VPS35 siRNA – Vacuolar Protein Sorting-Associated Protein 35 (Mouse)

PRODUCT OVERVIEW

Product Name	VPS35, siRNA
Full Product Name	VPS35 siRNA (Mouse)
Product Gene Name	VPS35 sirna
Product Synonym Names	MEM3; Vacuolar protein sorting-associated protein 35; Maternal-embryonic 3; Vesicle protein sorting 35
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	VPS35 siRNA (Mouse) is a target-specific 19-23 nt siRNA oligo duplexes designed to knock down gene expression.
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	91,713 Da
3D Structure	ModBase 3D Structure for Q9EQH3
Negative Control	siRNA Negative Control (Catalog# MBS8241404) is a non-targeting 21 nt siRNA recommended as a negative control for experiments using targeted siRNA transfection.
Quality Control	Oligonucleotide synthesis is monitored base by base through trityl analysis to ensure appropriate coupling efficiency. The oligo is subsequently purified by affinity-solid phase extraction. The annealed RNA duplex is further analyzed by mass spectrometry to verify the exact composition of the duplex. Each lot is compared to the previous lot by mass spectrometry to ensure maximum lot-to-lot consistency.
Directions for Use	We recommends transfection with 100 nM siRNA 48 to 72 hours prior to cell lysis. Before resuspending, briefly centrifuge the tube to ensure the lyophilized siRNA is at the bottom of the tube. Resuspend the siRNA oligos to an appropriate concentration with DEPC water. For each vial, suitable for 250 transfections in 24 well plate (20 pmol for each well).
Components	We offer pre-designed sets of 3 different target-specific siRNA oligo duplexes of mouse VPS35 gene. Each vial contains 5 nmol of lyophilized siRNA. The duplexes can be transfected individually or pooled together to achieve knockdown of the target gene, which is most commonly assessed by qPCR or western blot. Our siRNA oligos are also chemically modified (2'-OMe) at no extra charge for increased stability and enhanced knockdown in vitro and in vivo.
Applications Tested/Suitable for VPS35 sirna	RNA Interference (RNAi)
Related Product Information for VPS35 sirna	MBS8238106 is an siRNA targeting VPS35. Also known as VPS35 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit VPS35 expression using RNA interference
Other Notes	Small volumes of VPS35 sirna 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 VPS35. It may not necessarily be applicable to this product.

NCBI GI #	13928670

NCBI GeneID	65114
NCBI Accession #	NP_075373.1
UniProt Primary Accession #	Q9EQH3
UniProt Secondary Accession #	Q61123
UniProt Related Accession #	Q9EQH3
GenBank Nucleotide #	NM_022997.4
NCBI Official Full Name	vacuolar protein sorting-associated protein 35
NCBI Official Synonym Full Names	vacuolar protein sorting 35
NCBI Official Symbol	Vps35
NCBI Official Synonym Symbols	Mem3; AI647796
UniProt Protein Name	Vacuolar protein sorting-associated protein 35
UniProt Synonym Protein Names	Maternal-embryonic 3; Vesicle protein sorting 35
Protein Family	Vacuolar protein sorting-associated protein
UniProt Gene Name	Vps35
UniProt Synonym Gene Names	Mem3
UniProt Entry Name	VPS35_MOUSE
NCBI Protein Information	vacuolar protein sorting-associated protein 35
UniProt Comments for VPS35	VPS35: Essential component of the retromer complex, a complex required to retrieve lysosomal enzyme receptors (IGF2R and M6PR) from endosomes to the trans-Golgi network. Also required to regulate transcytosis of the polymeric immunoglobulin receptor (pIgR-pIgA). Defects in VPS35 are the cause of Parkinson disease type 17 (PARK17). PARK17 is an autosomal dominant, adult- onset form of Parkinson disease. Parkinson disease is a complex neurodegenerative disorder characterized by bradykinesia, resting tremor, muscular rigidity and postural instability, as well as by a clinically significant response to treatment with levodopa. The pathology involves the loss of dopaminergic neurons in the substantia nigra and the presence of Lewy bodies (intraneuronal accumulations of aggregated proteins), in surviving neurons in various areas of the brain. Belongs to the VPS35 family. Protein type: Vesicle Cellular Component: membrane; retromer complex; lysosomal membrane; late endosome; cytoplasm; integral to membrane; vacuole; cytosol; endosome Molecular Function: protein binding; protein transporter activity Biological Process: intracellular protein transport; protein transport; transport; vacuolar protein processing; transcytosis; retrograde transport, endosome to Golgi
Research Articles on VPS35	**1.** Our studies reveal unexpected genetic and functional interactions between VPS35 and EIF4G1, two seemingly unrelated PD genes, and functionally connect them to alpha-synuclein pathobiology in yeast, worms, and mouse.
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/mouse-sirna/vps35/8238106