

Product datasheet for **MR216238**

Arhgef6 (NM_152801) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef6 (NM_152801) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgef6
Synonyms:	1600028C08Rik; 1700038J06Rik; 4930592P22Rik; alpha-PIX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR216238 representing NM_152801
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAATCACGGATGTGGCTTAGTCTTACAGCTGCCCGAGAGCTGTTTCAGAGCGTCCGAGAGCCTCAG
 TCATGAATCCAGAAGAAGCCTTGTGACATGGCTTATATCTTTGGGAGTTCTAGAGTCTCCCAAAAAGAC
 TGCTGTGATCCAGAGGATTCTTGAAGTCTCGCTGAAAAATGGGGTAGTGTGTGCAAACTCATAAAC
 AGACTTCTGCCTGGCTCGGTGGAGAAGTATTGTCTGGAACCCCAAAGTGAAGGCGACTGCATCGACAACA
 TCAATGACTTCTGAAAGGATGTGCAACTCTTCAAGTGAAGTGTGTTGAGCCTGATGACCTCTATTCGGG
 GGCCAATTTCTCCAAGTTCTGAATACTCTTTAGCTGTCAACAAAGCAACTGAAGATCAGCTCTCAGAA
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 GTAATTATGTCCGAGAAATTAACCCAGTGAGAGACCTCTGTCCCTAAGGCTATCAAAGGATTTGACAC
 TGCTCCACTTACCAAGAATTACTACACTGTGGTGTACAGAACATCTTGACACTGAAAAAGAATATGCC
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 AAATCGATGTACCTGGCTTACTGTGCAATCATCCATCAGCTGTCAACGTGCTCACCCAGCACAGTGATG
 ATCTAGAACGATTCACTGGAAAATCAAGGTGCATCCAGCCCGGTATCCTCATTCTAACAACAAGTCTCAG
 CAACCATTCATGCGACTGGAAAAGTATGTTACTCTTGTGCAAGAAGTGAACGACATATGGAGGACACT
 CATCCAGACCATCAGGATATTCTGAAAGCAATCATAGCATTCAAAAACACTCATGGGGCAGTGTCAAGATC
 TGAGAAAGAGAAAAGCAGCTGGAATTGCAGATCCTTTCAGAACCTATTGAGGATGGGAAGGAGATGATAT
 TAAGACTTTGGGAAATGTGATCTTTATGTCTCAAGTAGTGTGATGCAGCATGGGGCCTGTGAGGAGAAAGAG
 GAACGATATTTTCTGCTGTTTTCAAGTGTCTTGATAATGTTGTCTGCAAGTCTCGGATGAGTGGCTTTA
 TGTATCAGGGAAAAATACCAATAGCAGGGATGGTAGTGAACAGATTGGATGAAATTAAGGCAGTGACTG
 TATGTTGAAATCACAGGTAGCACGGTTGAGAGAATTGGTCCATTGCAACAATAACCAGGACTCCAG
 GAGTGGATGGAGCAGCTGAACAGACTGACCAAAGGACCAACCTCTGCGGTTTATTGTCTAAGACCTCCT
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 AATTATAAAAACCGTGGAGTTAAGTTGCCTACGACCTGCACCTCACTTAGACCATCAGCAGCACTAGGT
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 ACAAAAAGAAAGACGGAGAGGAAAGCATCCGAGGAAGAATACGTGATTAGGAAAAGTACTGCTGCCCTGGA
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 AAAGATTCTGTTCCACAAGTTCTACTCCCGAGGAAGAGAACTCATTATTGAAGAAACCAGAAGTAATG
 GGCAGACCATCATTGAAGAGAAGAGCCTTGTGATACTGTCTATGCCTTGAAGGATGAGGTCAAGGAACT
 GAAGCAGGAGAAATAAAAAATGAAGCAATGTCTGGAAGAAGAATTGAAGTCGAGGAAGGACCTAGAGAAG
 CTGGTCCGGAAGCTGTTGAAACAAACAGATGAATGCATTGATCTGAATCCAGCAGCAAGACCTCGATTCT
 TCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR216238 representing NM_152801
Red=Cloning site Green=Tags(s)

MQSRMWLSLHSCPESCSERPRASVMNPEERLVTWLISLGVLESPKKTVCDPEEFLKSSLKNGVVLCKLIN
RLLPGSVEKYCLEPQTEADCIDNINDFLKGCATLQVEVFEPDDL YSGANFSKVLNTLLAVNKATEDQLSE
RPCGRSSSLSAATSSQTNPOVAVPSTAPEQHSEEKAEMTENGSHQLIVKARFNFKQTNEDELSVCKGDII
YVTRVEEGGWEGTLNGRTGWFP SNYVREIKPSE RPLSPKAIKGFDTAPLTKNYTVVLQNILDTEKEYA
KELQSLLVTYLRPLQSNNNLSTVEFTCLLGNFEEVCTFQQTLCQALEECSKFPENQHKGVCLLNLMPHF
KSMYLAYCANHPSAVNVLTQHSDDLRFMENQGASSPGILILTTSLSKPFMRLEKYVTLQELERHMEDT
HPDHQDILKAI IAFKTLMGQCQDLRKRKQLELQILSEPIQAWEGDDIKTLGNVIFMSQVVMQHGACEEKE
ERYFLLFSSVLI ML SASPRMSGFMYQGKIPIAGMVNRLDEIEGSDCMFEITGSTVERIVVHCNNNQDFQ
EWMEQLNRLTKGPTSCGSLSKTSSSSCSTHSSFSSTGQPRGLEPPQIIKPWSLSCLRPAPPLRPSAALG
YKERMSYILKESKSPKTMKKFLHKKRTERKASEEEYVIRKSTAALEEDAQILKVIEAYCTSASFQQGTR
KDSVPQVLLPEEEKLIIETRSNGQTIIEEKSLVDTVYALKDEVKELKQENKMKMQCLEEELKSRKDLEK
LVRKLLKQTDECIRSESSKTSILQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9096_d08.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_152801

ORF Size: 2385 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_152801.2](#), [NP_690014.2](#)

RefSeq Size: 4580 bp

RefSeq ORF: 2388 bp

Locus ID: 73341

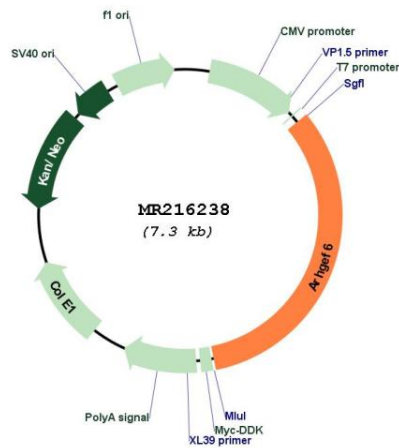
UniProt ID: [Q8K4I3](#)

Cytogenetics: X A6

MW: 89.8 kDa

Gene Summary: Acts as a RAC1 guanine nucleotide exchange factor (GEF).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216238