DEFA-RS2 siRNA – Alpha-Defensin-Related Sequence 2 (Mouse)

PRODUCT OVERVIEW

Product Name	DEFA-RS2, siRNA
Full Product Name	DEFA-RS2 siRNA (Mouse)
Product Gene Name	DEFA-RS2 sirna
Product Synonym Names	DEFCR-RS2; Alpha-defensin-related sequence 2; CRS4C1; Cryptdin-related protein 4C-1; Defensin-related cryptdin-related sequence 2
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	DEFA-RS2 siRNA (Mouse) 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	9,980 Da
3D Structure	ModBase 3D Structure for P17534
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 mouse DEFA-RS2 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 DEFA-RS2 sirna	RNA Interference (RNAi)
Related Product Information for DEFA-RS2 sirna	MBS8211757 is an siRNA targeting DEFA-RS2. Also known as DEFA-RS2 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit DEFA-RS2 expression using RNA interference
Other Notes	Small volumes of DEFA-RS2 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 DEFA-RS2. It may not necessarily be applicable to this product.

NCBI GI #	6681169
NCBI GeneID	13222
NCBI Accession #	NP_031873.1
UniProt Primary Accession #	P17534
UniProt Secondary Accession #	Q64111
UniProt Related Accession #	P17534
GenBank Nucleotide #	NM_007847.1
NCBI Official Full Name	alpha-defensin-related sequence 2
NCBI Official Synonym Full Names	defensin, alpha, related sequence 2
NCBI Official Symbol	Defa-rs2
NCBI Official Synonym Symbols	CRS4C; CRS4C-1; CRS4C1d; CRS4C1e; CRS4C1f; CRS4C1g; CRS4C1h; CRS4C1i; CRS4C1j; Defcr-rs2; Defcr-rs3
UniProt Protein Name	Alpha-defensin-related sequence 2
UniProt Synonym Protein Names	CRS4C1; Cryptdin-related protein 4C-1; Defensin-related cryptdin-related sequence 2
Protein Family	Alpha-defensin-related sequence
UniProt Gene Name	Defa-rs2
UniProt Synonym Gene Names	Defcr-rs2
UniProt Entry Name	DFAR2_MOUSE
NCBI Protein Information	alpha-defensin-related sequence 2
UniProt Comments for DEFA-RS2	Apparent precursor of a secreted, cationic, proline- and cysteine-rich peptide that contains Cys-Pro-Xaa repeats. Unlike cryptdin, the proposed mature peptide region lacks the structural motif characteristic of defensins. It may have microbicidal activities.
Research Articles on DEFA-RS2	**1.** Data show that in ileitis-prone mice, Paneth cell levels of CRS4C mRNAs and peptides are induced more than a 1000-fold relative to non-prone strains as early as 4 weeks of age.
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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