

Product datasheet for **SC119374**

RhoGAP (ARHGAP5) (NM_001173) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RhoGAP (ARHGAP5) (NM_001173) Human Untagged Clone
Tag:	Tag Free
Symbol:	RhoGAP
Synonyms:	GFI2; p190-B; p190BRhoGAP; RhoGAP5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001173, the custom clone sequence may differ by one or more nucleotides

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ATGATGGCAAAAAACAAAGGCCTCGTCCCCATCCTATACCATCAGTATAGTTGGACTCTCTGGGACTG
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TAGGGAATCCCTTCTACTTAAGCATATAGGATTTGTTTATCATCCCCTAAAGAAACATGTCTTAGTGGC
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 CTTTTACAATGGAGAAATTTGAGAAACGACAAACATTGGGCTCCTCCACCACCTTCAAACCCAGGACAG
 TTGGTGAACCAATGGTGCCACTTCAGTTGCCGCCACCATTGCAACCTCAGCTGATACAACCACAATTAC
 AACGGATCCTCTTGGTATTATATGA

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001173 unedited CGGCCGGCGATTCCGGCACCAGGAGAGTGGAGGAGGAGGCCGCGGGCGGGAGCGGTCCC CAGGAATGTCGCTGCCGCCGCCACCGCCGGGGCCGCTGCCGTTGAGGAGGAGACGGAGGA GACCGACGTTGTTAGGAAGATGATCCCTATGATCTTGAAGATGTTTCTGCACAGAAATGA GGGAAATACAAAGAACCAATACAGTTCTGAAATTTGGGATCTGTATTTTGAGATGATTT TATTTTCAGAATGAGAAGCATATCTGGTTACCTTTATGAATGTAGAGACATGAGAAGAGA GTTATGATGGCAAAAAACAAAGAGCCTCGTCCCCATCCTATACCATCAGTATAGTTGGA CTCTCTGGGACTGAAAAAGACAAAGGTAAGTGTGGAGTTGGAAAGTCTTGTGTGCAAT AGATTTGTACGCTCAAAAAGCAGATGAATATTATCCAGAGCATACTTCTGTGCTTAGCACC ATTGACTCTGGAGGACGAGTATCAAACAATGATCACTTTTTGTCTGGGCGTGCATAATAC AAAATAGTGAAGATGGAGTACAATGCAACATCATGTCATTGAACAACAGACGTCATTGAT GACCACACTTTCTGCCTATCCGGATACGAATTTGAACCATATATAAAACGTGCAGTCGC ATCTAATCGCACCAGCATAAACTTATGAACTTGCCTGATCACCC
Restriction Sites:	NotI-NotI
ACCN:	NM_001173
Insert Size:	5000 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:	NM_001173.2 , NP_001164.2
RefSeq Size:	9601 bp
RefSeq ORF:	4506 bp
Locus ID:	394
UniProt ID:	Q13017
Cytogenetics:	14q12
Domains:	RhoGAP, FF
Protein Pathways:	Focal adhesion, Leukocyte transendothelial migration

Gene Summary:

Rho GTPase activating protein 5 negatively regulates RHO GTPases, a family which may mediate cytoskeleton changes by stimulating the hydrolysis of bound GTP. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) uses an alternate in-frame splice site compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is one aa shorter compared to isoform a.