FBXL21 siRNA – F-Box/LRR-Repeat Protein 21 (Human)

PRODUCT OVERVIEW

Product Name	FBXL21, siRNA
Full Product Name	FBXL21 siRNA (Human)
Product Gene Name	FBXL21 sirna
Product Synonym Names	FBL21; FBL3; FBXL3B; FBXL3P; F-box/LRR-repeat protein 21; F-box and leucine-rich repeat protein 21; F-box and leucine-rich repeat protein 3B; F-box/LRR-repeat protein 3B
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	FBXL21 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	49,152 Da
OMIM	609087
3D Structure	ModBase 3D Structure for Q9UKT6
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 FBXL21 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 FBXL21 sirna	RNA Interference (RNAi)
Related Product Information for FBXL21 sirna	MBS8233067 is an siRNA targeting FBXL21. Also known as FBXL21 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit FBXL21 expression using RNA interference
Other Notes	Small volumes of FBXL21 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 FBXL21. It may not necessarily be applicable to this product.

NCBI GI #	148922963
NCBI GeneID	26223
NCBI Accession #	NP_036291.2
UniProt Primary Accession #	Q9UKT6
UniProt Related Accession #	Q9UKT6
GenBank Nucleotide #	NM_012159.4
NCBI Official Full Name	F-box/LRR-repeat protein 21
NCBI Official Synonym Full Names	F-box and leucine-rich repeat protein 21 (gene/pseudogene)
NCBI Official Symbol	FBXL21
NCBI Official Synonym Symbols	FBL3B; Fbl21; FBXL3B; FBXL3P
UniProt Protein Name	F-box/LRR-repeat protein 21
UniProt Synonym Protein Names	F-box and leucine-rich repeat protein 21; F-box and leucine-rich repeat protein 3B; F-box/LRR-repeat protein 3B
Protein Family	F-box/LRR-repeat protein
UniProt Gene Name	FBXL21
UniProt Synonym Gene Names	FBL21; FBL3; FBXL3B; FBXL3P
UniProt Entry Name	FXL21_HUMAN
NCBI Protein Information	F-box/LRR-repeat protein 21
NCBI Summary for FBXL21	This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbls class and, in addition to an F-box, contains 6 tandem leucine-rich repeats. The amino acid sequence of this protein is highly similar to that of f-box and leucine-rich repeat protein 3A. An allelic polymorphism in this gene results in both coding and non-coding variants; the reference genome represents the non-coding allele. [provided by RefSeq, Jul 2015]
UniProt Comments for FBXL21	FBXL21: Substrate-recognition component of some SCF (SKP1-CUL1- F-box protein)-type E3 ubiquitin ligase complex involved in circadian pacemaker function. The SCF(FBXL21) complex acts by mediating ubiquitination and subsequent degradation of CRY1. Probable clock-controlled protein that plays a specific role in suprachiasmatic nucleus, SCN and pacemaker function. Chromosomal Location of Human Ortholog: 5q31 Cellular Component: SCF ubiquitin ligase complex; cytosol; nucleus; ubiquitin ligase complex Molecular Function: ubiquitin-protein ligase activity Biological Process: rhythmic process; protein ubiquitination; entrainment of circadian clock by photoperiod
Research Articles on FBXL21	**1.** Using both family and case-control samples, consistent associations in and around FBXL21 gene suggested that FBXL21 may be associated with schizophrenia in the Irish samples.
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