MEAF6 siRNA – Chromatin Modification-Related Protein MEAF6 Isoform 2 (Human)

PRODUCT OVERVIEW

Product Name	MEAF6, siRNA
Full Product Name	MEAF6 siRNA (Human)
Product Gene Name	MEAF6 sirna
Product Synonym Names	C1orf149; EAF6; Chromatin modification-related protein MEAF6; MYST/Esa1-associated factor 6; Esa1-associated factor 6 homolog; Protein EAF6 homolog; hEAF6; Sarcoma antigen NY-SAR-91
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MEAF6 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	21,709 Da
OMIM	611001
3D Structure	ModBase 3D Structure for Q9HAF1
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 MEAF6 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 MEAF6 sirna	RNA Interference (RNAi)
Related Product Information for MEAF6 sirna	MBS829804 is an siRNA targeting MEAF6. Also known as MEAF6 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit MEAF6 expression using RNA interference
Other Notes	Small volumes of MEAF6 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 MEAF6. It may not necessarily be applicable to this product.

NCBI GI #	400153656
NCBI GeneID	64769
NCBI Accession #	NP_001257804.1
UniProt Primary Accession #	Q9HAF1
UniProt Secondary Accession #	Q4F967; Q7Z311; Q86WE3; B1AK64
UniProt Related Accession #	Q9HAF1
GenBank Nucleotide #	NM_001270875.1
NCBI Official Full Name	chromatin modification-related protein MEAF6 isoform 2
NCBI Official Synonym Full Names	MYST/Esa1-associated factor 6
NCBI Official Symbol	MEAF6
NCBI Official Synonym Symbols	EAF6; CENP-28; C1orf149; NY-SAR-91
UniProt Protein Name	Chromatin modification-related protein MEAF6
UniProt Synonym Protein Names	Esa1-associated factor 6 homolog; Protein EAF6 homolog; hEAF6; Sarcoma antigen NY-SAR-91
Protein Family	Chromatin modification-related protein
UniProt Gene Name	MEAF6
UniProt Synonym Gene Names	C1orf149; EAF6; MYST/Esa1-associated factor 6; Protein EAF6 homolog; hEAF6
UniProt Entry Name	EAF6_HUMAN
NCBI Protein Information	chromatin modification-related protein MEAF6
NCBI Summary for MEAF6	This gene encodes a nuclear protein involved in transcriptional activation. The encoded protein may form a component of several different histone acetyltransferase complexes. There is a pseudogene for this gene on chromosome 2. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]
UniProt Comments for MEAF6	MEAF6: 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. Component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. Component of the MOZ/MORF complex which has a histone H3 acetyltransferase activity. Belongs to the EAF6 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Nucleolus; Unknown function Chromosomal Location of Human Ortholog: 1p35.3-p33 Cellular Component: nucleoplasm; centrosome; NuA4 histone acetyltransferase complex; cytoplasm; nucleolus Molecular Function: protein binding Biological Process: establishment and/or maintenance of chromatin architecture; regulation of transcription, DNA-dependent; transcription, DNA-dependent
Research Articles on MEAF6	**1.** present two more ESS with MEAF6/PHF1 detected by transcriptome sequencing (case 1) and RT-PCR (case 2), proving that this fusion is recurrent in ESS
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