AFF3 siRNA – AF4/FMR2 Family Member 3 Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	AFF3, siRNA
Full Product Name	AFF3 siRNA (Human)
Product Gene Name	AFF3 sirna
Product Synonym Names	LAF4; AF4/FMR2 family member 3; Lymphoid nuclear protein related to AF4; Protein LAF-4
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	AFF3 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	136,352 Da
OMIM	601464
3D Structure	ModBase 3D Structure for P51826
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 AFF3 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 AFF3 sirna	RNA Interference (RNAi)
Related Product Information for AFF3 sirna	MBS8208689 is an siRNA targeting AFF3. Also known as AFF3 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit AFF3 expression using RNA interference
Other Notes	Small volumes of AFF3 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 AFF3. It may not necessarily be applicable to this product.

NCBI GI #	68348716
NCBI GeneID	3899
NCBI Accession #	NP_001020279.1
UniProt Primary Accession #	P51826
UniProt Secondary Accession #	Q53RD6; Q53S47; Q53SI6; Q53TB9; Q59F27; Q8IWJ5; B7ZM46; B9EGL9; D3DVI6
UniProt Related Accession #	P51826
GenBank Nucleotide #	NM_001025108.1
NCBI Official Full Name	AF4/FMR2 family member 3 isoform 2
NCBI Official Synonym Full Names	AF4/FMR2 family, member 3
NCBI Official Symbol	AFF3
NCBI Official Synonym Symbols	LAF4; MLLT2-like
UniProt Protein Name	AF4/FMR2 family member 3
UniProt Synonym Protein Names	Lymphoid nuclear protein related to AF4; Protein LAF-4
Protein Family	AF4/FMR2 family
UniProt Gene Name	AFF3
UniProt Synonym Gene Names	LAF4; Protein LAF-4
UniProt Entry Name	AFF3_HUMAN
NCBI Protein Information	AF4/FMR2 family member 3
NCBI Summary for AFF3	This gene encodes a tissue-restricted nuclear transcriptional activator that is preferentially expressed in lymphoid tissue. Isolation of this protein initially defined a highly conserved LAF4/MLLT2 gene family of nuclear transcription factors that may function in lymphoid development and oncogenesis. In some ALL patients, this gene has been found fused to the gene for MLL. Multiple alternatively spliced transcript variants that encode different proteins have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for AFF3	AFF3: Putative transcription activator that may function in lymphoid development and oncogenesis. Binds, in vitro, to double- stranded DNA. Belongs to the AF4 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor Chromosomal Location of Human Ortholog: 2q11.2-q12 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: double-stranded DNA binding Biological Process: transcription, DNA-dependent; regulation of transcription, DNA-dependent; embryonic hindlimb morphogenesis
Research Articles on AFF3	**1.** FRA2A-expressing individuals have mosaic expansions of the AFF3 CGG repeat.
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