Supplementary Table S3. Complete mRNA sequences of 224 human autophagy genes.

>NM_017749.3 Homo sapiens autophagy and beclin 1 regulator 1 (AMBRA1), transcript variant 2, mRNA

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>NM_145343.3 Homo sapiens apolipoprotein L1 (APOL1), transcript variant 2, mRNA

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ACTCATCAA

>NM_001197325.2 Homo sapiens aryl hydrocarbon receptor nuclear translocator (ARNT), transcript variant 4, mRNA

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>NM_000487.6 Homo sapiens arylsulfatase A (ARSA), transcript variant 1, mRNA

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>NM_000046.5 Homo sapiens arylsulfatase B (ARSB), transcript variant 1, mRNA

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>NM_001675.4 Homo sapiens activating transcription factor 4 (ATF4), transcript variant 1, mRNA

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>NM_007348.4 Homo sapiens activating transcription factor 6 (ATF6), mRNA

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>NM_001131028.2 Homo sapiens autophagy related 10 (ATG10), transcript variant 3, mRNA

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>NM_021934.5 Homo sapiens autophagy related 101 (ATG101), transcript variant 1, mRNA

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>NM_004707.4 Homo sapiens autophagy related 12 (ATG12), transcript variant 1, mRNA

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>NM_014741.5 Homo sapiens autophagy related 13 (ATG13), transcript variant 2, mRNA

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>NM_014924.5 Homo sapiens autophagy related 14 (ATG14), mRNA

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>NM_017974.4 Homo sapiens autophagy related 16 like 1 (ATG16L1), transcript variant 2, mRNA

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>NM_033388.2 Homo sapiens autophagy related 16 like 2 (ATG16L2), transcript variant 1, mRNA

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>NM_015104.3 Homo sapiens autophagy related 2A (ATG2A), transcript variant 1, mRNA

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>NM_018036.7 Homo sapiens autophagy related 2B (ATG2B), mRNA

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TA

>NM_022488.5 Homo sapiens autophagy related 3 (ATG3), transcript variant 1, mRNA

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>NM_052936.5 Homo sapiens autophagy related 4A cysteine peptidase (ATG4A), transcript variant 1, mRNA

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>NM_013325.5 Homo sapiens autophagy related 4B cysteine peptidase (ATG4B), transcript variant 1, mRNA

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CCCCTGCGCCTGGGGCTCACGGACATCAACGAGGCCTACGTGGAGACGCTGAAGCACTGCTTCATGATGC

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>NM_032852.4 Homo sapiens autophagy related 4C cysteine peptidase (ATG4C), transcript variant 1, mRNA

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>NM_032885.6 Homo sapiens autophagy related 4D cysteine peptidase (ATG4D), transcript variant 1, mRNA

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TGA

>NM_004849.4 Homo sapiens autophagy related 5 (ATG5), transcript variant 1, mRNA

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>NM_004849.4 Homo sapiens autophagy related 5 (ATG5), transcript variant 1, mRNA

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>NM_006395.3 Homo sapiens autophagy related 7 (ATG7), transcript variant 1, mRNA

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>NM_024085.5 Homo sapiens autophagy related 9A (ATG9A), transcript variant 2, mRNA

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>NM_173681.5 Homo sapiens autophagy related 9B (ATG9B), transcript variant 1, mRNA

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>NM_004044.7 Homo sapiens 5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase (ATIC), mRNA

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>NM_004323.6 Homo sapiens BAG cochaperone 1 (BAG1), transcript variant 1, mRNA

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>NM_004281.4 Homo sapiens BAG cochaperone 3 (BAG3), mRNA

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>NM_001188.4 Homo sapiens BCL2 antagonist/killer 1 (BAK1), mRNA

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>NM_138763.4 Homo sapiens BCL2 associated X, apoptosis regulator (BAX), transcript variant delta, mRNA

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>NM_000633.3 Homo sapiens BCL2 apoptosis regulator (BCL2), transcript variant alpha, mRNA

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>NM_138578.3 Homo sapiens BCL2 like 1 (BCL2L1), transcript variant 1, mRNA

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>NM_003766.5 Homo sapiens beclin 1 (BECN1), transcript variant 1, mRNA

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>NM_001290693.1 Homo sapiens beclin 2 (BECN2), mRNA

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>NM_197966.3 Homo sapiens BH3 interacting domain death agonist (BID), transcript variant 1, mRNA

