RNF144A siRNA – E3 Ubiquitin-Protein Ligase RNF144A (Mouse)

PRODUCT OVERVIEW

Product Name	RNF144A, siRNA
Full Product Name	RNF144A siRNA (Mouse)
Product Gene Name	RNF144A sirna
Product Synonym Names	KIAA0161; RNF144; UBCE7IP4; UIP4; Probable E3 ubiquitin-protein ligase RNF144A; RING finger protein 144A; UbcM4-interacting protein 4; Ubiquitin-conjugating enzyme 7-interacting protein 4
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	RNF144A 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	32,845 Da
3D Structure	ModBase 3D Structure for Q925F3
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 RNF144A 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 RNF144A sirna	RNA Interference (RNAi)
Related Product Information for RNF144A sirna	MBS8210308 is an siRNA targeting RNF144A. Also known as RNF144A siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit RNF144A expression using RNA interference
Other Notes	Small volumes of RNF144A 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 RNF144A. It may not necessarily be applicable to this product.

NCBI GI #	126517494
NCBI GeneID	108089
NCBI Accession #	NP_001075446.1
UniProt Primary Accession #	Q925F3
UniProt Secondary Accession #	Q3UZZ0; Q6A0B4
UniProt Related Accession #	Q925F3
GenBank Nucleotide #	NM_001081977.2
NCBI Official Full Name	E3 ubiquitin-protein ligase RNF144A
NCBI Official Synonym Full Names	ring finger protein 144A
NCBI Official Symbol	Rnf144a
NCBI Official Synonym Symbols	UIP4; Rnf144; Ubce7ip4
UniProt Protein Name	E3 ubiquitin-protein ligase RNF144A
UniProt Synonym Protein Names	RING finger protein 144A; UbcM4-interacting protein 4; Ubiquitin-conjugating enzyme 7-interacting protein 4
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	Rnf144a
UniProt Synonym Gene Names	Kiaa0161; Rnf144; Ubce7ip4; Uip4
UniProt Entry Name	R144A_MOUSE
NCBI Protein Information	E3 ubiquitin-protein ligase RNF144A
UniProt Comments for RNF144A	RNF144A: E3 ubiquitin-protein ligase which accepts ubiquitin from E2 ubiquitin-conjugating enzymes UBE2L3 and UBE2L6 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Belongs to the RBR family. RNF144 subfamily. Protein type: Ligase; Ubiquitin ligase; EC 6.3.2.19; Membrane protein, integral; Ubiquitin conjugating system; EC 6.3.2.- Cellular Component: Golgi apparatus; membrane; plasma membrane; integral to membrane; cytoplasmic vesicle Molecular Function: zinc ion binding; coenzyme F420-2 alpha-glutamyl ligase activity; UDP-N-acetylmuramoylalanyl-D-glutamyl-2,6-diaminopimelate-D-alanyl-D-alanine ligase activity; metal ion binding; ribosomal S6-glutamic acid ligase activity; coenzyme F420-0 gamma-glutamyl ligase activity; ligase activity
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