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Product datasheet for MC220088

Arhgef7 (NM_017402) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef7 (NM_017402) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Arhgef7
Synonyms:	betaPix; betaPix-b; betaPix-c; Cool; cool-1; mKIAA0142; p85Cool1; p85SPR; Pak3bp; PIX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC220088 representing NM_017402
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTGATAACACCAACAGCCAACTGGTAGTACGAGCCAAGTTTAACTTCCAGCAGACCAATGAAGATG
AACTCTCCTTCTCAAAGGGTGATGTCATCCATGTCACACGAGTGGAGGAAGGAGGCTGGTGGGAGGGCAC
ACACAATGGCAGGACCGGCTGGTTCCCCAGCAACTACGTTCGAGAGATCAAGCCAAGTGAGAAGCCCGTG
TCACCCAAATCAGGGACCTTGAAGAGCCCTCCCAAAGGGTTCGATACGACTGCCATCAACAAGAGCTATT
ACAACGTGGTGCTACAGAACATCCTGGAAACAGAGCATGAGTATTCCAAGGAGCTGCAGTCTGTGCTGTC
CACCTACCTGCGGCCACTGCAGACCAGTGACAAGTTGAGTTCAGCAAACACTTCATATTTAATGGGAAAT
CTAGAGGAAATATCTTCCTTCCAGCAAGTGCTTGTACAGTCCCTAGAAGAATGCACGAAGTCTCCTGAAG
CCCAACAGAGAGTTGGTGGCTGCTTCCTGAGCCTGATGCCGCAGATGAGGACCCTGTACCTCGCTTACTG
TGCCAACCACCCATCTGCTGTGAGCGTCCTCACAGAGCACAGTGAGGACCTAGGAGAGTTCATGGAAACA
AAAGGTGCCAGCAGCCCTGGGATCCTGGTGCTGACCACCGGCCTGAGCAAGCCCTTCATGCGCCTGGACA
AGTACCCCACACTGCTAAAGGAGCTGGAGAGACACATGGAGGATTATCATCCTGATAGACAAGATATTCA
GAAGTCTATGACGGCCTTCAAAAACCTTTCAGCTCAGTGTCAAGAAGTTCGCAAGAGGAAGGAGCTGGAG
CTGCAGATCCTGACGGAGCCCATCAGGAGCTGGGAGGGGGATGACATAAAGACCCTGGGCAGTGTCACAT
ACATGTCCCAAGTCACCATTCAGTGTGCGGGAAGCGAGGAGAAGAATGAGAGATACCTCCTGCTCTTCCC
AAACCTTCTGCTCATGTTGTCTGCAAGTCCCAGGATGAGTGGTTTCATCTATCAGGGGAAGCTGCCAACA
ACAGGAATGACAATCACAAAGCTTGAGGACAGTGAAAACCATAGGAATGCATTTGAGATATCAGGGAGCA
TGATCGAGCGGATTCTGGTGTCCTGCACCAGCCAGCAGGACTTACACGAGTGGGTGGAACACCTGCAGAA
GCAGACGAAGGTCACATCTGTGAGCAACCCCACCATCAAACCCCACTCGGTGCCATCACACACACTTCCT
TCCCATCCTCTCACTCCATCCAGCAAACACGCGGACAGCAAGCCCGTGGCACTGACGCCTGCGTACCACA
CACTCCCCCACCCCTCTCACCATGGCACCCCACACACCACCATCAGCTGGGGACCCCTGGAGCCTCCGAA
GACCCCCAAGCCTTGGAGCCTGAGTTGCCTGCGGCCTGCACCTCCCCTCCGGCCCTCAGCTGCTCTCTGC
TACAAGGAGGATCTCAGTAAGAGCCCCAAGACCATGAAAAAGCTGCTGCCGAAGCGCAAGCCCGAGCGGA
AGCCTTCGGACGAGGAGTTCGCTGTGCGCAAGAGCACAGCGGCGCTGGAAGAAGACGCTCAGATCCTGAA
GGTTATCGAAGCTTATTGCACAAGTGCAAAGACGCGCCAGACCCTGAACTCAAGTTCACGCAAAGAATCT
GCTCCACAAGTGTTGCTTCCAGAAGAAGAAAAAATTATAGTCGAAGAAACCAAGAGCAATGGGCAGACAG
TGATAGAGGAAAAGAGCCTCGTGGATACGGTGTATGCGTTAAAGGATGAAGTCCAGGAGTTAAGACAGGA
TAACAAGAAGATGAAGAAGTCCTTAGAGGAGGAACAGAGGGCCCGCAAGGACTTAGAGAAGCTGGTGAGG
AAGGTTCTAAAGAATATGAACGACCCTGCCTGGGATGAGACCAATCTATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_017402

Insert Size: 1941 bp

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OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
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.
RefSeq:	NM_017402.4, NP_059098.2
RefSeq Size:	4488 bp
RefSeq ORF:	1941 bp
Locus ID:	54126
UniProt ID:	Q9ES28
Cytogenetics:	8 A1.1
Gene Summary:	Acts as a RAC1 guanine nucleotide exchange factor (GEF) and can induce membrane ruffling. May function as a positive regulator of apoptosis. Functions in cell migration, attachment and cell spreading. Promotes targeting of RAC1 to focal adhesions. Downstream of NMDA receptors and CaMKK-CaMK1 signaling cascade, promotes the formation of spines and synapses in hippocampal neurons (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) differs in the 5' UTR and contains multiple coding differences including translation initiation at a downstream start codon, compared to variant 1. The resulting isoform (c) is shorter than isoform a.

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