USP6 siRNA – Ubiquitin Carboxyl-Terminal Hydrolase 6 (Human)

PRODUCT OVERVIEW

Product Name	USP6, siRNA
Full Product Name	USP6 siRNA (Human)
Product Gene Name	USP6 sirna
Product Synonym Names	HRP1; TRE2; Ubiquitin carboxyl-terminal hydrolase 6; Deubiquitinating enzyme 6; Proto-oncogene TRE-2; Ubiquitin thioesterase 6; Ubiquitin-specific-processing protease 6
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	USP6 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	89,577 Da
OMIM	604334
3D Structure	ModBase 3D Structure for P35125
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 USP6 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 USP6 sirna	RNA Interference (RNAi)
Related Product Information for USP6 sirna	MBS8202056 is an siRNA targeting USP6. Also known as USP6 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit USP6 expression using RNA interference
Other Notes	Small volumes of USP6 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 USP6. It may not necessarily be applicable to this product.

NCBI GI #	747165331
NCBI GeneID	9098
NCBI Accession #	NP_001291213.1
UniProt Primary Accession #	P35125
UniProt Secondary Accession #	Q15634; Q86WP6; Q8IWT4
UniProt Related Accession #	P35125
GenBank Nucleotide #	NM_001304284.1
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 6
NCBI Official Synonym Full Names	ubiquitin specific peptidase 6
NCBI Official Symbol	USP6
NCBI Official Synonym Symbols	HRP1; TRE2; TRE17; Tre-2; TRESMCR; USP6-short
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 6
UniProt Synonym Protein Names	Deubiquitinating enzyme 6; Proto-oncogene TRE-2; Ubiquitin thioesterase 6; Ubiquitin-specific-processing protease 6
Protein Family	USP6 N-terminal-like protein
UniProt Gene Name	USP6
UniProt Synonym Gene Names	HRP1; TRE2
UniProt Entry Name	UBP6_HUMAN
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 6
UniProt Comments for USP6	USP6: Deubiquitinase with an ATP-independent isopeptidase activity, cleaving at the C-terminus of the ubiquitin moiety. Catalyzes its own deubiquitination. In vitro, isoform 2, but not isoform 3, shows deubiquitinating activity. Promotes plasma membrane localization of ARF6 and selectively regulates ARF6- dependent endocytic protein trafficking. Is able to initiate tumorigenesis by inducing the production of matrix metalloproteinases following NF-kappa-B activation. A chromosomal aberration involving USP6 is a common genetic feature of aneurysmal bone cyst, a benign osseous neoplasm. Translocation t(16;17)(q22;p13) with CDH11. The translocation generates a fusion gene in which the strong CDH11 promoter is fused to the entire USP6 coding sequence, resulting in USP6 transcriptional up-regulation. Belongs to the peptidase C19 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Oncoprotein; EC 3.4.19.12; Ubiquitin-specific protease; Protease Chromosomal Location of Human Ortholog: 17p13 Cellular Component: recycling endosome; lysosome; cytoplasm; plasma membrane Molecular Function: calmodulin binding; protein binding; nucleic acid binding; cysteine-type endopeptidase activity; ubiquitin-specific protease activity Biological Process: proteasomal ubiquitin-dependent protein catabolic process; protein deubiquitination; protein modification process
Research Articles on USP6	**1.** 8 of the 9 giant cell reparative granulomas from hands and feet showed rearrangements of the USP6 gene compared with none of 8 gnathic lesions
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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