HOXA4 siRNA – Homeobox Protein Hox-A4 (Human)

PRODUCT OVERVIEW

Product Name	HOXA4, siRNA
Full Product Name	HOXA4 siRNA (Human)
Product Gene Name	HOXA4 sirna
Product Synonym Names	HOX1D; Homeobox protein Hox-A4; Homeobox protein Hox-1.4; Homeobox protein Hox-1D
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	HOXA4 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	34,499 Da
OMIM	142953
3D Structure	ModBase 3D Structure for Q00056
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 HOXA4 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 HOXA4 sirna	RNA Interference (RNAi)
Related Product Information for HOXA4 sirna	MBS8239104 is an siRNA targeting HOXA4. Also known as HOXA4 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit HOXA4 expression using RNA interference
Other Notes	Small volumes of HOXA4 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 HOXA4. It may not necessarily be applicable to this product.

NCBI GI #	148613882
NCBI GeneID	3201
NCBI Accession #	NP_002132.3
UniProt Primary Accession #	Q00056
UniProt Secondary Accession #	O43366; A4D180
UniProt Related Accession #	Q00056
GenBank Nucleotide #	NM_002141.4
NCBI Official Full Name	homeobox protein Hox-A4
NCBI Official Synonym Full Names	homeobox A4
NCBI Official Symbol	HOXA4
NCBI Official Synonym Symbols	HOX1; HOX1D
UniProt Protein Name	Homeobox protein Hox-A4
UniProt Synonym Protein Names	Homeobox protein Hox-1.4; Homeobox protein Hox-1D
Protein Family	Homeobox protein
UniProt Gene Name	HOXA4
UniProt Synonym Gene Names	HOX1D
UniProt Entry Name	HXA4_HUMAN
NCBI Protein Information	homeobox protein Hox-A4
NCBI Summary for HOXA4	In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor which may regulate gene expression, morphogenesis, and differentiation. [provided by RefSeq, Jul 2008]
UniProt Comments for HOXA4	HOXA4: Sequence-specific transcription factor which is part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. Binds to sites in the 5'-flanking sequence of its coding region with various affinities. The consensus sequences of the high and low affinity binding sites are 5'-TAATGA[CG]-3' and 5'-CTAATTTT- 3'. Belongs to the Antp homeobox family. Deformed subfamily. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 7p15.2 Cellular Component: nucleus Molecular Function: sequence-specific DNA binding; transcription factor activity Biological Process: anterior/posterior pattern formation; anatomical structure morphogenesis; regulation of transcription, DNA-dependent; transcription, DNA-dependent; embryonic skeletal morphogenesis
Research Articles on HOXA4	**1.** promoter hypermethylation of HOXA4 gene could be an epigenetic mechanism mediating IM resistance in CML patients.
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