

Product datasheet for **SC305530**

ARHGEF4 (NM_032995) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGEF4 (NM_032995) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGEF4
Synonyms:	ASEF; ASEF1; GEF4; STM6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC305530 representing NM_032995.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCCTGGGAAGAACCAGCAGGTGAGAAGCCAGTTGCTCTCACAGTCAGAAGCGTTCCACATGGAG
CCTGCCCAAGAAGCCCTGCTTACCACTGACATGGTGACATGGGCCCTCCTCTGCATCTCTGCAGAGACT
GTGCGTGGGGAGGCTCCTTCACAGCCTAGGGGCATCCCTCACCGCTCGCCCGTCAGTGTGGATGACCTG
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TACTGTAAGAAGGACCTGCTCCGCCGACGTGTTGTACTACAAGGGCCGGCTGGACATGGACGGCTG
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CACCGTGGCGCCACAGGGGACAGCCACCTGCTGTGCACCAGGAAGCCGAGCAGAAGCAGCGCTGGCTC
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CAGAGGAAGCAGGCCATGCTGAATGCCAGCAAGCAGGTCACAGGGAAGCCAAAGGTAGGCGGACA
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CAAGCCAGCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_032995

Insert Size: 2013 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:	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_032995.2</u>
RefSeq Size:	3860 bp
RefSeq ORF:	2013 bp
Locus ID:	50649
UniProt ID:	<u>Q9NR80</u>
Cytogenetics:	2q21.1
Protein Families:	Druggable Genome
Protein Pathways:	Regulation of actin cytoskeleton
MW:	76.4 kDa
Gene Summary:	Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The protein encoded by this gene may form complex with G proteins and stimulate Rho-dependent signals. Multiple alternatively spliced transcript variants encoding different isoforms have been found, but the full-length nature of some variants has not been determined. [provided by RefSeq, Jun 2013] Transcript Variant: This variant (2) has an additional segment in the 3' region, compared to variant 1. This causes the reading frame shift, and the resulting isoform (b) is shorter and has a distinct C-terminus, compared to isoform a.