

Product datasheet for **SC318960**

ARHGEF7 (NM_001113513) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGEF7 (NM_001113513) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGEF7
Synonyms:	BETA-PIX; COOL-1; COOL1; Nbla10314; P50; P50BP; P85; P85COOL1; P85SPR; PAK3; PIXB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC318960 representing NM_001113513.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCGATAATAGCAACAATCAACTGGTAGTAAGAGCAAAGTTAACTCCAGCAGACCAATGAGGAC
GAGCTTTCCTTCTCAAAGGAGACGTCATCCATGTCACCCGTGTGAAGAGGGAGGCTGGTGGGAGGGC
ACACTCAACGGCCGGACCGGCTGGTTCGCCAGCAACTACGTGCGCGAGGTCAAGGCCAGCGAGAAGCCT
GTGTCTCCCAAATCAGGAACACTGAAGAGCCCTCCCAAAGGATTTGATACGACTGCCATAAAACAAAAGC
TATTACAATGTGGTGCTACAGAATATTTTGAACAGAAAATGAATATTCTAAAGAACTTCAGACTGTG
CTTTCAACGTACCTACGGCCATTGCAGACCAGTGAGAAGTTAAGTTCAGCAAACATTTTCATATTTAATG
GGAAATCTAGAAGAAATATGTTCTTCCAGCAAATGCTCGTACAGTCTTTAGAAGAATGCACCAAGTTG
CCCGAAGCTCAGCAGAGAGTCGGAGGCTGCTTTTTAAACCTGATGCCACAGATGAAAACCTGTACCTC
ACGATTGTGCCAATCACCTTCTGCAGTGAATGCTCCTCACGGAACACAGTGAGGAGTTGGGGGAGTTC
ATGGAGACCAAAGGTGCCAGCAGCCCTGGGATTCTCGTGTGACCACGGGCTGAGCAAACCTTTCATG
CGCTGGATAAATACCCTACGCTGCTCAAAGAGCTCGAGAGACACATGGAGGATTATCATACAGATAGA
CAAGATATTCAAAAATCCATGGCTGCCTTCAAAAACCTTTCAGCCCAATGTCAAGAAGTCCGGAAGAGG
AAAGAGCTTGAGCTGCAGATCCTGACGGAAGCCATCCGGAAGTGGGAGGGCGATGACATTAACCTG
GGCAACGTCACTTACATGTCCCAGGTCCTGATTCAAGTGTCCGGAAGTGAAGAAAAGAAATGAAAGATAT
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GAAATATCAGGGAGCATGATTGAGCGGATATTAGTGTGTCGTAACAACAGCAGGATCTGCAGGAATGG
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CTGACGCCCGCTACCACAGCTGCCCCACCCCTCCCACCACGGCACCCCGCACACCACCATCAACTGG
GGACCCCTGGAGCCTCCGAAAACACCCAAGCCCTGGAGCCTGAGCTGCCTGCGGCCCGCGCTCCCCTC
CGGCCCTCAGCTGCTCTGTGCTACAAGGAGGATCTTAGTAAGAGCCCTAAGACCATGAAAAGCTGCTG
CCCAAGCGCAAACCTGAACGGAAGCCTTCAGATGAGGAGTTCGCGTCCCGGAAAAGCACAGCTGCTTTG
GAAGAAGATGCTCAGATTCTGAAAGTCATTGAAGCTTACTGCACCAGCGCCAAAACAAGGCAAACACTC
AATTCAAGTTCACGCAAAGAATCTGCTCCACAAGTTTTGCTTCCAGAAGAAGAGAAAATTATAGTGGAA
GAAACTAAAAGTAAATGGTCAGACAGTGATAGAAGAAAAGAGTCTTGTGGATACCGTATATGCATTAAG
GATGAAGTTCAAGAATTAAAGACAGGACAACAAAAGATGAAGAAATCTCTAGAGGAAGAACAGAGAGCC
CGCAAAGACCTGGAGAAGCTGGTGAAGAAATCCTGAAGAATGAATGATCCTGCCTGGATGAGACC
AATCTATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map: □

ACCN: NM_001113513

Insert Size: 1941 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001113513.1</u>
RefSeq Size:	4956 bp
RefSeq ORF:	1941 bp
Locus ID:	8874
UniProt ID:	<u>Q14155</u>
Cytogenetics:	13q34
Protein Pathways:	Regulation of actin cytoskeleton
MW:	73.1 kDa
Gene Summary:	<p>This gene encodes a protein that belongs to a family of cytoplasmic proteins that activate the Ras-like family of Rho proteins by exchanging bound GDP for GTP. It forms a complex with the small GTP binding protein Rac1 and recruits Rac1 to membrane ruffles and to focal adhesions. Multiple alternatively spliced transcript variants encoding different isoforms have been observed for this gene. [provided by RefSeq, Mar 2016]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR, lacks a portion of the 5' coding region, and contains a different 3' coding region and 3' UTR, compared to variant 1. It initiates translation at a downstream start codon. Variants 1, 5, 6, 18, and 19 all encode isoform a (also known as p85Cool-1), which has a shorter N-terminus and a longer and distinct C-terminus, compared to isoform c.</p>