VPS37A cDNA Clone – Vacuolar Protein Sorting 37 Homolog A (S. Cerevisiae) (Human)

PRODUCT OVERVIEW

Product Name	VPS37A, cDNA Clone
Full Product Name	VPS37A cDNA Clone
Product Gene Name	VPS37A cdna clone
Sequence	atgagctggc tttttcccct gaccaagagc gcctcctcct ccgcggctgg gtcccccggt ggcctcacca gcctccagca gcagaagcag cgcctgatcg agtccctccg gaactcacac tccagtatag ccgaaataca gaaagatgtg gaatacagat tgccattcac cataaacaac ctgacaatta acattaatat actgcttcct ccacagtttc ctcaggaaaa accagtgatc agtgtttatc caccaatacg acatcactta atggataaac aaggagtgta tgttacctct ccattagtaa acaattttac aatgcactca gatcttggaa aaattattca gagtctgttg gatgagtttt ggaagaatcc tccagtttta gctcctactt caacagcatt tccttatcta tacagtaacc caagtgggat gtctccttat gcttctcagg gttttccatt tcttcctcca tatcctccac aagaagcaaa caggagtatc acttctttat ctgttgctga cactgtttct tcttcaacaa caagtcatac cacagccaag cctgccgctc cttcatttgg tgtcctttca aatctgccat tacccattcc cacagtggat gcttcaatac cgacaagcca aaatggtttt gggtacaaga tgccagatgt ccctgatgca tttccagaac tctcagaact aagtgtgtca caactcacag atatgaatga acaagaggag gtattactag aacagtttct gactttgcct caactaaaac aaattattac cgacaaagat gacttagtaa aaagtattga ggaactagca agaaaaaatc tcctttgga gcccagcttg gaagccaaaa gacaaactgt tttagataag tatgaattac ttacacagat gaagtccact ttcgaaaaga agatgcaaag gcagcatgaa cttagtgaga tctgtagtgc aagtgccctt caggcaagat tgaaagtagc tgcacatgaa gctgaggaag aatctgataa tattgcagaa gatttcttgg agggaaagat ggaaatagat gattttctca gtagcttcat ggaaaagaga acaatttgcc actgtagaag agccaaggaa gagaaacttc agcaggcgat agcaatgcac agccaatttc atgctccact atag
Molecular Weight	20,891 Da
OMIM	609927
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for VPS37A cdna clone	MBS1278536 is a cDNA clone targeting VPS37A.
Other Notes	Small volumes of VPS37A 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 VPS37A. It may not necessarily be applicable to this product.

NCBI GI #	45709974
NCBI GeneID	137492
NCBI Accession #	BC067754
UniProt Secondary Accession #	Q336D5; Q6NW27; Q8N3D7; Q8TBL7; Q96DL9
UniProt Related Accession #	Q8NEZ2
NCBI Official Full Name	Homo sapiens vacuolar protein sorting 37 homolog A (S. cerevisiae), mRNA
NCBI Official Synonym Full Names	VPS37A, ESCRT-I subunit
NCBI Official Symbol	VPS37A
NCBI Official Synonym Symbols	HCRP1; PQBP2; SPG53
UniProt Protein Name	Vacuolar protein sorting-associated protein 37A

UniProt Synonym Protein Names	ESCRT-I complex subunit VPS37A; Hepatocellular carcinoma-related protein 1
Protein Family	Vacuolar protein sorting-associated protein
UniProt Gene Name	VPS37A
UniProt Synonym Gene Names	HCRP1; hVps37A
UniProt Entry Name	VP37A_HUMAN
NCBI Protein Information	vacuolar protein sorting-associated protein 37A
NCBI Summary for VPS37A	This gene belongs to the VPS37 family, and encodes a component of the ESCRT-I (endosomal sorting complex required for transport I) protein complex, required for the sorting of ubiquitinated transmembrane proteins into internal vesicles of multivesicular bodies. Expression of this gene is downregulated in hepatocellular carcinoma, and mutations in this gene are associated with autosomal recessive spastic paraplegia-53. A related pseudogene has been identified on chromosome 5. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2012]
UniProt Comments for VPS37A	VPS37A: Component of the ESCRT-I complex, a regulator of vesicular trafficking process. Required for the sorting of endocytic ubiquitinated cargos into multivesicular bodies. May be involved in cell growth and differentiation. Defects in VPS37A are a cause of autosomal recessive complex hereditary spastic paraparesis, a complicated form of hereditary spastic paraplegia (HSP). HSP is a heterogeneous group of neurodegenerative disorders characterized by progressive lower limb spasticity, retrograde degeneration of the crossed cortico- spinal tracts and thinning of the posterior columns in the spinal cord. Complicated forms are characterized by the addition of such neurological features as spastic quadriparesis, seizures, dementia, amyotrophy, extrapyramidal disturbance, cerebral or cerebellar atrophy, optic atrophy, and peripheral neuropathy, as well as by extra neurological manifestations such as dysmorphism, albinism, retinitis pigmentosa, deafness, dementia, amyotrophy and ichthyosis. Individuals with VPS37A mutations present with pronounced early onset spastic paraparesis of upper and lower limbs, mild intellectual disability, kyphosis, pectus carinatum and hypertrichosis. Belongs to the VPS37 family. 3 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 8p22 Cellular Component: centrosome; cytoplasm; endosome membrane; intracellular membrane-bound organelle; nucleoplasm Molecular Function: protein binding Biological Process: autophagy; endosome transport; ubiquitin-dependent protein catabolic process via the multivesicular body pathway; viral infectious cycle Disease: Spastic Paraplegia 53, Autosomal Recessive
Research Articles on VPS37A	**1.** Low HCRP1 expression was found to be of adverse prognostic significance in patients with oral and oropharyngeal squamous cell carcinoma who received preoperative chemoradiotherapy
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/cdna-clone/vps37a/1278536