VPS52 cDNA Clone – Vacuolar Protein Sorting 52 Homolog (S. Cerevisiae) (Human)

PRODUCT OVERVIEW

Product Name	VPS52, cDNA Clone
Full Product Name	VPS52 cDNA Clone
Product Gene Name	VPS52 cdna clone
Sequence	atggccgccg ctgcgaccat ggcggctgcg gcccgggaac tggtgttgcg ggctgggacc tcagatatgg aggaggaaga gggcccgctg gcgggtggtc ctgggctcca ggaaccactg caacttgggg agttggatat cacttctgat gaattcatcc tggatgaagt ggatgttcac attcaggcaa atctggagga tgagttagta aaggaagctc ttaaaacggg tgtagatctc cgtcactatt caaagcaagt tgagctggag ctacagcaga ttgaacagaa atccattcgg gattatattc aagagagtga gaatatagca tctctacaca accagatcac agcctgtgat gctgtcctgg agcgaatgga gcagatgttg ggagcttttc agagtgacct cagctccatc agctctgaga tccggacact gcaggaacag tcaggagcca tgaacattcg acttcgaaat cgccaggcag ttcgggggaa acttggggag cttgttgatg gtctggtggt gccttctgct ctggtcacgg caattctgga ggctccagtg acagagccca ggttcttgga gcagctacag gagctggatg ccaaggcagc cgcagtcaga gagcaggaag ctagaggcac agcagcctgc gcagatgtca gaggcgtgct cgatcggctc cgggtcaagg cagtgacgaa gatccgagag tttatcctcc agaagattta ttccttcagg aaacccatga ccaactatca gatcccccag acggccctgc tgaagtacag gttcttctat cagtttctgc tgggcaatga acgagcaaca gcaaaggaga tcagggatga atatgtggag acgctgagca agatttacct gtcttactac cgctcttacc tggggcggct catgaaggtg cagtatgagg aagtcgctga gaaagatgat ctaatgggtg tggaagatac agcaaagaaa ggattcttct caaagccatc gctccgcagc aggaacacca ttttcaccct aggaacccgc ggctctgtca tctcccccac tgaacttgag gcccccatcc tggtgcctca cacagcgcag cgcggagagc agaggtatcc atttgaggcc ctcttccgca gccagcacta cgccctccta gacaattcct gccgcgaata ccttttcatc tgtgaatttt ttgttgtgtc tggcccagct gcacacgacc tgttccatgc tgtcatgggc cgtacactca gcatgaccct gaaacacctg gattcttatc tagctgactg ctacgatgcc attgctgttt ttctctgtat ccacattgtt ctccggttcc gtaacattgc agcaaagagg gatgttcctg ccctggacag gtactgggaa caggtgcttg ccttgctatg gccacggttt gaactgatcc tggagatgaa tgttcagagc gtccgaagca ctgacccca gcgcctaggg gggttggata ctcggcccca ctatatcaca cgccgctatg cagagttctc ctccgctctt gtcagtatca accagacaat tcctaatgaa cggaccatgc aattgctggg acagctgcag gtggaggtgg agaattttgt cctccgagtg gcagctgagt tctcctcaag gaaggagcag cttgtgtttc tgatcaacaa ctatgacatg atgctgggtg tgctgatgga gcgggctgca gatgacagca aagaggttga gagcttccag cagctgctca atgctcggac acaggaattc attgaagagt tgctgtctcc ccctttggg ggtttagtgg catttgtgaa ggaggctgag gctttgattg agcgtggaca ggctgagcga cttcgagggg aagaagcccg ggtaactcag ctgatccgtg gctttggtag ttcctggaaa tcatcagtgg aatctctgag tcaggatgta atgcggagtt tcaccaactt cagaaatggc accagtatca ttcagggagc gctgacccag ctgatccagc tctatcatcg cttccaccgg gtgctgtccc agccgcagct ccgagccctc cctgcccggg ctgagctcat caacattcac caccttatgg tggagctcaa gaagcataag cccaacttct ga
Molecular Weight	68,496 Da
OMIM	603443
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for VPS52 cdna clone	MBS1276292 is a cDNA clone targeting VPS52.
Other Notes	Small volumes of VPS52 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VPS52. It may not necessarily be applicable to this product.

NCBI GI #	21594272
NCBI GeneID	6293
NCBI Accession #	BC032108
UniProt Secondary Accession #	Q53GR4; Q5JPA0; Q5SQW1; Q8IUN6; Q9NPT5; A2BF38; B0UZZ4; B4DNI9
UniProt Related Accession #	Q8N1B4

NCBI Official Full Name	Homo sapiens vacuolar protein sorting 52 homolog (S. cerevisiae), mRNA
NCBI Official Synonym Full Names	VPS52, GARP complex subunit
NCBI Official Symbol	VPS52
NCBI Official Synonym Symbols	ARE1; SAC2; SACM2L; dJ1033B10.5
UniProt Protein Name	Vacuolar protein sorting-associated protein 52 homolog
UniProt Synonym Protein Names	SAC2 suppressor of actin mutations 2-like protein
Protein Family	Vacuolar protein sorting-associated protein
UniProt Gene Name	VPS52
UniProt Synonym Gene Names	SACM2L
UniProt Entry Name	VPS52_HUMAN
NCBI Protein Information	vacuolar protein sorting-associated protein 52 homolog
NCBI Summary for VPS52	This gene encodes a protein that is similar to the yeast suppressor of actin mutations 2 gene. The yeast protein forms a subunit of the tetrameric Golgi-associated retrograde protein complex that is involved in vesicle trafficking from from both early and late endosomes, back to the trans-Golgi network. This gene is located on chromosome 6 in a head-to-head orientation with the gene encoding ribosomal protein S18. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]
UniProt Comments for VPS52	VPS52: May be involved in retrograde transport of early and late endosomes to the late Golgi. The GARP complex is required for the maintenance of the cycling of mannose 6-phosphate receptors between the TGN and endosomes, this cycling is necessary for proper lysosomal sorting of acid hydrolases such as CTSD. Belongs to the VPS52 family. Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: Golgi apparatus; membrane; perinuclear region of cytoplasm; recycling endosome; trans-Golgi network membrane Molecular Function: protein binding; syntaxin binding Biological Process: endocytic recycling; lysosomal transport
Research Articles on VPS52	**1.** our data indicate that cisplatin resistance in HOCCs is partially attributable to their high expression of p62, which plays an important role in preventing ROS stress-induced apoptosis by regulating the Keap1-Nrf2-ARE signaling pathway.
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