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>NM_016252.4 Homo sapiens baculoviral IAP repeat containing 6 (BIRC6), transcript variant 1, mRNA

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>NM_004052.4 Homo sapiens BCL2 interacting protein 3 (BNIP3), mRNA

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GA

>NM_004331.3 Homo sapiens BCL2 interacting protein 3 like (BNIP3L), transcript variant 1, mRNA

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>NM_005831.5 Homo sapiens calcium binding and coiled-coil domain 2 (CALCOCO2), transcript variant 3, mRNA

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>NM_172226.3 Homo sapiens calcium/calmodulin dependent protein kinase kinase 2 (CAMKK2), transcript variant 7, mRNA

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>NM_001024649.2 Homo sapiens calnexin (CANX), transcript variant 2, mRNA

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>NM_001198868.2 Homo sapiens calpain 1 (CAPN1), transcript variant 1, mRNA

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>NM_023083.4 Homo sapiens calpain 10 (CAPN10), transcript variant 1, mRNA

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>NM_001748.5 Homo sapiens calpain 2 (CAPN2), transcript variant 1, mRNA

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ATCCAA

>NM_001003962.3 Homo sapiens calpain small subunit 1 (CAPNS1), transcript variant 2, mRNA

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>NM_033292.4 Homo sapiens caspase 1 (CASP1), transcript variant alpha, mRNA

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>NM_004346.4 Homo sapiens caspase 3 (CASP3), transcript variant 1, mRNA

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CCTGTAACTTTTGTAAATACACATAGCATGTAATGGTATCTTAAAGTGTGTTTCTATGTGACAATTTTGT

ACAAATTTGTTATTTTCCATTTTTATTTCAAAATATACATTCAAACTTAAAATTA

>NM_001225.4 Homo sapiens caspase 4 (CASP4), transcript variant alpha, mRNA

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>NM_001228.4 Homo sapiens caspase 8 (CASP8), transcript variant 1, mRNA

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>NM_002982.4 Homo sapiens C-C motif chemokine ligand 2 (CCL2), mRNA

GAGAGGCTGAGACTAACCCAGAAACATCCAATTCTCAAACTGAAGCTCGCACTCTCGCCTCCAGCATGAA

AGTCTCTGCCGCCCTTCTGTGCCTGCTGCTCATAGCAGCCACCTTCATTCCCCAAGGGCTCGCTCAGCCA

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GACTTGGGGAAATTGCTTTTCCTCTTGAACCACAGTTCTACCCCTGGGATGTTTTGAGGGTCTTTGCAAG

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TTTGTAACTATTACACCAAATAAATATATTTTTGTACAAAA

>NM_001123041.3 Homo sapiens C-C motif chemokine receptor 2 (CCR2), transcript variant A, mRNA

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GAAATGTAAATACTGTTTTTAACAACTATGATTTGGAAAATAAATCAATGCTATAACTATGTTGATAAAA

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>NM_172361.3 Homo sapiens CD46 molecule (CD46), transcript variant l, mRNA

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>NM_078467.3 Homo sapiens cyclin dependent kinase inhibitor 1A (CDKN1A), transcript variant 2, mRNA

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>NM_004064.5 Homo sapiens cyclin dependent kinase inhibitor 1B (CDKN1B), mRNA

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>NM_000077.5 Homo sapiens cyclin dependent kinase inhibitor 2A (CDKN2A), transcript variant 1, mRNA

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>NM_003879.7 Homo sapiens CASP8 and FADD like apoptosis regulator (CFLAR), transcript variant 1, mRNA

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>NM_014043.4 Homo sapiens charged multivesicular body protein 2B (CHMP2B), transcript variant 1, mRNA

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>NM_176812.5 Homo sapiens charged multivesicular body protein 4B (CHMP4B), mRNA

GGAGAGGCCTGCGGCGGCAGGGAGCGGCGGGACTGGGAGCGGGCGCCGGAGCCGACCCGAGCCGAGCCGA

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TGTTCGGGGCTGGAGGGGGTAAGGCCGGCAAGGGCGGCCCGACCCCCCAGGAGGCCATCCAGCGGCTGCG

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>NM_000086.2 Homo sapiens CLN3 lysosomal/endosomal transmembrane protein, battenin (CLN3), transcript variant 2, mRNA

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CCTCAGGGTCCCTGCTGTAGACGGGGCGGGGGAGAGTACGATGGGTGGGGCGTGGTGGGTCGTAGGGCGC

