RUSC1 cDNA Clone – RUN and SH3 Domain Containing 1 (Human)

PRODUCT OVERVIEW

Product Name	RUSC1, cDNA Clone
Full Product Name	RUSC1 cDNA Clone
Product Gene Name	RUSC1 cdna clone
Sequence	atggcagaag cccagagtgg gactggtcag ctgcaggagc agaagaaagg tcttctgata gccgtcagcg tctccgttga taaaatcatc tcgcatttcg gggccgcccg gaacttggtg cagaaggccc agttgggtga tagccggctg agcccggatg tggggcacct ggtgctgacc accctctgcc cggccctcca cgccctggtg gcggacgggc tgaagccttt ccggaaggac ctcatcaccg ggcagcgcag gagcagcccc tggagcgtgg tggaggcgtc ggtgaagcca ggctccagca cccgctccct tggaaccctg tatagccagg tcagccgtct agccccgctg agcagcagcc gtagccgctt ccatgccttt atcctgggcc tcctcaacac caagcagttg gagctgtggt tttccagtct ccaggaagat gcaggcctgc tctccctcct gtacctgcca acaggatttt tctccctggc ccgcggtggt tgtccctccc tgtccacaga gctgctgctc ctgctgcagc cattgtcggt gctcactttc cacctggacc tgctctttga gcaccaccac cacctgcccc tgggcccacc tcaggcccct gcccctccag gcccacctcc agctctgcag cagactatgc aagccatgct gcactttggg ggccggctgg cccagagcct tcgggggact tccaaggaag ctgcttcaga cccctctgac tctccaaacc ttcccacacc agggagctgg tgggagcagt tgacccaggc ctcccgggtc tatgcctctg ggggcactga gggctttcct ctttcccgat gggcaccggg gcgtcatggg actgcagctg aagaaggtgc acaggagaga cccctgccca cagatgagat ggcaccaggc aggggcctct ggttgggaag actatttgga gtgcctgggg gccccgcaga aaatgagaat ggagccctaa agtccaggag accatctagc tggctgcccc cgacagtgag tgtgttggct cttgtgaagc ggggggcacc tcccgagatg ccttctcctc aggagcttga ggcctcagca cccaggatgg tgcaaaccca tagggcagtg cgggctctct gtgatcacac tgctgcaaga cctgaccagt tgagcttccg gcgtggggaa gtgctgcgtg tcatcaccac agtggatgag gactggctcc gctgtgggcg ggatggcatg gagggtctgg tgcctgtggg gtatacctcc cttgttctgt ag
Molecular Weight	85,216 Da
Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for RUSC1 cdna clone	MBS1272435 is a cDNA clone targeting RUSC1.
Other Notes	Small volumes of RUSC1 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 RUSC1. It may not necessarily be applicable to this product.

NCBI GI #	33875915
NCBI GeneID	23623
NCBI Accession #	BC001045
UniProt Secondary Accession #	Q5T9U9; Q5T9V0; Q5T9V1; Q5T9V2; Q9UPY4; Q9Y4T5; B3KWM9
UniProt Related Accession #	Q9BVN2
NCBI Official Full Name	Homo sapiens RUN and SH3 domain containing 1, mRNA
NCBI Official Synonym Full Names	RUN and SH3 domain containing 1
NCBI Official Symbol	RUSC1
NCBI Official Synonym Symbols	NESCA
UniProt Protein Name	RUN and SH3 domain-containing protein 1

UniProt Synonym Protein Names	New molecule containing SH3 at the carboxy-terminus; Nesca
Protein Family	RUN and SH3 domain-containing protein
UniProt Gene Name	RUSC1
UniProt Synonym Gene Names	NESCA; Nesca
UniProt Entry Name	RUSC1_HUMAN
NCBI Protein Information	RUN and SH3 domain-containing protein 1
UniProt Comments for RUSC1	RUSC1: Putative signaling adapter which may play a role in neuronal differentiation. May be involved in regulation of NGF- dependent neurite outgrowth. Proposed to play a role in neuronal vesicular trafficking, specifically involving pre-synaptic membrane proteins. Seems to be involved in signaling pathways that are regulated by the prolonged activation of MAPK. Can regulate the polyubiquitination of IKBKG and thus may be involved in regulation of the NF-kappa-B pathway. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 1q21-q22 Cellular Component: cytoplasmic vesicle; early endosome; Golgi apparatus; microtubule cytoskeleton Molecular Function: actin binding; protein binding; SH3/SH2 adaptor activity Biological Process: protein polyubiquitination
Research Articles on RUSC1	**1.** RUN domain of NESCA can bind H-Ras, a downstream signaling molecule of TrkA, with high affinity. Moreover, NESCA RUN can directly interact with TrkA.
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