

Product datasheet for **RR200234**

Arhgef7 (NM_001113522) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef7 (NM_001113522) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Arhgef7
Synonyms:	P85spr; Pak3bp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR200234 representing NM_001113522
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTGATAACGCCAACAGCCAACTGGTAGTACGAGCCAAGTTAACTCCAGCAGACCAATGAAGATG
 AGCTCTCCTTCTCGAAGGGTGACGTCCATGTCACTCGAGTGGAGGAAGGAGGCTGGTGGGAAGGCAC
 ACACAATGGCAGGACCGCTGGTCCCCAGCAACTACGTACGAGAGATCAAGCCAAGTGAGAAGCCTGTG
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 ACAATGTGGTGCTACAGAACATCCTGGAACAGAGCATGAGTATTCGAAGGAGCTGCAGTCTGTGCTGTC
 AACCTACCTGTGGCCGCTGCAGACCAGCGAGAAGTTGAGTTCAGCAAACACTTCATATTTAATGGGAAAT
 CTAGAGGAAATATCTTCCTCCAGCAAGTGCTGTACAGTCCCTAGAAGAATGCACAAAGTCTCCTGAAG
 CCCAGCAGAGAGTCGGTGGCTGCTTCTGAGCCTGATGCCGCAGATGAGGACCCTGTACCTTGCCTACTG
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 TACAAGGAGGATCTCAGCAGGAGTCCCAAGACCATGAAAAGCTGCTGCCAAAACGCAAGCCCGAGCGCA
 AGCCTTCAGACGAGGAGTTCGCTGTGCGCAAGAGCACAGCCGCTCTGGAGGAAGACGCTCAGATCCTGAA
 GGTATTGAAGCTTACTGCACAAGTGCAAAGACGAGGCAGACCCTGAACTCAAGTTCACGCAAAGAGTCT
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 AAGTTCTAAAGAACATGAACGACCCTGCTGGGATGAGACCAATCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200234 representing NM_001113522
Red=Cloning site Green=Tags(s)

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MTDNANSQLVVRAKFNFQQTNEDELSFSKGDVIHVTRVEEGGWEGTHNGRTGWFPSNYVREIKPSEKPV
SPKSGTLKSPKGFDTTAINKSYNVVLQNILETEHEYSKELQSVLSTYLWPLQTSKLSANTSYLMGN
LEEISSFQQVLVQSLEECTKSPEAQQRVGGCFLSLMPQMRTLAYCANHPSAVSVLTEHSEDLGEFMET
KGASSPGILVLTGLSKPFMRDLKYPTLLKELERHMEDYHPDRQDIQKSMTAFKNLSAQCCQEVRRKKELE
LQILTEPIRSWEGDDIKTLGSVTYSQVTIQCAGSEEKNERYL LLLFPNLLMLSASPRMSGFIYQGLPT
TGMTITKLESENHRNAFEISGSMIERILVSCNNQDDLHEWVEHLQRQTKVTSVSNPTIKPHSVPSHTLP
SHPLTPSSKHADSKPVALTPAYHTLPHPSHHGTPHTTISWGLEPPKTPKPWSLSCLRPAPPLRPSAALC
YKEDLSRSPKTMKLLPKRKPERKPSDEEFAVRKSTAAL EEDAQILKVEAYCTSAKTRQTLNSSSRKES
APQVLLPEEEKIIVEETKSNQTVIEEKSLVDTVYALKDEVQELRQDNKKMKKSL EEEQRARKDLEKLV R
KVLKNMNDPAWDETNL
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001113522

ORF Size: 1938 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_001113522.1](#), [NP_001106994.1](#)

RefSeq Size: 4379 bp

RefSeq ORF: 1941 bp

Locus ID: 114559

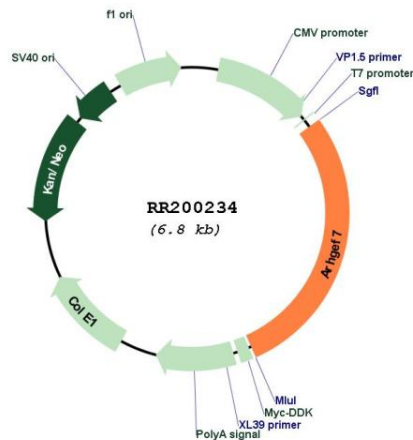
UniProt ID: [O55043](#)

Cytogenetics: 16q12.5

MW: 73.1 kDa

Gene Summary: Rac/Cdc42-specific guanine nucleotide exchange factor; mediates bFGF-induced neurite outgrowth [RGD, Feb 2006]

Product images:



Circular map for RR200234