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>NM_147780.4 Homo sapiens cathepsin B (CTSB), transcript variant 2, mRNA

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>NM_001909.5 Homo sapiens cathepsin D (CTSD), mRNA

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CCTTCCTCTGCAGCTGACCTCTGTTGTCCTCCCCTTGGGCGGCTGAGAGCCCCAGCTGACATGGAAATAC

AGTTGTTGGCCTCCGGCCTCCCCTC

>NM_001912.5 Homo sapiens cathepsin L (CTSL), transcript variant 1, mRNA

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>NM_002996.6 Homo sapiens C-X3-C motif chemokine ligand 1 (CX3CL1), transcript variant 1, mRNA

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TGTAGCTTTGCTCATCCACTATCAACAGAACCAGGCATCATGCGGCAAACGCGCAATCATCTTGGAGACG

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AAGCAGGACATGGACAAGGATGATCTAGGAAGACTTTGGAAAGAGTAGGAAGACTTTGGAAAGACTTTTC

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>NM_001008540.2 Homo sapiens C-X-C motif chemokine receptor 4 (CXCR4), transcript variant 1, mRNA

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>NM_004938.4 Homo sapiens death associated protein kinase 1 (DAPK1), transcript variant 1, mRNA

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>NM_014326.5 Homo sapiens death associated protein kinase 2 (DAPK2), transcript variant 1, mRNA

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>NM_004083.6 Homo sapiens DNA damage inducible transcript 3 (DDIT3), transcript variant 5, mRNA

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>NM_004675.5 Homo sapiens DIRAS family GTPase 3 (DIRAS3), mRNA

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CCTGCATGCAA

>NM_182643.3 Homo sapiens DLC1 Rho GTPase activating protein (DLC1), transcript variant 1, mRNA

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>NM_006145.3 Homo sapiens DnaJ heat shock protein family (Hsp40) member B1 (DNAJB1), transcript variant 1, mRNA

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>NM_012328.3 Homo sapiens DnaJ heat shock protein family (Hsp40) member B9 (DNAJB9), mRNA

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>NM_018370.3 Homo sapiens DNA damage regulated autophagy modulator 1 (DRAM1), mRNA

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>NM_014674.3 Homo sapiens ER degradation enhancing alpha-mannosidase like protein 1 (EDEM1), mRNA

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>NM_001961.4 Homo sapiens eukaryotic translation elongation factor 2 (EEF2), mRNA

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>NM_013302.5 Homo sapiens eukaryotic elongation factor 2 kinase (EEF2K), mRNA

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>NM_005228.5 Homo sapiens epidermal growth factor receptor (EGFR), transcript variant 1, mRNA

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>NM_004094.5 Homo sapiens eukaryotic translation initiation factor 2 subunit alpha (EIF2S1), mRNA

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>NM_004095.4 Homo sapiens eukaryotic translation initiation factor 4E binding protein 1 (EIF4EBP1), mRNA

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>NM_182917.4 Homo sapiens eukaryotic translation initiation factor 4 gamma 1 (EIF4G1), transcript variant 1, mRNA

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>NM_004448.4 Homo sapiens erb-b2 receptor tyrosine kinase 2 (ERBB2), transcript variant 1, mRNA

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>NM_001433.5 Homo sapiens endoplasmic reticulum to nucleus signaling 1 (ERN1), mRNA

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>NM_014584.3 Homo sapiens endoplasmic reticulum oxidoreductase 1 alpha (ERO1A), transcript variant 2, mRNA

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>NM_003824.4 Homo sapiens Fas associated via death domain (FADD), mRNA

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>NM_000043.6 Homo sapiens Fas cell surface death receptor (FAS), transcript variant 1, mRNA

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>NM_000801.5 Homo sapiens FKBP prolyl isomerase 1A (FKBP1A), transcript variant 1, mRNA

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>NM_004116.5 Homo sapiens FKBP prolyl isomerase 1B (FKBP1B), transcript variant 1, mRNA

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>NM_005252.4 Homo sapiens Fos proto-oncogene, AP-1 transcription factor subunit (FOS), mRNA

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>NM_002015.4 Homo sapiens forkhead box O1 (FOXO1), mRNA

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>NM_001455.4 Homo sapiens forkhead box O3 (FOXO3), transcript variant 1, mRNA

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CTTGTGTATTCCACTTAAAACCGTAATCTAGTTTGTAAAAGAGATGGTGACGCATGTAAATAAAGCATCA

