

Product datasheet for **RN209197**

Arhgef1 (NM_021694) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Arhgef1 (NM_021694) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Arhgef1
Synonyms:	Lsc
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF:

>RN209197 representing NM_021694

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGAGAAGTCGCCGAGGGGGCGCCAGGGCCTCCCGGTCTGGCCTGGTGTCCATCATCATCGGGG
CTGAGGATGAGGACTTTGAGAATGAACTGGAGGCGAACCCAGAAGATCAAAACAGCCAGTCCAGAGCCT
GGAGCAAGTGAAGCGTCGCCAGCCACCTCATGGCCCTCCTGCAACACGTGGCCCTGCAGTTCCAGGCCA
GGACCACTGCTCTGCTGCCTGCATGCTGACATGCTAAGCTCACTGGGCCCAAAGAAGCCAAGAAGGCCCT
TCCTCGATTTCTATCACAGTTTCTGGAGAAGACTGCGGTTCTGCGGGTCCCGTCCCTCCAGCGTTGC
TTTTGAACCTGATCGTACTCGGCCTGATCTCATCTCTGAGGATGTCCAGAGGCGGTTACACAAGAGGTG
GTACAGAGCCAGCAGGCAGCCGTGACCCGTGAGTACAGGACTCCGCTCCAACGGCTCATGGGCATGA
CACCTGGGAGCAGGAAGTGAAGCCTGCTAGAGCCCTGGATTGGGAAAGACCGGGGCAACTATGAGCCCCG
GGAGCGCATGTTGCAGAGCGGCTGCTCTCCACCTAGAGGAAATGCAACATACCATCTCCACAGATGAA
GAAAAAAGTGTCTGTGGTCACTGCAATCAGCCTGTATATGCGCCACCTTGGGGTCCGGACCAAGAGTG
GGGACAAGAAGTCAGGGAGGAATCTTCCGAAAAAGGTGATGGGGAATCGGCGGTGACAGCAGCCCCC
CAAGACAAAGAAAGGGCTGAGCAGTATCCTAGATCCTGCCGCTGGAACCGGGGAGAGCCATCTGCTCCA
GACTGTCGACATCTAAAGGTCGAGGTTGATGAGAAGCCAGGCCCTGCAGACCGGAAGGGAAGCCTGGGTA
TTTCATCTCGGGACAGGACTGTTGGGACTCCTGGGAGGACAACCCAGGAGTCTCCCTGCACCCTCTGTC
TGTAAGACAGCCTGGATCCCGGGAACAGGTGTGGATACCCCGCAGGAGCCAGGAGATACACCCCAAA
GGCCCTACAAGCCTGGAGCCCCGACCCAGAGAGCACAGAGGACAATGGCGAGACTGAAAGCCCTG
AGCTGGAGATGATGGAGAGCCAGGGCGGTGAGCCTGGAACAGGAACCCAGAAGAACTCCTGGGTGGG
GGAAGTGGTGCCTCAGACACCCTGCTCGGCCTGCCAAGAACCAAGTGAAGCGGCAAGAGGTCATCAGT
GAGCTGCTGGTGCAGGAGCGGCTCACGTCGATGCTACGGGTACTACATGACCTTTCTACCAGCCCA
TGGCAGAAGGGGCTTCTCCCTCTGGAGGAATGCAGAACATCTTCCAGCCTGGATGAGCTCATCGA
GGTGCCTCCCTGTTCTCGATCGTTGATGAAGCGGAGACAAGAGAGTGGCTACCTCATTGAGGAGATT
GGTGTGCTACTGGCCGGTTCGATGGTGTGAGGGCTCATGGTCCAGAAGATCTTCCCGCTTCT
GCAGCCCGCAGTATTGCTCTAGAGCAGCTCAAAGCCAAGCAGCGCAAGGAGCCTCGATTCTGTGCTT
TGTGCAGGAAGCTGAGAGCCGCCCGCTGCCGGCGGCTGCAGTTGAAGGACATGATCCCACTGAGATG
CAGCGGCTGACCAAGTACCACTGCTGCTGCAGAGTATTGGGCAGAACACAGAAGAGCCTGCCGAGCGGG
CAAAGGTGGAAGTGCAGCTGAGTGTGCGCGTGAAGTCTGCACCACGTTAATCAAGCTGTCCGTGACAT
GGAGGACCTGCTGCGGCTCAAGGATTACCAGCGGCGCCTGGACTTGAATCACCTGCGGCAGAGCAATGAC
CCAATGCTGAGCGAGTTCAAGAACCTGGATATCACTAAGAAGAAGTTGGTCCATGAAGGCCCCCTCACGT
GGCGACTAACCAAGACAAGCTGTAGAGGTCCACGTGCTATTGCTGGACGACCTGCTGCTGCTGCTCCA
GCGCCAGGATGAGAGGCTGCTGCTCAAGTACACAGCCGGACGCTGACACCCACACCCGACGGAAGACC
ATGCTGCGGCTGTGCTCCGGCTCACCTCTGCCATGACCCGGGAGGTGGCCACTGATCACAAAGCTTTTT
ACGTCATTTTTACCTGGGACCAGGAGGCCAGATATATGAGCTGGTGGCAGACATCGTCGGAACGCAA
GAGCTGGTGTGCCCTCATCACAGAGACTGCCGGATCCCTGAAGTCCCTGCCCTGCCCTCCCGCCCAAA
CCCGGCCAGCCCAAGCAGCACCCGAGAACCCTGCTCAGCAGCTCTGAGAAATGGCACTGGAGGCACAG
AGGCCGCTCCAGCTGATGCCCGGACAGAGCGGATCCTCAACGACCTCCTGCCCTTCTGCAGACCAGGCC
AGAGGGCCAGCTTGTGCCACAGCCCTCCAGAAAGTACTGTCCTGAAACAGATCCTGTTGAGCACTGAG
GAAGACAGTGGAGCAGGGCCTCCCGCGATGGGGATGGGGTGCCTGGTGGTGGTGGCCCGGCCCCAACAC
ACACCCAGGAGGTTGAGGAAAACCTGTTGAGCCTAGAAGTGGTCATCAAACAAGTGGAGGAGTTAGAAGA
GGAATTTGTGCCTAAGACCCTTCTGTCTCAGCTTGGGGAGATTCTGTCCCCAACCTGGCTGCACCT
GAGCGCTCTGCTCAGACAGGCCTTCA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:	NM_021694
Insert Size:	2760 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:	<ol style="list-style-type: none"> 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_021694.3</u> , <u>NP_067726.3</u>
RefSeq Size:	3243 bp
RefSeq ORF:	2760 bp
Locus ID:	60323
Cytogenetics:	1q21
Gene Summary:	mouse homolog is an oncogene with similarity to the Dbl family of guanine nucleotide exchange factors [RGD, Feb 2006]