RHOQ cDNA Clone – Ras Homolog Gene Family, Member Q (Human)

PRODUCT OVERVIEW

Product Name	RHOQ, cDNA Clone
Full Product Name	RHOQ cDNA Clone
Product Gene Name	RHOQ cdna clone
Sequence	ATGGCTCACG GGCCCGGCGC GCTGATGCTC AAGTGCGTGG TGGTCGGCGA CGGGGCGGTG GGCAAGACGT GCCTACTCAT GAGCTATGCC AACGACGCCT TCCCGGAGGA GTACGTGCCC ACCGTCTTCG ACCACTACGC AGTCAGCGTC ACCGTGGGGG GCAAGCAGTA CCTCCTAGGA CTCTATGACA CGGCCGGACA GGAAGACTAT GACCGTCTGA GGCCTTTATC TTACCCAATG ACCGATGTCT TCCTTATATG CTTCTCGGTG GTAAATCCAG CCTCATTTCA AAATGTGAAA GAGGAGTGGG TACCGGAACT TAAGGAATAC GCACCAAATG TACCCTTTTT ATTAATAGGA ACTCAGATTG ATCTCCGAGA TGACCCCAAA ACTTTAGCAA GACTGAATGA TATGAAAGAA AAACCTATAT GTGTGGAACA AGGACAGAAA CTAGCAAAAG AGATAGGAGC ATGCTGCTAT GTGGAATGTT CAGCTTTAAC CCAGAAGGGA TTGAAGACTG TTTTTGATGA GGCTATCATA GCCATTTTAA CTCCAAAGAA ACACACTGTA AAAAAAAGAA TAGGATCAAG ATGTATAAAC TGTTGTTTAA TTACGTGA
Molecular Weight	22,659 Da
OMIM	605857
Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RHOQ cdna clone	MBS1276587 is a cDNA clone targeting RHOQ.
Other Notes	Small volumes of RHOQ 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 RHOQ. It may not necessarily be applicable to this product.

NCBI GI #	33440525
NCBI GeneID	23433
NCBI Accession #	BC056154
UniProt Secondary Accession #	Q0VGN1; Q52LS8; Q53SJ1; Q6NS39; Q6P146; Q7Z480; D6W5A6
UniProt Related Accession #	P17081
NCBI Official Full Name	Homo sapiens ras homolog gene family, member Q, mRNA
NCBI Official Synonym Full Names	ras homolog family member Q
NCBI Official Symbol	RHOQ
NCBI Official Synonym Symbols	ARHQ; TC10; TC10A; RASL7A; HEL-S-42
UniProt Protein Name	Rho-related GTP-binding protein RhoQ
UniProt Synonym Protein Names	Ras-like protein TC10; Ras-like protein family member 7A
Protein Family	Rho-related GTP-binding protein

UniProt Gene Name	RHOQ
UniProt Synonym Gene Names	ARHQ; RASL7A; TC10
UniProt Entry Name	RHOQ_HUMAN
NCBI Protein Information	rho-related GTP-binding protein RhoQ
NCBI Summary for RHOQ	This gene encodes a member of the Rho family of small GTPases, which cycle between inactive GDP-bound and active GTP-bound states and function as molecular switches in signal transduction cascades. Rho proteins promote reorganization of the actin cytoskeleton and regulate cell shape, attachment, and motility. The encoded protein is an important signalling protein for sarcomere assembly and has been shown to play a significant role in the exocytosis of the solute carrier family 2, facilitated glucose transporter member 4 and other proteins, possibly acting as the signal that turns on the membrane fusion machinery. Three related pseudogene have been identified on chromosomes 2 and 14. [provided by RefSeq, Aug 2011]
UniProt Comments for RHOQ	RHOQ: Plasma membrane-associated small GTPase which cycles between an active GTP-bound and an inactive GDP-bound state. In active state binds to a variety of effector proteins to regulate cellular responses. Involved in epithelial cell polarization processes. May play a role in CFTR trafficking to the plasma membrane. Causes the formation of thin, actin-rich surface projections called filopodia. Belongs to the small GTPase superfamily. Rho family. Protein type: G protein, monomeric; G protein; Motility/polarity/chemotaxis; G protein, monomeric, Rho Chromosomal Location of Human Ortholog: 2p21 Cellular Component: actin filament; cytosol; plasma membrane Molecular Function: GBD domain binding; GTPase activity; profilin binding Biological Process: cellular response to insulin stimulus; cortical actin cytoskeleton organization and biogenesis; GTP metabolic process; insulin receptor signaling pathway; positive regulation of filopodium formation; positive regulation of glucose import; positive regulation of transcription from RNA polymerase II promoter; regulation of actin cytoskeleton organization and biogenesis; regulation of small GTPase mediated signal transduction
Research Articles on RHOQ	**1.** Exocytosis of Rab11- and L1-positive vesicles may play a central role in TC10-mediated neurite outgrowth
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