

Product datasheet for MC225167

Arhgap32 (NM_001195632) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgap32 (NM_001195632) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgap32
Synonyms:	3426406O18Rik; Gc-gap; Grit; mKIAA0712; p200Rhogap; p250Gap; Px-rics; Rics
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC225167 representing NM_001195632 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGACAGAAAGTGAGACTAGCTCTTTGGGGGATGACAGTGTGTTTTGGTTGGACTGTGAAGGTGTAA
CCCAGCTGACTGATGGTGACGAGGAAGAAAGGGAAGAGAGTTTCAGAAAGATGAAGTCCTCAATACATTC
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CACTCCTGCTGTGCGTGCTGCCATGTTATCAAGCGCTACACCGCTCGGGCCCTGATGAAGTACATTA
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CCACCACACTATAGAACCCTGGAGTTCCTGATGAGACACCTGTCTCTTCTAGCAGACTATTGCTCCATCA
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 AACAGAGAGGAGTCACAGCCTAAACTTCACCATAACCCAGAACCTGGAGAGGGACCCAGCGTGTATA
 CCAGTATCAGACACACAGCAAGCGCCAGAGCAGCATGACTGTTGTGTCCAGTATGATAACCTGGAGGAT
 TACCACTCCCTGCCCCAGCAGCAGGAGGCTTTGGAGGGGCGGGCATGGGGGCTATGTGCCCTCTG
 GCTTTGTCCATCCACAGAGCAGGACATACGCCACAGCATTGGGTGAGGGGCTTCTGCCACAGAGTT
 GTCCTTGCCACATCCCGACACGCAGATCCATGCAGAA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001195632
Insert Size:	6270 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001195632.1, NP_001182561.1</u>
RefSeq Size:	10633 bp
RefSeq ORF:	6270 bp
Locus ID:	330914
UniProt ID:	<u>Q811P8</u>

Cytogenetics:

9 A4

Gene Summary:

GTPase-activating protein (GAP) promoting GTP hydrolysis on RHOA, CDC42 and RAC1 small GTPases. May be involved in the differentiation of neuronal cells during the formation of neurite extensions. Involved in NMDA receptor activity-dependent actin reorganization in dendritic spines. May mediate cross-talks between Ras- and Rho-regulated signaling pathways in cell growth regulation. Isoform 2 has higher GAP activity.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1, also known as PX-RICS). This variant lacks full-length transcript support in mouse, with the 5' exon structure being inferred from homologous transcript alignments. Evidence in the literature, including that in PMIDs 17663722, 16716191, 12857875 and 12531901, support the existence of this longer isoform in mouse. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.