GTGACACTCTATCTTA

>NM_000152.5 Homo sapiens alpha glucosidase (GAA), transcript variant 1, mRNA

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GATGCCTGCCGGTCCCCGAGCAAGCCTGGGAACTCAGGAAAATTCACAGGACTTGGGAGATTCTAAATCT

TAAGTGCAATTATTTTTAATAAAAGGGGCATTTGGAATCAG

>NM_007278.2 Homo sapiens GABA type A receptor-associated protein (GABARAP), mRNA

GCAAATTCGTGGATCGCTCCGCTGAATCCGCCCGCGCGTCGCCGCCGTCGTCGCCGCCCCCCGTCCCGGC

CCCCCTGGGTTCCCTCAGCCCAGCCCTGTCCAGCCCGGTTCCCGGGAGGATGAAGTTCGTGTACAAAGAA

GAGCATCCGTTCGAGAAGCGCCGCTCTGAGGGCGAGAAGATCCGAAAGAAATACCCGGACCGGGTGCCGG

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TGGAGGGGGGTCTCATTCTACAAAGAGAGAGGTGGCCCCCCTTTCTTGACCTCCTCCTCCTTCAAGCTCA

AACACCACCTCCCTTATTCAGGACCGGCACTTCTTAATGTTTGTGGCTTTCTCTCCAGCCTCTCTTAGGA

GGGGTAATGGTGGAGTTGGCATCTTGTAACTCTCCTTTCTCCTTTCTTCCCCTTTCTCTGCCCGCCTTTC

CCATCCTGCTGTAGACTTCTTGATTGTCAGTCTGTGTCACATCCAGTGATTGTTTTGGTTTCTGTTCCCT

TTCTGACTGCCCAAGGGGCTCAGAACCCCAGCAATCCCTTCCTTTCACTACCTTCTTTTTTGGGGGTAGT

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CATTCTAACTAAGATATTTTCATGTGTGCAAGCTAGTAAAACGGCTGTTCTCAGTTGCA

>NM_001363598.2 Homo sapiens GABA type A receptor associated protein like 1 (GABARAPL1), transcript variant 1, mRNA

GTTTTTGTGCTCCCAGCTCTAGCGAAAAGCCGCCGGTATTTCTCCATCTGGCTCTCCTCTACCTCCAGGC

AGGCTCACCCGAGATCCCCGCCCCGAACCCCCCCTGCACACTCGGCCCAGCGCTGTTGCCCCCGGAGCGG

ACGTTTCTGCAGCTATTCTGAGCACACCTTGACGTCGGCTGAGGGAGCGGGACAGGGTCAGCGGCGAAGG

AGGCAGGCCCCGCGCGGGGATCTCGGAAGCCCTGCGGTGCATCATGAAGTTCCAGTACAAGGAGGACCAT

CCCTTTGAGTATCGGAAAAAGGAAGGAGAAAAGATCCGGAAGAAATATCCGGACAGGGTCCCCGTGATTG

TAGAGAAGGCTCCAAAAGCCAGGGTGCCTGATCTGGACAAGAGGAAGTACCTAGTGCCCTCTGACCTTAC

TGTTGGCCAGTTCTACTTCTTAATCCGGAAGAGAATCCACCTGAGACCTGAGGACGCCTTATTCTTCTTT

GTCAACAACACCATCCCTCCCACCAGTGCTACCATGGGCCAACTGTATGAGGTAATGGTTCTGGTTGCAC

AATACTGGATGCCGTCCAGTGCAGTCTGGCATCCTCTAGCCCTTGTTCTAGATGCGTTGATAACACATCT

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AGTCTTGTCTGACTATAGTGTTTTAATGCTGGACTGTTTATTGAAACAGCAGGAAGTGATTCCTGATAGC

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>NM_007285.7 Homo sapiens GABA type A receptor associated protein like 2 (GABARAPL2), mRNA

AGTCGCCGCCGTCGCTGCCGCTGCCGCTGCCGCCGTCGTTGTTGTTGTGCTCGGTGCGCTGAGCTCCGCG

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GGAACACAGATGCGTGGAGTCCGCGAAGATTCGAGCGAAATATCCCGACAGGGTTCCGGTGATTGTGGAA

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TTATATGTGGCCTACAGCGGAGAGAACACTTTTGGCTTCTGAGGGCCATTGCTGGGCTAGGTGCACCGTA

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TTAGTGCATTTGTAACTGGATTTATTTCTTAATATATTGGAAGGTTTTGTTTCCTTAGACTAGTAAATTA

