

Product datasheet for **RN217650**

Arhgef40 (NM_001271313) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef40 (NM_001271313) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Arhgef40
Synonyms:	RGD1308093
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN217650 representing NM_001271313 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGAGCCTGAACAGTGGAGGACTGTGTGCAGAGCACGCTCGCTGCCTTGTACCCACCCTTTGAAGCCA
CAGCCCCAACCTGTTGGGCCAGGTGTTCCAGGTGGTGGAGAGGACATATCAGGAGGATGCGCTGAGGTA
CACGCTGGACTTCTGGTACCCGCTAAACACCTGCTTGCCAAGGTCCAGCAGGAAGCCTGTGCCAGTAT
AGTGGATTCTCTTCTCCACGAGGGCTGGCCACTCTGCTTGACGAGCAAGTGGTGGTGCAGCTAGCGG
CCCTTCCCTGGCAGCTGCTGCGTCCCGGAGACTTCTACCTGCAGGTAGTGCCTTCTGCAGCCCAAGCACC
CCGTCTGGCACTGAAATGTCTGGCGCCAGGAGGTGGGCGGTACAGGAGCTCCCAAGTGAAGCC
TGTGCCTACCTATTACACCCGAGTGGCTACAAGGCATTAACAAGGACCGGCCAACAGGGCGTCTCAGCA
CCTGCCTTCTGTCTGCACCTCTGGAATTCAGCGGCTACCCTGGGCTGAGCTCGTCTGCCAAGATTTGT
GCACAAAGAGGGCCTCATGGTGGGACATCAGCCAAGCACATTGCCTCCAGAACTGCCCTCTGGACCTCCG
GGGCTTCTAGCTCTCCACTCCCTGAGGAGGTACTTGGTACCCGAGTCTGGGGATGGACACAATGCTC
CTGCAGAAGGTCCAGAAGGTGAATACGTCGAGCTGTTGGAAGTGACGCTGCCTGTGAGGGGAAGCCCCAT
AGATGCTGAGGCCTCAGGCCTCTCCAGGACTCGCACAGTACCGGCTCGTAAGACCACTGGAGGGAAGGGT
AGGCACCGGAGACACAGGCATGGATGAATCAGAAAGGCCCGGGTCTCGGGATCAGGATGGGACACGCC
CACCTGGTGAGGGTAGTAGCACCGGAGCCTCTTCGGAATCCCTTCAGGGGCTGAGGCAGACCCAGATGC
AGCAGTCTCGAGGCACCTGAGCCCCGGCAGAGGCTTCAGGAGAAGCCTCTGAATCCTGCCTTCTGTCA
GGGGAGGCTGTGGGAGGAGTGGGCCAGGGGACTGAAGGACCACCTGATACCCCTCGAAGAACCGGCAAG
GAAACAGAAGGAAGAAGCGAGCTGCGGGCAGAGGTGCTGTAAGTCGGGGAGGGGAGGTACCCCACTCAG
CCCCCGGACAAAGAAGAGACTAGACAGCCGGAAGTCTTAGTCTGCCCTCACCCAGTGAACAGGAACCT
GTAGAATGCAGCTGTTAAGGAGAAAGAGGATTCTGGGAAGCCAGAGTCTGAATCAAAAGAGGAAGTCA
AGCCAGCAGATGAAAAGAGCCTGCACCCCGAAGACTATGAGCCTCCAGAAGAGGGGAATAGAGAGAG
TGAGAAAGAGGAGTTGCCCGGAGGTACGGCAGGATCCACAGGTCTGAATGGTTCCCATCTGAGCCT



