MAU2 siRNA – MAU2 Chromatid Cohesion Factor Homolog Isoform 1 (Mouse)

PRODUCT OVERVIEW

Product Name	MAU2, siRNA
Full Product Name	MAU2 siRNA (Mouse)
Product Gene Name	MAU2 sirna
Product Synonym Names	KIAA0892; MAU2 chromatid cohesion factor homolog; MAU-2; Cohesin loading complex subunit SCC4 homolog
Host	Synthetic
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Purity/Purification	> 97%
Specificity	MAU2 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	69,480 Da
3D Structure	ModBase 3D Structure for Q9D2X5
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 MAU2 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 MAU2 sirna	RNA Interference (RNAi)
Related Product Information for MAU2 sirna	MBS8233470 is an siRNA targeting MAU2. Also known as MAU2 siRNA (Mouse). Reactive in Mouse. Host: Synthetic. siRNA to inhibit MAU2 expression using RNA interference
Other Notes	Small volumes of MAU2 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 MAU2. It may not necessarily be applicable to this product.

NCBI GI #	269308215

NCBI GeneID	74549
NCBI Accession #	NP_001161411.1
UniProt Primary Accession #	Q9D2X5
UniProt Secondary Accession #	Q059Q4; Q5DU12; Q78IR4; Q8BUW9; Q8BX04; B7ZN38
UniProt Related Accession #	Q9D2X5
GenBank Nucleotide #	NM_001167939.1
NCBI Official Full Name	MAU2 chromatid cohesion factor homolog isoform 1
NCBI Official Synonym Full Names	MAU2 chromatid cohesion factor homolog (C. elegans)
NCBI Official Symbol	Mau2
NCBI Official Synonym Symbols	Mau-2; C77863; C79014; mKIAA0892; 9130404D08Rik; A930019L04Rik
UniProt Protein Name	MAU2 chromatid cohesion factor homolog
UniProt Synonym Protein Names	Cohesin loading complex subunit SCC4 homolog
Protein Family	MAU2 chromatid cohesion factor
UniProt Gene Name	Mau2
UniProt Synonym Gene Names	Kiaa0892; MAU-2
UniProt Entry Name	SCC4_MOUSE
NCBI Protein Information	MAU2 chromatid cohesion factor homolog
UniProt Comments for MAU2	MAU2: Required for association of the cohesin complex with chromatin during interphase. Plays a role in sister chromatid cohesion and normal progression through prometaphase. Belongs to the SCC4/mau-2 family. 3 isoforms of the human protein are produced by alternative splicing. Cellular Component: nucleoplasm; nucleus; chromatin Molecular Function: protein N-terminus binding Biological Process: mitosis; maintenance of mitotic sister chromatid cohesion; cell division; cell cycle; chromosome segregation
Research Articles on MAU2	**1.** Absence of Mau2 in neural crest cells causes a severe disruption of craniofacial development.
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