TCATACAGAGTTTTATTTTGAGTTTTTCTTTTTGTGCATTGTCCTCATGCCTGTATTCTCCAGGAAACTT

GTCCTTCTGGAAATCATATTGAATGATATTTCTATATCGAAGTGAGGTAGGTGCGGTATTAAAGTGAAAG

GGAAGGTGATGCATTTATTCTGGGTTATGCTTGAAGTGTTAGATGGCTAAGTATTAAAATTATCCAAATT

AAATCCTTAGCAGTCAGAACACTTGCTTCACTAGAATATGCCAACTGCCAATCATGTTGGACTGAGCTAA

TTTGTTCCTCTTTCTGAAACTATTAAGGTAAATAATTAACAATAAAAATTCTCTTATAAAGGCA

>NM_002046.7 Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPDH), transcript variant 1, mRNA

GCTCTCTGCTCCTCCTGTTCGACAGTCAGCCGCATCTTCTTTTGCGTCGCCAGCCGAGCCACATCGCTCA

GACACCATGGGGAAGGTGAAGGTCGGAGTCAACGGATTTGGTCGTATTGGGCGCCTGGTCACCAGGGCTG

CTTTTAACTCTGGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCATTGACCTCAACTACATGGTTTA

CATGTTCCAATATGATTCCACCCATGGCAAATTCCATGGCACCGTCAAGGCTGAGAACGGGAAGCTTGTC

ATCAATGGAAATCCCATCACCATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGGGCGATGCTGGCG

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GAAGACTGTGGATGGCCCCTCCGGGAAACTGTGGCGTGATGGCCGCGGGGCTCTCCAGAACATCATCCCT

GCCTCTACTGGCGCTGCCAAGGCTGTGGGCAAGGTCATCCCTGAGCTGAACGGGAAGCTCACTGGCATGG

CCTTCCGTGTCCCCACTGCCAACGTGTCAGTGGTGGACCTGACCTGCCGTCTAGAAAAACCTGCCAAATA

TGATGACATCAAGAAGGTGGTGAAGCAGGCGTCGGAGGGCCCCCTCAAGGGCATCCTGGGCTACACTGAG

CACCAGGTGGTCTCCTCTGACTTCAACAGCGACACCCACTCCTCCACCTTTGACGCTGGGGCTGGCATTG

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GGACCTCATGGCCCACATGGCCTCCAAGGAGTAAGACCCCTGGACCACCAGCCCCAGCAAGAGCACAAGA

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CCTCACAGTTGCCATGTAGACCCCTTGAAGAGGGGAGGGGCCTAGGGAGCCGCACCTTGTCATGTACCAT

CAATAAAGTACCCTGTGCTCAACCA

>NM_006496.4 Homo sapiens G protein subunit alpha i3 (GNAI3), mRNA

GACGGAGAGGGCCACCGCCCAGCAATAGACGGTGCCTCAGCCTGCCGAGCCGCAGTTTCCGTGGTGTGAG

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GCAATTATTTGTTTTAGCTGGCAGTGCTGAAGAAGGAGTCATGACTCCAGAACTAGCAGGAGTGATTAAA

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TTTGATGTAGGTGGCCAAAGATCAGAACGAAAAAAGTGGATTCACTGTTTTGAGGGAGTGACAGCAATTA

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CACCCAGGGCAGCTGCCAATCAGAAATGCAAATTGCTAAATTCCAAACAGAACCAGTGACTTTGCTGCTA

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>NM_020399.4 Homo sapiens golgi associated PDZ and coiled-coil motif containing (GOPC), transcript variant 1, mRNA

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>NM_017551.3 Homo sapiens glutamate ionotropic receptor delta type subunit 1 (GRID1), mRNA

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>NM_004964.3 Homo sapiens histone deacetylase 1 (HDAC1), mRNA

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>NM_006044.4 Homo sapiens histone deacetylase 6 (HDAC6), transcript variant 5, mRNA

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>NM_004712.5 Homo sapiens hepatocyte growth factor-regulated tyrosine kinase substrate (HGS), mRNA

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>NM_001530.4 Homo sapiens hypoxia inducible factor 1 subunit alpha (HIF1A), transcript variant 1, mRNA

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>NM_007355.4 Homo sapiens heat shock protein 90 alpha family class B member 1 (HSP90AB1), transcript variant 2, mRNA

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>NM_005347.5 Homo sapiens heat shock protein family A (Hsp70) member 5 (HSPA5), mRNA

