FCF1 siRNA – Rrna-Processing Protein FCF1 Homolog (Human)

PRODUCT OVERVIEW

Product Name	FCF1, siRNA
Full Product Name	FCF1 siRNA (Human)
Product Gene Name	FCF1 sirna
Product Synonym Names	C14orf111; rRNA-processing protein FCF1 homolog
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	FCF1 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	23,370 Da
3D Structure	ModBase 3D Structure for Q9Y324
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 FCF1 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 FCF1 sirna	RNA Interference (RNAi)
Related Product Information for FCF1 sirna	MBS8220425 is an siRNA targeting FCF1. Also known as FCF1 siRNA (Human). Reactive in Human. Host: Synthetic. siRNA to inhibit FCF1 expression using RNA interference
Other Notes	Small volumes of FCF1 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 FCF1. It may not necessarily be applicable to this product.

NCBI GI #	7705730

NCBI GeneID	51077
NCBI Accession #	NP_057046.1
UniProt Primary Accession #	Q9Y324
UniProt Secondary Accession #	Q86TW8; Q8TBL8
UniProt Related Accession #	Q9Y324
GenBank Nucleotide #	NM_015962.4
NCBI Official Full Name	rRNA-processing protein FCF1 homolog
NCBI Official Synonym Full Names	FCF1 rRNA-processing protein
NCBI Official Symbol	FCF1
NCBI Official Synonym Symbols	Bka; UTP24; CGI-35; C14orf111
UniProt Protein Name	rRNA-processing protein FCF1 homolog
Protein Family	dTDP-4-dehydro-6-deoxyglucose reductase
UniProt Gene Name	FCF1
UniProt Synonym Gene Names	C14orf111
UniProt Entry Name	FCF1_HUMAN
NCBI Protein Information	rRNA-processing protein FCF1 homolog
UniProt Comments for FCF1	FCF1: Essential protein involved in pre-rRNA processing and 40S ribosomal subunit assembly. Belongs to the UTP23/FCF1 family. FCF1 subfamily. Protein type: Nucleolus Chromosomal Location of Human Ortholog: 14q24.3 Cellular Component: small subunit processome; nucleolus Biological Process: maturation of SSU-rRNA from tricistronic rRNA transcript (SSU-rRNA, 5.8S rRNA, LSU-rRNA)
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