UBR7 siRNA – Putative E3 Ubiquitin-Protein Ligase UBR7 (Human)

PRODUCT OVERVIEW

Product Name	UBR7, siRNA
Full Product Name	UBR7 siRNA (Human)
Product Gene Name	UBR7 sirna
Product Synonym Names	C14orf130; Putative E3 ubiquitin-protein ligase UBR7; N-recognin-7
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	UBR7 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	47,999 Da
OMIM	613816
3D Structure	ModBase 3D Structure for Q8N806
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 UBR7 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 UBR7 sirna	RNA Interference (RNAi)
Related Product Information for UBR7 sirna	MBS8229190 is an siRNA targeting UBR7. Also known as UBR7 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit UBR7 expression using RNA interference
Other Notes	Small volumes of UBR7 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 UBR7. It may not necessarily be applicable to this product.

NCBI GI #	154426322
NCBI GeneID	55148
NCBI Accession #	NP_786924.2
UniProt Primary Accession #	Q8N806
UniProt Secondary Accession #	Q86U21; Q86UA9; Q96BY0; Q9NVV6
UniProt Related Accession #	Q8N806
GenBank Nucleotide #	NM_175748.3
NCBI Official Full Name	putative E3 ubiquitin-protein ligase UBR7
NCBI Official Synonym Full Names	ubiquitin protein ligase E3 component n-recognin 7 (putative)
NCBI Official Symbol	UBR7
NCBI Official Synonym Symbols	C14orf130
UniProt Protein Name	Putative E3 ubiquitin-protein ligase UBR7
UniProt Synonym Protein Names	N-recognin-7
Protein Family	Putative E3 ubiquitin-protein ligase
UniProt Gene Name	UBR7
UniProt Synonym Gene Names	C14orf130
UniProt Entry Name	UBR7_HUMAN
NCBI Protein Information	putative E3 ubiquitin-protein ligase UBR7
UniProt Comments for UBR7	UBR7: E3 ubiquitin-protein ligase which is a component of the N-end rule pathway. Recognizes and binds to proteins bearing specific N-terminal residues that are destabilizing according to the N-end rule, leading to their ubiquitination and subsequent degradation. Protein type: Ubiquitin ligase; EC 6.3.2.19; EC 6.3.2.-; Ubiquitin conjugating system; Ligase Chromosomal Location of Human Ortholog: 14q32.12 Molecular Function: zinc ion binding; ligase activity Biological Process: protein ubiquitination
Research Articles on UBR7	**1.** These data provide the first evidence of ubiquitin ligase activity in mammalian spermatozoa and indicate UBR7 involvement in spermiogenesis.
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