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A>NM_006597.6 Homo sapiens heat shock protein family A (Hsp70) member 8 (HSPA8), transcript variant 1, mRNA

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>NM_014365.3 Homo sapiens heat shock protein family B (small) member 8 (HSPB8), mRNA

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>NM_000619.3 Homo sapiens interferon gamma (IFNG), mRNA

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>NM_001190720.3 Homo sapiens inhibitor of nuclear factor kappa B kinase subunit beta (IKBKB), transcript variant 2, mRNA

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>NM_001193321.2 Homo sapiens inhibitor of nuclear factor kappa B kinase subunit epsilon (IKBKE), transcript variant 3, mRNA

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>NM_006850.3 Homo sapiens interleukin 24 (IL24), transcript variant 1, mRNA

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>NM_001145805.2 Homo sapiens immunity related GTPase M (IRGM), transcript variant 2, mRNA

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>NM_005501.2 Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), transcript variant b, mRNA

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AA

>NM_000210.4 Homo sapiens integrin subunit alpha 6 (ITGA6), transcript variant 2, mRNA

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>NM_002211.4 Homo sapiens integrin subunit beta 1 (ITGB1), transcript variant 1A, mRNA

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>NM_000213.5 Homo sapiens integrin subunit beta 4 (ITGB4), transcript variant 1, mRNA

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>NM_004521.3 Homo sapiens kinesin family member 5B (KIF5B), mRNA

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>NM_017644.3 Homo sapiens kelch like family member 24 (KLHL24), transcript variant 7, mRNA

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>NM_005561.4 Homo sapiens lysosomal associated membrane protein 1 (LAMP1), mRNA

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>NM_001122606.1 Homo sapiens lysosomal associated membrane protein 2 (LAMP2), transcript variant C, mRNA

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>NM_181509.3 Homo sapiens microtubule associated protein 1 light chain 3 alpha (MAP1LC3A), transcript variant 2, mRNA

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>NM_022818.5 Homo sapiens microtubule associated protein 1 light chain 3 beta (MAP1LC3B), mRNA

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>NM_001004343.3 Homo sapiens microtubule associated protein 1 light chain 3 gamma (MAP1LC3C), mRNA

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>NM_001297555.2 Homo sapiens mitogen-activated protein kinase kinase 7 (MAP2K7), transcript variant 1, mRNA

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>NM_002745.5 Homo sapiens mitogen-activated protein kinase 1 (MAPK1), transcript variant 1, mRNA

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>NM_001040056.3 Homo sapiens mitogen-activated protein kinase 3 (MAPK3), transcript variant 2, mRNA

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>NM_001278547.2 Homo sapiens mitogen-activated protein kinase 8 (MAPK8), transcript variant JNK1-b2, mRNA

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>NM_005456.4 Homo sapiens mitogen-activated protein kinase 8 interacting protein 1 (MAPK8IP1), mRNA

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>NM_001135044.2 Homo sapiens mitogen-activated protein kinase 9 (MAPK9), transcript variant JNK2-g, mRNA

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>NM_015884.4 Homo sapiens membrane bound transcription factor peptidase, site 2 (MBTPS2), mRNA

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>NM_022372.6 Homo sapiens MTOR associated protein, LST8 homolog (MLST8), transcript variant 1, mRNA

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>NM_022485.5 Homo sapiens myotubularin related protein 14 (MTMR14), transcript variant 3, mRNA

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>NM_004958.4 Homo sapiens mechanistic target of rapamycin kinase (MTOR), transcript variant 1, mRNA

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>NM_138386.3 Homo sapiens nuclear assembly factor 1 ribonucleoprotein (NAF1), transcript variant 1, mRNA

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>NM_005746.3 Homo sapiens nicotinamide phosphoribosyltransferase (NAMPT), mRNA

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>NM_005899.5 Homo sapiens NBR1 autophagy cargo receptor (NBR1), transcript variant 1, mRNA

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>NM_205842.3 Homo sapiens NCK associated protein 1 (NCKAP1), transcript variant 2, mRNA

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>NM_006164.5 Homo sapiens NFE2 like bZIP transcription factor 2 (NFE2L2), transcript variant 1, mRNA

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>NM_003998.4 Homo sapiens nuclear factor kappa B subunit 1 (NFKB1), transcript variant 1, mRNA

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>NM_145285.3 Homo sapiens NK2 homeobox 3 (NKX2-3), mRNA

