ARC cDNA Clone – Activity-Regulated Cytoskeleton-Associated Protein (Human)

PRODUCT OVERVIEW

Product Name	ARC, cDNA Clone
Full Product Name	ARC cDNA Clone
Product Gene Name	ARC cdna clone
Sequence	atggagctgg accaccggac cagcggcggg ctccacgcct accccgggcc gcggggcggg caggtggcca agcccaacgt gatcctgcag atcgggaagt gccgggccga gatgctggag cacgtgcggc ggacgcaccg gcacctgctg gccgaggtgt ccaagcaggt ggagcgcgag ctgaaggggc tgcaccggtc ggtcgggaag ctggagagca acctggacgg ctacgtgccc acgagcgact cgcagcgctg gaagaagtcc atcaaggcct gcctgtgccg ctgccaggag accatcgcca acctggagcg ctgggtcaag cgcgagatgc acgtgtggcg cgaggtgttc taccgcctgg agcgctgggc cgaccgcctg gagtccacgg gcggcaagta cccggtgggc agcgagtcag cccgccacac cgtttccgtg ggcgtggggg gtcccgagag ctactgccac gaggcagacg gctacgacta caccgtcagc ccctacgcca tcaccccgcc cccagccgct ggcgagctgc ccgggcagga gcccgccgag gcccagcagt accagccgtg ggtccccggc gaggacgggc agcccagccc cggcgtggac acgcagatct tcgaggaccc tcgagagttc ctgagccacc tagaggagta cttgcggcag gtgggcggct ctgaggagta ctggctgtcc cagatccaga atcacatgaa cgggccggcc aagaagtggt gggagttcaa gcagggctcc gtgaagaact gggtggagtt caagaaggag ttcctgcagt acagcgaggg cacgctgtcc cgagaggcca tccagcggga gctggacctg ccgcagaagc agggcgagcc gctggaccag ttcctgtggc gcaagcggga cctgtaccag acgctctacg tggacgcgga cgaggaggag atcatccagt acgtggtggg caccctgcag cccaagctca agcgtttcct gcgccacccc ctgcccaaga ccctggagca gctcatccag aggggcatgg aggtgcagga tgacctggag caggcggccg agccggccgg cccccacctc ccggtggagg atgaggcgga gaccctcacg cccgccccca acagcgagtc cgtggccagt gaccggaccc agcccgagta g
Molecular Weight	45,316 Da
OMIM	612461
Vector	Please Inquire
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ARC cdna clone	MBS1271340 is a cDNA clone targeting ARC.
Other Notes	Small volumes of ARC 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 ARC. It may not necessarily be applicable to this product.

NCBI GI #	15147373
NCBI GeneID	23237
NCBI Accession #	BC012321
UniProt Secondary Accession #	Q9UJW6; Q9Y469
UniProt Related Accession #	Q7LC44
NCBI Official Full Name	Homo sapiens activity-regulated cytoskeleton-associated protein, mRNA
NCBI Official Synonym Full Names	activity regulated cytoskeleton associated protein
NCBI Official Symbol	ARC
NCBI Official Synonym Symbols	Arg3.1
UniProt Protein Name	Activity-regulated cytoskeleton-associated protein

UniProt Synonym Protein Names	ARC/ARG3.1; Activity-regulated gene 3.1 protein homolog; Arg3.1
Protein Family	AAA ATPase forming ring-shaped complexes
UniProt Gene Name	ARC
UniProt Synonym Gene Names	Arg3.1
UniProt Entry Name	ARC_HUMAN
NCBI Protein Information	activity-regulated cytoskeleton-associated protein
UniProt Comments for ARC	ARG3.1: Required for consolidation of synaptic plasticity as well as formation of long-term memory. Regulates endocytosis of AMPA receptors in response to synaptic activity. Required for homeostatic synaptic scaling of AMPA receptors. Plays a role in the regulation of cell morphology and cytoskeletal organization. Required in the stress fiber dynamics and cell migration. Belongs to the ARC/ARG3.1 family. Protein type: Motility/polarity/chemotaxis; Cytoskeletal Chromosomal Location of Human Ortholog: 8q24.3 Cellular Component: cytoplasm; plasma membrane Biological Process: cell migration; cytoskeleton organization and biogenesis; regulation of cell morphogenesis
Research Articles on ARC	**1.** We tested whether ARC variants are associated with six measures of cognitive functioning in 670 healthy subjects in the Norwegian Cognitive NeuroGenetics (NCNG) by extracting data from its Genome-Wide Association Study (GWAS).
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