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CCAACACAGCCCCTGGAGACTGTGCAGGACGTAAGAAGACAGCATCCCAGAAGAACTCCCCAGTTT
 CTGCTTCGGATGACCCACTTATAGTTTGGGACTTGATGTCATCTGGATTCTTCATTTTACTGGAGGGT
 AGATCAGACTGGGAGAGCTCTGCTGAGGATTACGCCTCCACCTCCATGCCTTCTGAGGAGCCCTCACCC
 TCCCAAGAGACTGAGCACTGCTCTTCGCTATCTCCACTCACTGCTTAGGCCTGATCTGCAATTATTGG
 GGCTGACCATCTCTTGACCTTCGCAAGGTGCCCCACTGCCTCCAGCACTTCTTCTGCCTTGAGTCA
 GCTTCAGGACTCAGGCGACCTCCGTTTCATTAGAGACTGCTGATCTCACTCATGAAGACCTCCAGAA
 GAACTCTGTGGCTTTCAGGGAGCTGAGTTGCTGTGAGAGAGGATCTGAAAAGAGTGCCCAAGCCAGAGG
 AGCTACAGTGGGACTTAGGAGGTACAGGGACCTCTCCCCAACCACTGGGCAGAGATACATCAGGAGGT
 GGCAAGGCTGTGCACCTTGTGCCAAGGTGTGCTGACCTCTGTTCCGGCAGGCCATTGAGGAGCTCGAGGGA
 GCGGCAGAATCCAAAGAAGAGGAGTCGGTGGGAATGCCTGAGCCCTGCAAAAGGTGCTGGCAGATCCTC
 GGCTGACGGCGCTACAGAGGAACGGAGGAGCCATCCTGATGCGCCTGCGCTCCACGCATAGCAGCAAGCT
 AGAGGGCCAGGCCCAGCTGTGCTATACCAGGAAGTAGATGAGGCCATTACACAGCTCGTGCCTGTGCC
 AACCTACGGGTGCAGCAGCAGGAACAACGCCAACGCCTACGCCAAGTCAGGAGGTGCTGCAGTGGCTGT
 CTGGCCAGGGAAGAGCAGCTGGCCAGCTTACCATACTGGGAACTCCCTGTCACTTACAAGAGAC
 AGAACTTCGATTCCGAGCGTTTAGCACTGAGGTGCAGGAGCGCCTAGTCCAAGCCCGGAAGCATTGGCT
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 TCGGCTGGCAGGAGCTGGGCCTGGCCGTGAAGCTGTACTGGCAGCCCTAGCCCTGCGAAGGGCCCGAGAG
 CCCAGTGACGGCACCTTCCAAGAGATGCGAGCCCTGGCCCTAGACTTGGGTAGCCCCGACGCCCTTCGAG
 AGTGGGGCCGATGTGGGCACGCTGCCAAGAGCTGAAAGGAGGATTACAGCAGCTGGGAGAGGAAGC
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 GCTCTGACCCCATGTGGAGAGGACTATGAGGAAGAAGCCCTTGAATTAGTCCAGAAGCAGATGGAAG
 ACCCCCAAGGGCTGTGCTGATCCGAGGACTGGAGGTACCAAGTACTGAAGTGGTAGATAGGACATGTTCA
 CCCCAGCAACACGTGCTATTGGGCCGGGCTGGAGGGCCAGATGGACCCTGGGGAATAGGTACCCCTCGAA
 TGGAACGGAAACGAAGCATCAGTGCCAGCAGCGTCTAGTGTCTGAACTGATTGACTGTGAACAGGAATA
 TATAACCACTCTGAATGAGCCAGTGCCACCGCTGGGCCTGAGCTAACTCCTGGGCTTCTGCTGCACCTGG
 GCTGCAGCCCTGAGTGTCCGAGAGAGGCTTCGACGCTTCCACGGGACCCACTTTCTACAAGAGCTTCAGG
 GCTGCACCGCCACCCCTCTGCGCATTGGGCCTGCTTCTCCGCCATGGGGACAGTTCAACCTCTATGC
 ACAGTTCTGTAAGCACAGGCATAAACTGGAGAGTGGTCTGACTGCGCTCACCCCTCGGTCAAGGGTTCT
 ATGGAGGGCAGCCCTTGCTTGCCCCGGGCCCTGCAGCAGCTCTGGAACAGCTAGCTCGGTACGCACAGC
 TCTTGGAGGAGCTCCTGAGGGAAGCTGGGCCTGAGCTAAGCTCCGAACGCCAGGCCCTCAGGGCTGCTGT
 ACAGCTGCTCCAGGAACAAGAGGCCCGAGGCAGAGATCTGCTCGCTGTGGAAGCTGTGCGAGGCTGTGAG
 ATAGATCTGAGAGAACAGGGACAGCTCCTGCATCGGGACCCCTTCACTGTCTGTGGCCGGAAAAAGT
 GCCTACGCCATGTCTTTCTCTTCGAGGACCTGCTCTTATTCAGCAAGTCGAAGGGTTCTGAAGGAGGATC
 CGAGACCTTTGTTTACAAGCAGGCTTTCAAGACCGCTGACATGGGGCTGACAGAAAACATCGGGGACAGC
 GGACTCTGTTTCAAGTGTGGTTTCGGCGACGGCGTGCACGAGAAGCATAACACTTTCAGGCCACTTCGC
 CAGAGACTAACTCAAGTGGACAAGTTCTATTGCCAGCTTCTGTGGAGACAGGCAGCCACAACAAGGA
 GCTCCGAGTGCAGCAGATGGTTTCCATGGGCATTGGGAATAAACCTTTCTGGACATTAAGGCCCTTGGG
 GAACGGACACTGAGTGCCCTGCTCACTGGAAGAGCCGCCGAACCCGGGCCTCCGTAGCCGTGTCATCCT
 TTGAGCATGCTGGCCCGTCCCTTCCCGGCTCTACCGGGAGCCTGCTCCCTGCCTGCCCGCTCGAGGA
 GGAGGCCTGGGATCTGGACGTCAAGCAGATTTCCCTGGCCTCAGAAACACTTGACTCTTCTGGAGATGTG
 TCCCCAGGACCAAGAAACAGTCCAGCCTGCAGTCCCCAACCCCTGGGAGCAGTACTCTGCTCTGAGCA
 GTGGCGGGATCTTAGGGCTATCCAGGCAGAGTCATTCCCGAGCCCTGAGTGACCCCAACACGCTCTGTG
 A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001271313

Insert Size:	4551 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001271313.1, NP_001258242.1</u>
RefSeq Size:	6118 bp
RefSeq ORF:	4551 bp
Locus ID:	361034
Cytogenetics:	15p14