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>NM_000271.5 Homo sapiens NPC intracellular cholesterol transporter 1 (NPC1), mRNA

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>NM_030759.5 Homo sapiens nuclear receptor binding factor 2 (NRBF2), transcript variant 1, mRNA

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>NM_001159995.3 Homo sapiens neuregulin 1 (NRG1), transcript variant HRG-beta1c, mRNA

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>NM_000918.4 Homo sapiens prolyl 4-hydroxylase subunit beta (P4HB), mRNA

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>NM_001618.4 Homo sapiens poly(ADP-ribose) polymerase 1 (PARP1), mRNA

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>NM_003768.5 Homo sapiens proliferation and apoptosis adaptor protein 15 (PEA15), transcript variant 2, mRNA

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>NM_014389.3 Homo sapiens proline, glutamate and leucine rich protein 1 (PELP1), transcript variant 1, mRNA

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>NM_003630.3 Homo sapiens peroxisomal biogenesis factor 3 (PEX3), mRNA

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>NM_002647.4 Homo sapiens phosphatidylinositol 3-kinase catalytic subunit type 3 (PIK3C3), transcript variant 1, mRNA

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>NM_014602.3 Homo sapiens phosphoinositide-3-kinase regulatory subunit 4 (PIK3R4), mRNA

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>NM_032409.3 Homo sapiens PTEN induced kinase 1 (PINK1), mRNA; nuclear gene for mitochondrial product

AGAGGCACCGCCCCAAGTTTGTTGTGACCGGCGGGGGACGCCGGTGGTGGCGGCAGCGGCGGCTGCGGGG

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>NM_014330.5 Homo sapiens protein phosphatase 1 regulatory subunit 15A (PPP1R15A), mRNA

GCTCTTATCGGTTCCCATCCCAGTTGTTGATCTTATGCAAGACGCTGCACGACCCCGCGCCCGCTTGTCG

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>NM_006253.5 Homo sapiens protein kinase AMP-activated non-catalytic subunit beta 1 (PRKAB1), mRNA

GACTCCTTCCGCAGGCTCCTTGGGACCCGCGGTTCCGGGAGTCCCTTGCTCAGGGTCCCTTTCCTGCAGT

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>NM_001316327.2 Homo sapiens protein kinase C delta (PRKCD), transcript variant 3, mRNA

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>NM_004562.3 Homo sapiens parkin RBR E3 ubiquitin protein ligase (PRKN), transcript variant 1, mRNA

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>NM_000314.8 Homo sapiens phosphatase and tensin homolog (PTEN), transcript variant 1, mRNA

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>NM_001256358.2 Homo sapiens protein tyrosine kinase 6 (PTK6), transcript variant 2, mRNA

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>NM_001206836.2 Homo sapiens RAB11A, member RAS oncogene family (RAB11A), transcript variant 2, mRNA

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>NM_004161.5 Homo sapiens RAB1A, member RAS oncogene family (RAB1A), transcript variant 1, mRNA

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>NM_130781.4 Homo sapiens RAB24, member RAS oncogene family (RAB24), transcript variant 2, mRNA

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>NM_031296.3 Homo sapiens RAB33B, member RAS oncogene family (RAB33B), mRNA

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>NM_004162.5 Homo sapiens RAB5A, member RAS oncogene family (RAB5A), transcript variant 1, mRNA

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>NM_004637.6 Homo sapiens RAB7A, member RAS oncogene family (RAB7A), mRNA

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>NM_018890.4 Homo sapiens Rac family small GTPase 1 (RAC1), transcript variant Rac1b, mRNA

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>NM_006098.5 Homo sapiens receptor for activated C kinase 1 (RACK1), mRNA

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>NM_002880.4 Homo sapiens Raf-1 proto-oncogene, serine/threonine kinase (RAF1), transcript variant 2, mRNA

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>NM_000321.3 Homo sapiens RB transcriptional corepressor 1 (RB1), transcript variant 1, mRNA

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>NM_014781.5 Homo sapiens RB1 inducible coiled-coil 1 (RB1CC1), transcript variant 1, mRNA

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>NM_021975.4 Homo sapiens RELA proto-oncogene, NF-kB subunit (RELA), transcript variant 1, mRNA

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>NM_005873.3 Homo sapiens regulator of G protein signaling 19 (RGS19), transcript variant 1, mRNA

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>NM_005614.4 Homo sapiens Ras homolog, mTORC1 binding (RHEB), mRNA

