MS4A5 siRNA – Membrane-Spanning 4-Domains Subfamily A Member 5 (Human)

PRODUCT OVERVIEW

Product Name	MS4A5, siRNA
Full Product Name	MS4A5 siRNA (Human)
Product Gene Name	MS4A5 sirna
Product Synonym Names	CD20L2; TETM4; Membrane-spanning 4-domains subfamily A member 5; CD20 antigen-like 2; Testis-expressed transmembrane protein 4
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MS4A5 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	22,283 Da
OMIM	606499
3D Structure	ModBase 3D Structure for Q9H3V2
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 MS4A5 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 MS4A5 sirna	RNA Interference (RNAi)
Related Product Information for MS4A5 sirna	MBS8203428 is an siRNA targeting MS4A5. Also known as MS4A5 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit MS4A5 expression using RNA interference
Other Notes	Small volumes of MS4A5 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 MS4A5. It may not necessarily be applicable to this product.

NCBI GI #	23110997
NCBI GeneID	64232
NCBI Accession #	NP_076434.2
UniProt Primary Accession #	Q9H3V2
UniProt Secondary Accession #	Q9BZH1
UniProt Related Accession #	Q9H3V2
GenBank Nucleotide #	NM_023945.2
NCBI Official Full Name	membrane-spanning 4-domains subfamily A member 5
NCBI Official Synonym Full Names	membrane-spanning 4-domains, subfamily A, member 5
NCBI Official Symbol	MS4A5
NCBI Official Synonym Symbols	TETM4; CD20L2; CD20-L2
UniProt Protein Name	Membrane-spanning 4-domains subfamily A member 5
UniProt Synonym Protein Names	CD20 antigen-like 2; Testis-expressed transmembrane protein 4
Protein Family	Membrane-spanning 4-domains subfamily
UniProt Gene Name	MS4A5
UniProt Synonym Gene Names	CD20L2; TETM4
UniProt Entry Name	MS4A5_HUMAN
NCBI Protein Information	membrane-spanning 4-domains subfamily A member 5
NCBI Summary for MS4A5	This gene encodes a member of the membrane-spanning 4A gene family. Members of this nascent 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. Though this member is not expressed in hematopoietic cells specifically, it may be involved in signal transduction like many of its related family members. The gene encoding this protein is localized to 11q12, among a cluster of family members. [provided by RefSeq, Jul 2008]
UniProt Comments for MS4A5	MS4A5: May be involved in signal transduction as a component of a multimeric receptor complex. Belongs to the MS4A family. Protein type: Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 11q12 Cellular Component: integral to membrane
Research Articles on MS4A5	**1.** Observational study of gene-disease association. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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