MS4A3 siRNA – Membrane-Spanning 4-Domains Subfamily A Member 3 Isoform C (Human)

PRODUCT OVERVIEW

Product Name	MS4A3, siRNA
Full Product Name	MS4A3 siRNA (Human)
Product Gene Name	MS4A3 sirna
Product Synonym Names	CD20L; HTM4; Membrane-spanning 4-domains subfamily A member 3; CD20 antigen-like protein; Hematopoietic-specific transmembrane protein 4; HTm4
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MS4A3 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	9,625 Da
OMIM	606498
3D Structure	ModBase 3D Structure for Q96HJ5
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 MS4A3 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 MS4A3 sirna	RNA Interference (RNAi)
Related Product Information for MS4A3 sirna	MBS8218308 is an siRNA targeting MS4A3. Also known as MS4A3 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit MS4A3 expression using RNA interference
Other Notes	Small volumes of MS4A3 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 MS4A3. It may not necessarily be applicable to this product.

NCBI GI #	73486651
NCBI GeneID	932
NCBI Accession #	NP_001026836.1
UniProt Primary Accession #	Q96HJ5
UniProt Secondary Accession #	Q8NHW2; A8MTP8
UniProt Related Accession #	Q96HJ5
GenBank Nucleotide #	NM_001031666.1
NCBI Official Full Name	membrane-spanning 4-domains subfamily A member 3 isoform c
NCBI Official Synonym Full Names	membrane-spanning 4-domains, subfamily A, member 3 (hematopoietic cell-specific)
NCBI Official Symbol	MS4A3
NCBI Official Synonym Symbols	HTM4; CD20L
UniProt Protein Name	Membrane-spanning 4-domains subfamily A member 3
UniProt Synonym Protein Names	CD20 antigen-like protein; Hematopoietic-specific transmembrane protein 4; HTm4
Protein Family	Membrane-spanning 4-domains subfamily
UniProt Gene Name	MS4A3
UniProt Synonym Gene Names	CD20L; HTM4; HTm4
UniProt Entry Name	MS4A3_HUMAN
NCBI Protein Information	membrane-spanning 4-domains subfamily A member 3
NCBI Summary for MS4A3	This gene encodes a member of the membrane-spanning 4A gene family. Members of this protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. This family member likely plays a role in signal transduction and may function as a subunit associated with receptor complexes. The gene encoding this protein is localized to 11q12, among a cluster of related family members. Alternative splicing may result in multiple transcript variants; however, not all variants have been fully described. [provided by RefSeq, Jul 2008]
UniProt Comments for MS4A3	MS4A3: Hematopoietic modulator for the G1-S cell cycle transition. Modulates the level of phosphorylation of cyclin-dependent kinase 2 (CDK2) through its direct binding to cyclin- dependent kinase inhibitor 3 (CDKN3/KAP). Belongs to the MS4A family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 11q12.1 Cellular Component: perinuclear region of cytoplasm; integral to membrane; endomembrane system Molecular Function: protein binding Biological Process: regulation of cell cycle
Research Articles on MS4A3	**1.** The C-terminal domain is important for the function of HTm4 in cell cycle regulation.
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