RANGRF cDNA Clone – RAN Guanine Nucleotide Release Factor (Human)

PRODUCT OVERVIEW

Product Name	RANGRF, cDNA Clone
Full Product Name	RANGRF cDNA Clone
Product Gene Name	RANGRF cdna clone
Sequence	atggagccca cgagagactg cccgctgttc gggggcgcct tttccgccat cctccccatg ggggccattg acgtaagcga cctccgaccg gtcccggaca atcaagaagt tttctgccat cccgtgacgg accagagcct gatagtggaa cttctcgagc tgcaggccca cgtacggggc gaagcggctg cgcggtacca ctttgaggat gttggtggcg tgcagggggc tagggctgtc catgtggagt ctgttcagcc tctcagtttg gagaacctgg ccctgagggg ccgctgtcaa gaagcctggg tcctctctgg caagcagcag atagctaagg aaaaccagca ggtgagggcc cgagagtgtg taatgtcttg gaagggcggt agcggggacg cagagatcca ggtaagcatc ctgactctga tccccttagg tagcaaagga cgtgacactt catcaggcct tgctgaggct gccccagtac cagactga
Molecular Weight	12,900 Da
OMIM	607954
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RANGRF cdna clone	MBS1267207 is a cDNA clone targeting RANGRF.
Other Notes	Small volumes of RANGRF cdna clone 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 RANGRF. It may not necessarily be applicable to this product.

NCBI GI #	15214827
NCBI GeneID	29098
NCBI Accession #	BC012552
UniProt Secondary Accession #	Q68DI3; Q9BR68; Q9HD48; Q9NRU9; Q9P001; Q9P0P2; D3DTR6
UniProt Related Accession #	Q9HD47
NCBI Official Full Name	Homo sapiens RAN guanine nucleotide release factor, mRNA
NCBI Official Synonym Full Names	RAN guanine nucleotide release factor
NCBI Official Symbol	RANGRF
NCBI Official Synonym Symbols	MOG1; HSPC165; HSPC236; RANGNRF
UniProt Protein Name	Ran guanine nucleotide release factor
UniProt Synonym Protein Names	Ran-binding protein MOG1
Protein Family	Ran guanine nucleotide release factor
UniProt Gene Name	RANGRF

UniProt Synonym Gene Names	MOG1; RANGNRF; RanGNRF
UniProt Entry Name	MOG1_HUMAN
NCBI Protein Information	ran guanine nucleotide release factor
NCBI Summary for RANGRF	This gene encodes a protein that has been shown to function as a guanine nucleotide release factor in mouse and to regulate the expression and function of the Nav1.5 cardiac sodium channel in human. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2010]
UniProt Comments for RANGRF	RANGRF: May regulate the intracellular trafficking of RAN. In cardiac cells seems to regulate the cell surface localization of SCN5A. Belongs to the MOG1 family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: GEFs; GEFs, misc. Chromosomal Location of Human Ortholog: 17p13.1 Cellular Component: caveola; cytoplasm; nucleoplasm; nucleus; plasma membrane; rough endoplasmic reticulum Molecular Function: guanyl-nucleotide exchange factor activity; protein transporter activity; Ran GTPase binding; Ran guanyl-nucleotide exchange factor activity; sodium channel regulator activity Biological Process: ER to Golgi vesicle-mediated transport; positive regulation of GTPase activity; protein exit from endoplasmic reticulum; regulation of heart rate; regulation of membrane potential
Research Articles on RANGRF	**1.** Suggest that p.E61X_RANGRF is a rare genetic variation with an uncertain role in Brugada Syndrome.
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