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>NM_003161.4 Homo sapiens ribosomal protein S6 kinase B1 (RPS6KB1), transcript variant 1, mRNA

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>NM_020761.3 Homo sapiens regulatory associated protein of MTOR complex 1 (RPTOR), transcript variant 1, mRNA

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>NM_001145642.5 Homo sapiens rubicon autophagy regulator (RUBCN), transcript variant 1, mRNA

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>NM_016009.5 Homo sapiens SH3 domain containing GRB2 like, endophilin B1 (SH3GLB1), transcript variant 1, mRNA

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>NM_001193286.2 Homo sapiens sirtuin 2 (SIRT2), transcript variant 3, mRNA

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>NM_182965.3 Homo sapiens sphingosine kinase 1 (SPHK1), transcript variant 2, mRNA

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>NM_032038.3 Homo sapiens sphingolipid transporter 1 (putative) (SPNS1), transcript variant 1, mRNA

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>NM_001142298.2 Homo sapiens sequestosome 1 (SQSTM1), transcript variant 2, mRNA

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>NM_003932.5 Homo sapiens ST13 Hsp70 interacting protein (ST13), transcript variant 1, mRNA

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>NM_000455.5 Homo sapiens serine/threonine kinase 11 (STK11), transcript variant 1, mRNA

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GGA

>NM_013254.4 Homo sapiens TANK binding kinase 1 (TBK1), mRNA

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>NM_006405.7 Homo sapiens transmembrane 9 superfamily member 1 (TM9SF1), transcript variant 1, mRNA

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>NM_001165030.3 Homo sapiens transmembrane protein 41B (TMEM41B), transcript variant 2, mRNA

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>NM_153015.3 Homo sapiens transmembrane protein 74 (TMEM74), transcript variant 1, mRNA

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>NM_001190942.2 Homo sapiens TNF superfamily member 10 (TNFSF10), transcript variant 2, mRNA

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>NM_000546.6 Homo sapiens tumor protein p53 (TP53), transcript variant 1, mRNA

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>NM_021202.3 Homo sapiens tumor protein p53 inducible nuclear protein 2 (TP53INP2), transcript variant 1, mRNA

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>NM_003722.5 Homo sapiens tumor protein p63 (TP63), transcript variant 1, mRNA

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>NM_005427.4 Homo sapiens tumor protein p73 (TP73), transcript variant 1, mRNA

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>NM_000368.5 Homo sapiens TSC complex subunit 1 (TSC1), transcript variant 1, mRNA

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>NM_000548.5 Homo sapiens TSC complex subunit 2 (TSC2), transcript variant 1, mRNA

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>NM_001004125.3 Homo sapiens tumor suppressor candidate 1 (TUSC1), mRNA

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>NM_003565.4 Homo sapiens unc-51 like autophagy activating kinase 1 (ULK1), mRNA

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>NM_014683.4 Homo sapiens unc-51 like autophagy activating kinase 2 (ULK2), transcript variant 1, mRNA

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>NR_104309.3 Homo sapiens unc-51 like kinase 3 (ULK3), transcript variant 6, non-coding RNA

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>NM_001272075.2 Homo sapiens ubiquitin specific peptidase 10 (USP10), transcript variant 1, mRNA

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>NM_003369.4 Homo sapiens UV radiation resistance associated (UVRAG), transcript variant 2, mRNA

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>NM_004781.4 Homo sapiens vesicle associated membrane protein 3 (VAMP3), mRNA

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>NM_005638.6 Homo sapiens vesicle associated membrane protein 7 (VAMP7), transcript variant 1, mRNA

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>NM_001025366.3 Homo sapiens vascular endothelial growth factor A (VEGFA), transcript variant 1, mRNA

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>NM_030938.5 Homo sapiens vacuole membrane protein 1 (VMP1), transcript variant 1, mRNA

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>NM_014991.6 Homo sapiens WD repeat and FYVE domain containing 3 (WDFY3), mRNA

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>NM_019613.4 Homo sapiens WD repeat domain 45B (WDR45B), mRNA

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>NM_017983.7 Homo sapiens WD repeat domain, phosphoinositide interacting 1 (WIPI1), transcript variant 1, mRNA

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>NM_015610.4 Homo sapiens WD repeat domain, phosphoinositide interacting 2 (WIPI2), transcript variant 1, mRNA

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>NM_021260.4 Homo sapiens zinc finger FYVE-type containing 1 (ZFYVE1), transcript variant 1, mRNA

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