldehyde oxidase 1	105.814
<i>IFIT3</i>	Interferon-induced protein with tetratricopeptide repeats 3	106.53
<i>NBPF10</i>	NBPF member 19	108.136
<i>MAP3K20</i>	Mitogen-activated protein kinase kinase kinase 20	108.245
<i>PAXX</i>	PAXX non-homologous end joining factor	108.657
<i>BRAP</i>	BRCA1-associated protein	109.161
<i>HTATIP2</i>	HIV-1 Tat interactive protein 2	109.472
<i>ETV3</i>	ETS variant transcription factor 3	109.553
<i>LIMCH1</i>	LIM and calponin homology domains 1	110.228
<i>SFSWAP</i>	Splicing factor SWAP	110.251
<i>FHL2</i>	Four-and-a-half LIM domains 2	111.968
<i>CCDC80</i>	Coiled-coil domain-containing 80	112.731
<i>F3</i>	Coagulation factor III, tissue factor	114.255
<i>BLZF1</i>	Basic leucine zipper nuclear factor 1	114.674
<i>MTHFD1L</i>	Methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1-like	114.975
<i>IGFBP3</i>	Insulin like growth factor binding protein 3	116.779
<i>RIT1</i>	Ras-like without CAAX 1	116.814

<i>MED13L</i>	Mediator complex subunit 13L	117.062
<i>ASS1</i>	Argininosuccinate synthase 1	119.328
<i>HEXIM1</i>	HEXIM P-TEFb complex subunit 1	122.322
<i>CCBE1</i>	Collagen- and calcium-binding EGF domains 1	122.652
<i>S100A3</i>	S100 calcium-binding protein A3	125.082
<i>MMP1</i>	Matrix metalloproteinase 1	127.808
<i>EIF1B</i>	Eukaryotic translation initiation factor 1B	128.681
<i>PYCR2</i>	Pyrroline-5-carboxylate reductase 2	129.312
<i>STAG3L2/STAG3L3</i>	Stromal antigen 3-like 3 (pseudogene)	129.46
<i>PCBD2</i>	Pterin-4 α -carbinolamine dehydratase 2	129.723
<i>RGS10</i>	Regulator of G protein signaling 10	130.062
<i>ZNF143</i>	Zinc finger protein 143	130.254
<i>ARFGEF2</i>	ADP ribosylation factor guanine nucleotide exchange factor 2	132.626
<i>ABL2</i>	ABL proto-oncogene 2, non-receptor tyrosine kinase	134.526
<i>RBM18</i>	RNA binding motif protein 18	136.216
<i>SDC4</i>	Syndecan 4	140.876
<i>ALYREF</i>	Aly/REF export factor	140.923
<i>ACTN1</i>	Actinin α 1	142.456
<i>ENOPH1</i>	Enolase-phosphatase 1	143.155
<i>SLC35F2</i>	Solute carrier family 35 member F2	144.051
<i>DCUN1D5</i>	Defective in cullin neddylation 1 domain-containing 5	144.226
<i>PAQR3</i>	Progestin and adipoQ receptor family member 3	146.382
<i>UCK2</i>	Uridine cytidine kinase 2	148.743
<i>ASNS</i>	Asparagine synthetase (glutamine-hydrolyzing)	148.99
<i>TIMM13</i>	Translocase of inner mitochondrial membrane 13	152.287
<i>RNF6</i>	Ring finger protein 6	152.845
<i>LCORL</i>	Ligand dependent nuclear receptor corepressor-like	154.168
<i>VAT1</i>	Vesicle amine transport 1	154.932
<i>NPIP15</i>	Nuclear pore complex-interacting protein family member B8	155.586
<i>S100A4</i>	S100 calcium binding protein A4	158.592
<i>SMNDC1</i>	Survival motor neuron domain-containing 1	160.593
<i>KLHL15</i>	Kelch-like family member 15	160.805
<i>ARID3A</i>	AT-rich interaction domain 3A	162.426
<i>WSB1</i>	WD repeat and SOCS box-containing 1	163.953
<i>GPBP1L1</i>	GC-rich promoter binding protein 1-like 1	165.591
<i>CPEB4</i>	Cytoplasmic polyadenylation element binding protein 4	168.095
<i>SRSF9</i>	Serine- and arginine-rich splicing factor 9	168.402
<i>CASP4</i>	Caspase 4	168.811
<i>UFC1</i>	Ubiquitin-fold modifier-conjugating enzyme 1	172.373
<i>PPP4R3B</i>	Protein phosphatase 4 regulatory subunit 3B	173.181
<i>ELL2</i>	Elongation factor for RNA polymerase II 2	173.38
<i>GATA6</i>	GATA-binding protein 6	175.096
<i>SYT1</i>	Synaptotagmin 1	176.42
<i>EIF3G</i>	Eukaryotic translation initiation factor 3 subunit G	176.556
<i>APOLD1</i>	Apolipoprotein L domain-containing 1	176.767
<i>KIDINS220</i>	Kinase D-interacting substrate 220	179.522
<i>GDF15</i>	Growth differentiation factor 15	181.344
<i>ARF1</i>	ADP ribosylation factor 1	184.859
<i>ZFAND3</i>	Zinc finger AN1-type-containing 3	188.983
<i>EXOC2</i>	Exocyst complex component 2	192.435

<i>SARS1</i>	Seryl-tRNA synthetase 1	194.348
<i>LYAR</i>	Ly1 antibody reactive	195.187
<i>PRMT1</i>	Protein arginine methyltransferase 1	202.335
<i>RBM14-RBM4</i>	RBM14-RBM4 readthrough	212.244
<i>YBX1</i>	Y-box binding protein 1	212.354
<i>H3-3A/H3-3B</i>	H3.3 histone A	217.032
<i>SRGN</i>	Serglycin	222.049
<i>GLRX5</i>	Glutaredoxin 5	222.452
<i>SNHG32</i>	Small nucleolar RNA host gene 32	225.827
<i>TGIF2-RAB5IF</i>	TGIF2-RAB5IF readthrough	227.207
<i>NKTR</i>	Natural killer cell-triggering receptor	243.194
<i>SNRPA1</i>	Small nuclear ribonucleoprotein polypeptide A'	253.328
<i>SLIRP</i>	SRA stem loop-interacting RNA-binding protein	259.866
<i>EIF3D</i>	Eukaryotic translation initiation factor 3 subunit D	278.56
<i>KCTD5</i>	Potassium channel tetramerization domain-containing 5	280.39
<i>GARS1</i>	Glycyl-tRNA synthetase 1	281.754
<i>MDH2</i>	Malate dehydrogenase 2	287.648
<i>NIFK</i>	Nucleolar protein interacting with the FHA domain of MKI67	296.404
<i>AURKA</i>	Aurora kinase A	300.635
<i>YBX3</i>	Y-box binding protein 3	318.446
<i>EIF3H</i>	Eukaryotic translation initiation factor 3 subunit H	350.246
<i>SNAPC1</i>	Small nuclear RNA-activating complex polypeptide 1	356.776
<i>RPL18</i>	Ribosomal protein L18	402.44
<i>UBR4</i>	Ubiquitin protein ligase E3 component n-recognin 4	407.523
<i>SQSTM1</i>	Sequestosome 1	422.613
<i>NIP7</i>	Nucleolar pre-rRNA-processing protein NIP7	474.22
<i>CITED2</i>	Cbp/p300 interacting transactivator with Glu/Asp-rich carboxy-terminal domain 2	566.464
<i>HSPD1</i>	Heat shock protein family D (Hsp60) member 1	600.082