CASC3 siRNA – Protein CASC3 (Mouse)

PRODUCT OVERVIEW

Product Name	CASC3, siRNA
Full Product Name	CASC3 siRNA (Mouse)
Product Gene Name	CASC3 sirna
Product Synonym Names	MLN51; Protein CASC3; Cancer susceptibility candidate gene 3 protein homolog; Metastatic lymph node gene 51 protein homolog; MLN 51 homolog; Protein barentsz; Btz; mBtz
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	CASC3 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	75,770 Da
3D Structure	ModBase 3D Structure for Q8K3W3
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 CASC3 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 CASC3 sirna	RNA Interference (RNAi)
Related Product Information for CASC3 sirna	MBS8232136 is an siRNA targeting CASC3. Also known as CASC3 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit CASC3 expression using RNA interference
Other Notes	Small volumes of CASC3 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 CASC3. It may not necessarily be applicable to this product.

NCBI GI #	160333568

NCBI GeneID	192160
NCBI Accession #	NP_619601.2
UniProt Primary Accession #	Q8K3W3
UniProt Secondary Accession #	Q3UT99; Q8K219; Q99NF0; A3KFP7
UniProt Related Accession #	Q8K3W3
GenBank Nucleotide #	NM_138660.2
NCBI Official Full Name	protein CASC3
NCBI Official Synonym Full Names	cancer susceptibility candidate 3
NCBI Official Symbol	Casc3
NCBI Official Synonym Symbols	Btz; Mln51
UniProt Protein Name	Protein CASC3
UniProt Synonym Protein Names	Cancer susceptibility candidate gene 3 protein homolog; Metastatic lymph node gene 51 protein homolog; MLN 51 homolog; Protein barentsz; Btz; mBtz
Protein Family	Protein
UniProt Gene Name	Casc3
UniProt Synonym Gene Names	Mln51; MLN 51 homolog; Btz; mBtz
UniProt Entry Name	CASC3_MOUSE
NCBI Protein Information	protein CASC3
UniProt Comments for CASC3	CASC3: Component of a splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. The EJC is a dynamic structure consisting of a few core proteins and several more peripheral nuclear and cytoplasmic associated factors that join the complex only transiently either during EJC assembly or during subsequent mRNA metabolism. Core components of the EJC, that remains bound to spliced mRNAs throughout all stages of mRNA metabolism, functions to mark the position of the exon-exon junction in the mature mRNA and thereby influences downstream processes of gene expression including mRNA splicing, nuclear mRNA export, subcellular mRNA localization, translation efficiency and nonsense-mediated mRNA decay (NMD). Stimulates the ATPase and RNA- helicase activities of EIF4A3. Plays a role in the stress response by participating in cytoplasmic stress granules assembly and by favoring cell recovery following stress. Component of the dendritic ribonucleoprotein particles (RNPs) in hippocampal neurons. May play a role in mRNA transport. Binds spliced mRNA in sequence-independent manner, 20-24 nucleotides upstream of mRNA exon-exon junctions. Binds poly(G) and poly(U) RNA homopolymer. Belongs to the CASC3 family. Protein type: RNA-binding; Translation Cellular Component: cytoplasm; ribonucleoprotein complex; nucleus Molecular Function: identical protein binding; protein binding; enzyme binding; RNA binding; ubiquitin protein ligase binding Biological Process: regulation of translation; intracellular mRNA localization; mRNA transport; transport; RNA splicing; mRNA catabolic process, nonsense-mediated decay; mRNA processing
Research Articles on CASC3	**1.** data suggest that the mRNA transport machinery is conserved during evolution, and that mammalian Btz is an additional component of the dendritic ribonucleoprotein particles in hippocampal neurons
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