NXNL2 siRNA – Nucleoredoxin-Like Protein 2 (Mouse)

PRODUCT OVERVIEW

Product Name	NXNL2, siRNA
Full Product Name	NXNL2 siRNA (Mouse)
Product Gene Name	NXNL2 sirna
Product Synonym Names	Nucleoredoxin-like protein 2; Rod-derived cone viability factor 2; RdCVF2
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	NXNL2 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	11,352 Da
3D Structure	ModBase 3D Structure for Q9D531
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 NXNL2 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 NXNL2 sirna	RNA Interference (RNAi)
Related Product Information for NXNL2 sirna	MBS829462 is an siRNA targeting NXNL2. Also known as NXNL2 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit NXNL2 expression using RNA interference
Other Notes	Small volumes of NXNL2 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 NXNL2. It may not necessarily be applicable to this product.

NCBI GI #	22165362

NCBI GeneID	75124
NCBI Accession #	NP_083449.1
UniProt Primary Accession #	Q9D531
UniProt Secondary Accession #	Q91WB0
UniProt Related Accession #	Q9D531
GenBank Nucleotide #	NM_029173.4
NCBI Official Full Name	nucleoredoxin-like protein 2
NCBI Official Synonym Full Names	nucleoredoxin-like 2
NCBI Official Symbol	Nxnl2
NCBI Official Synonym Symbols	Rdcvf2; 4930519N16Rik
UniProt Protein Name	Nucleoredoxin-like protein 2
UniProt Synonym Protein Names	Rod-derived cone viability factor 2; RdCVF2
Protein Family	Nucleoredoxin-like protein
UniProt Gene Name	Nxnl2
UniProt Synonym Gene Names	RdCVF2
UniProt Entry Name	NXNL2_MOUSE
NCBI Protein Information	nucleoredoxin-like protein 2
UniProt Comments for NXNL2	NXNL2: Belongs to the nucleoredoxin family. 2 isoforms of the human protein are produced by alternative splicing. Cellular Component: cytoplasm Molecular Function: thioredoxin-disulfide reductase activity Biological Process: sensory perception of smell; visual perception
Research Articles on NXNL2	**1.** This study shows that Nxnl2 is a bi-functional gene involved in the maintenance of both the function and the viability of sensory neurons.
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