MORF4L2 siRNA – Mortality Factor 4-Like Protein 2 (Human)

PRODUCT OVERVIEW

Product Name	MORF4L2, siRNA
Full Product Name	MORF4L2 siRNA (Human)
Product Gene Name	MORF4L2 sirna
Product Synonym Names	KIAA0026; MRGX; Mortality factor 4-like protein 2; MORF-related gene X protein; Protein MSL3-2; Transcription factor-like protein MRGX
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MORF4L2 siRNA (Human) 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	32,308 Da
OMIM	300409
3D Structure	ModBase 3D Structure for Q15014
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 human MORF4L2 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 MORF4L2 sirna	RNA Interference (RNAi)
Related Product Information for MORF4L2 sirna	MBS8236554 is an siRNA targeting MORF4L2. Also known as MORF4L2 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit MORF4L2 expression using RNA interference
Other Notes	Small volumes of MORF4L2 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 MORF4L2. It may not necessarily be applicable to this product.

NCBI GI #	215490021
NCBI GeneID	9643
NCBI Accession #	NP_001135890.1
UniProt Primary Accession #	Q15014
UniProt Secondary Accession #	Q567V0; Q8J026; B3KP92; D3DXA5
UniProt Related Accession #	Q15014
GenBank Nucleotide #	NM_001142418.1
NCBI Official Full Name	mortality factor 4-like protein 2
NCBI Official Synonym Full Names	mortality factor 4 like 2
NCBI Official Symbol	MORF4L2
NCBI Official Synonym Symbols	MRGX; MORFL2
UniProt Protein Name	Mortality factor 4-like protein 2
UniProt Synonym Protein Names	MORF-related gene X protein; Protein MSL3-2; Transcription factor-like protein MRGX
Protein Family	Mortality factor 4-like protein
UniProt Gene Name	MORF4L2
UniProt Synonym Gene Names	KIAA0026; MRGX
UniProt Entry Name	MO4L2_HUMAN
NCBI Protein Information	mortality factor 4-like protein 2
UniProt Comments for MORF4L2	MORF4L2: Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histone H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. The NuA4 complex ATPase and helicase activities seem to be, at least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400. NuA4 may also play a direct role in DNA repair when directly recruited to sites of DNA damage. Also component of the MSIN3A complex which acts to repress transcription by deacetylation of nucleosomal histones. Chromosomal Location of Human Ortholog: Xq22 Cellular Component: nucleoplasm; nucleolus Molecular Function: protein binding Biological Process: establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; regulation of growth; positive regulation of transcription from RNA polymerase II promoter; positive regulation of striated muscle cell differentiation; chromatin modification; DNA repair
Research Articles on MORF4L2	**1.** The transcriptional status of four key genes, thymidylate synthase (TYMS), MORF-related gene X (MRGX), Bcl2-antagonist/killer (BAK), and ATPase, Cu(2+) transporting beta polypeptide (ATP7B), can accurately predict response to 5-FU.
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