RIC8A cDNA Clone – Resistance to Inhibitors of Cholinesterase 8 Homolog A (C. Elegans) (Human)

PRODUCT OVERVIEW

Product Name	RIC8A, cDNA Clone
Full Product Name	RIC8A cDNA Clone
Product Gene Name	RIC8A cdna clone
Sequence	ATGGAGCCCC GGGCGGTTGC AGAAGCCGTG GAGACGGGTG AGGAGGATGT GATTATGGAA GCTCTGCGGT CATACAACCA GGAGCACTCC CAGAGCTTCA CGTTTGATGA TGCCCAACAG GAGGACCGGA AGAGACTGGC GGAGCTGCTG GTCTCCGTCC TGGAACAGGG CTTGCCACCC TCCCACCGTG TCATCTGGCT GCAGAGTGTC CGAATCCTGT CCCGGGACCG CAACTGCCTG GACCCGTTCA CCAGCCGCCA GAGCCTGCAG GCACTAGCCT GCTATGCTGA CATCTCTGTC TCTGAGGGGT CCGTCCCAGA GTCCGCAGAC ATGGATGTTG TACTGGAGTC CCTCAAGTGC CTGTGCAACC TCGTGCTCAG CAGCCCTGTG GCACAGATGC TGGCAGCAGA GGCCCGCCTA GTGGTGAAGC TCACAGAGCG TGTGGGGCTG TACCGTGAGA GGAGCTTCCC CCACGATGTC CAGTTCTTTG ACTTGCGGCT CCTCTTCCTG CTAACGGCAC TCCGCACCGA TGTGCGCCAG CAGCTGTTTC AGGAGCTGAA AGGAGTGCGC CTGCTAACTG ACACACTGGA GCTGACGCTG GGGGTGACTC CTGAAGGGAA CCCACCCACG CTCCTTCCTT CCCAAGAGAC TGAGCGGGCC ATGGAGATCC TCAAAGTGCT CTTCAACATC ACCCTGGACT CCATCAAGGG GGAGGTGGAC GAGGAAGACG CTGCCCTTTA CCGACACCTG GGGACCCTTC TCCGGCACTG TGTGATGATC GCTACTGCTG GAGACCGCAC AGAGGAGTTC CACGGCCACG CAGTGAACCT CCTGGGGAAC TTGCCCCTCA AGTGTCTGGA TGTTCTCCTC ACCCTGGAGC CACATGGAGA CTCCACGGAG TTCATGGGAG TGAATATGGA TGTGATTCGT GCCCTCCTCA TCTTCCTAGA GAAGCGTTTG CACAAGACAC ACAGGCTGAA GGAGAGTGTA GCTCCCGTGC TGAGCGTGCT GACTGAATGT GCCCGGATGC ACCGCCCAGC CAGGAAGTTC CTGAAGGCCC AGGTGCTGCC CCCTCTGCGG GATGTGAGGA CACGGCCTGA GGTTGGGGAG ATGCTGCGGA ACAAGCTTGT CCGCCTCATG ACACACCTGG ACACAGATGT GAAGAGGGTG GCTGCCGAGT TCTTGTTTGT CCTGTGCTCT GAGAGTGTGC CCCGATTCAT CAAGTACACA GGCTATGGGA ATGCTGCTGG CCTTCTGGCT GCCAGGGGCC TCATGGCAGG AGGCCGGCCC GAGGGCCAGT ACTCAGAGGA TGAGGACACA GACACAGATG AGTACAAGGA AGCCAAAGCC AGCATAAACC CTGTGACCGG GAGGGTGGAG GAGAAGCCGC CTAACCCTAT GGAGGGCATG ACAGAGGAGC AGAAGGAGCA CGAGGCCATG AAGCTGGTGA CCATGTTTGA CAAGCTCTCC AGGAACAGAG TCATCCAGCC AATGGGGATG AGTCCCCGGG GTCATCTTAC GTCCCTGCAG GATGCCATGT GCGAGACTAT GGAGCAGCAG CTCTCCTCGG ACCCTGACTC GGACCCTGAC TGA
Molecular Weight	59,612 Da
OMIM	609146
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 RIC8A cdna clone	MBS1269449 is a cDNA clone targeting RIC8A.
Other Notes	Small volumes of RIC8A 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 RIC8A. It may not necessarily be applicable to this product.

NCBI GI #	112292485
NCBI GeneID	60626

NCBI Accession #	BC121808
UniProt Secondary Accession #	Q0P508; Q2T9J1; Q7Z352; Q96EZ1; Q96SZ2; Q9H064; Q9H5H3; Q9H9E7
UniProt Related Accession #	Q9NPQ8
NCBI Official Full Name	Homo sapiens resistance to inhibitors of cholinesterase 8 homolog A (C. elegans), mRNA
NCBI Official Synonym Full Names	RIC8 guanine nucleotide exchange factor A
NCBI Official Symbol	RIC8A
NCBI Official Synonym Symbols	RIC8
UniProt Protein Name	Synembryn-A
UniProt Synonym Protein Names	Protein Ric-8A
Protein Family	Synembryn
UniProt Gene Name	RIC8A
UniProt Entry Name	RIC8A_HUMAN
NCBI Protein Information	synembryn-A
UniProt Comments for RIC8A	RIC8A: Guanine nucleotide exchange factor (GEF), which can activate some, but not all, G-alpha proteins. Able to activate GNAI1, GNAO1 and GNAQ, but not GNAS by exchanging bound GDP for free GTP. Involved in regulation of microtubule pulling forces during mitotic movement of chromosomes by stimulating G(i)-alpha protein, possibly leading to release G(i)-alpha-GTP and NuMA proteins from the NuMA-GPSM2-G(i)-alpha-GDP complex. Also acts as an activator for G(q)-alpha (GNAQ) protein by enhancing the G(q)-coupled receptor-mediated ERK activation. Belongs to the synembryn family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: GEFs; GEFs, misc. Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: cytoplasm; plasma membrane Molecular Function: G-protein alpha-subunit binding; GTPase activator activity; guanyl-nucleotide exchange factor activity; protein binding Biological Process: G-protein coupled receptor protein signaling pathway
Research Articles on RIC8A	**1.** Human NCS-1 and Ric8a reproduce the binding and maintain the structural requirements at these key positions. Drosophila Ric8a and Galphas regulate synapse number and neurotransmitter release, and both are functionally linked to Frq2.
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