MRPL32 siRNA – 39s Ribosomal Protein L32, Mitochondrial (Mouse)

PRODUCT OVERVIEW

Product Name	MRPL32, siRNA
Full Product Name	MRPL32 siRNA (Mouse)
Product Gene Name	MRPL32 sirna
Product Synonym Names	HEG1; 39S ribosomal protein L32 mitochondrial; L32mt; MRP-L32; Heart-expressed gene 1 protein
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MRPL32 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	21,733 Da
3D Structure	ModBase 3D Structure for Q9DCI9
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 MRPL32 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 MRPL32 sirna	RNA Interference (RNAi)
Related Product Information for MRPL32 sirna	MBS8221833 is an siRNA targeting MRPL32. Also known as MRPL32 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit MRPL32 expression using RNA interference
Other Notes	Small volumes of MRPL32 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 MRPL32. It may not necessarily be applicable to this product.

NCBI GI #	21312948

NCBI GeneID	75398
NCBI Accession #	NP_083547.1
UniProt Primary Accession #	Q9DCI9
UniProt Secondary Accession #	Q91XR6
UniProt Related Accession #	Q9DCI9
GenBank Nucleotide #	NM_029271.2
NCBI Official Full Name	39S ribosomal protein L32, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L32
NCBI Official Symbol	Mrpl32
NCBI Official Synonym Symbols	0610033O15Rik
UniProt Protein Name	39S ribosomal protein L32, mitochondrial
UniProt Synonym Protein Names	Heart-expressed gene 1 protein
Protein Family	39S ribosomal protein
UniProt Gene Name	Mrpl32
UniProt Synonym Gene Names	Heg1; L32mt; MRP-L32
UniProt Entry Name	RM32_MOUSE
NCBI Protein Information	39S ribosomal protein L32, mitochondrial
UniProt Comments for MRPL32	MRPL32: a mitochondrial ribosomal protein encoded by a nuclear gene that helps in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 39S subunit protein that belongs to the L32 ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome Xp. [provided by RefSeq, Jul 2008] Cellular Component: mitochondrion; ribosome; mitochondrial large ribosomal subunit; ribonucleoprotein complex; large ribosomal subunit Molecular Function: structural constituent of ribosome Biological Process: translation
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