TSNAX siRNA – Translin-Associated Protein X (Human)

PRODUCT OVERVIEW

Product Name	TSNAX, siRNA
Full Product Name	TSNAX siRNA (Human)
Product Gene Name	TSNAX sirna
Product Synonym Names	TRAX; Translin-associated protein X; Translin-associated factor X
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	TSNAX 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	33,112 Da
OMIM	602964
3D Structure	ModBase 3D Structure for Q99598
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 TSNAX 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 TSNAX sirna	RNA Interference (RNAi)
Related Product Information for TSNAX sirna	MBS8201768 is an siRNA targeting TSNAX. Also known as TSNAX siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit TSNAX expression using RNA interference
Other Notes	Small volumes of TSNAX 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 TSNAX. It may not necessarily be applicable to this product.

NCBI GI #	5174731
NCBI GeneID	7257
NCBI Accession #	NP_005990.1
UniProt Primary Accession #	Q99598
UniProt Secondary Accession #	B1APC6
UniProt Related Accession #	Q99598
GenBank Nucleotide #	NM_005999.2
NCBI Official Full Name	translin-associated protein X
NCBI Official Synonym Full Names	translin-associated factor X
NCBI Official Symbol	TSNAX
NCBI Official Synonym Symbols	TRAX
UniProt Protein Name	Translin-associated protein X
UniProt Synonym Protein Names	Translin-associated factor X
Protein Family	Translin-associated protein
UniProt Gene Name	TSNAX
UniProt Synonym Gene Names	TRAX
UniProt Entry Name	TSNAX_HUMAN
NCBI Protein Information	translin-associated protein X
NCBI Summary for TSNAX	This gene encodes a protein which specifically interacts with translin, a DNA-binding protein that binds consensus sequences at breakpoint junctions of chromosomal translocations. The encoded protein contains bipartite nuclear targeting sequences that may provide nuclear transport for translin, which lacks any nuclear targeting motifs. [provided by RefSeq, Jul 2008]
UniProt Comments for TSNAX	TSNAX: Acts in combination with TSN as an endonuclease involved in the activation of the RNA-induced silencing complex (RISC). Possible role in spermatogenesis. Belongs to the translin family. Protein type: DNA-binding; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 1q42.1 Cellular Component: Golgi apparatus; perinuclear region of cytoplasm; cytoplasm; cytosol; nucleus Molecular Function: endoribonuclease activity; DNA binding; sequence-specific DNA binding; metal ion binding; protein transporter activity; single-stranded DNA binding Biological Process: protein transport; multicellular organismal development; spermatogenesis; gene expression; cell differentiation
Research Articles on TSNAX	**1.** TSNAX protein is known to form a brain enriched complex with translin, that can bind single-stranded DNA and RNA through which it is involved in protein regulation.
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