

## Product datasheet for **SC326348**

### p114RhoGEF (ARHGEF18) (NM\_001130955) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	p114RhoGEF (ARHGEF18) (NM_001130955) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGEF18
Synonyms:	P114-RhoGEF; p114RhoGEF; RP78; SA-RhoGEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326348 representing NM_001130955. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTCACAGTGGGGACCAATATCCTGCCTCCAGACCCGCTGCTTCAGCCAATACAGCAAGGGAAGAC
GCAGCTCTGTTTTCTAGAAGGATCCACCGAGGCATAAAAACGGCGCAGCCAGCCTGGCGCCGCGCCG
GGTCCCGGAGCCCGGGCGCAACATGGGAATGCGCACTCCAAAAGCGGGGACAGGCACAGCGCGCTC
CCCGGCCGCCGAGCTGTCTTTTACGGCTCTTCCCGAGAAATGGAGCGAGAACGTCTTCTGGAT
AACGAGCTGCTGACCTCCAAGATCCTGTCTGTGCTGCGGCCGAGTCGGAGCGGGGCTCCGCGCCGGG
GACCTCCGCTACCGACCACTTCTCAGCACCACCTGTCTTGCCTGTGCACAGCCTCGCTCAAG
GAGCACCCCGGGGACCCCTCCTGTCCGATGGCAGCCCGCCCTGTCCAGGAATGTCGGTATGACGGTC
TCTCAGAAAGGGGTCCCGACCAACACCGAGCCCGGCTGGCCCTGGGACGCAACTCGGACCAATCACA
GGAGAGATGGATGAAGCCGATTCTGCGTTTTTAAATTTAAGCAGACAGCTGATGACTCTGTCCCTT
ACATCTCCAAACCCGAGTCCATTTTTGTAGAAGATCCCTACACCGCCTCGCTGAGGAGTGAGATTGAG
TCAGACGGCCACGAGTTTGAAGCTGAGTCTGGAGCCTCGCCGTGGATGCAGCCTACGCCAAGAAGCAA
AAGAGGGAGGTGGTGAAGACAAGATGCCTTTATGAGCTGATGCAGACAGAGGTGCACCACGTGCGG
ACGCTCAAGATCATGCTGAAGGTGACTCCAGGGCCCTGCAGGAGGAGCTGCAGTTCAGCAGCAAGGCC
ATTGGCCGCTCTTCCCATGCGCTGACGACCTGCTGGAGACGACAGCCACTTCCCTCGCTCGGCTCAAG
GAGCGCCCGCAGGAGTCCCTGGAGAGGGCAGTGACCGGAATTATGTCATCCAGAAAATCGGCGACCTC
CTGGTTACGAGTTTTTCAGTGAAAATGGGAGAGAATGAAAGAAAAGTACGGTGTGTTTTGTAGTGGC
CACAATGAAGCTGTTAGTCATTACAAGTTGCTGCTTCAGCAAAACAAGAAATTTCAAACCTGATCAAG
AAAATTGGCAACTTCTCCATCGTGCGCGGCTTGGCGTGCAGGAGTGCAATTCCTGTTACACAACGC
ATAACCAATACCCAGTGTGTTGGAGCGCATCATCCAGAACACGGAAGCTGGCACTGAGGACTATGAA
GACCTGACCCAGGCTTGAACCTCATCAAAGATATCATCTCACAAGTGGACGCAAGGTGAGTGTG
GAGAAGGGCCAGCGCTCAGGGAGATCGCAGGGAAGATGGACCTGAAGTCTTCCAGCAAACCTCAAGAAC
GGCTCACCTCCGCAAGGAAGACATGCTTCAGCGGCAGCTCCACCTGGAGGGCATGCTATGCTGGAAG
```



[View online »](#)

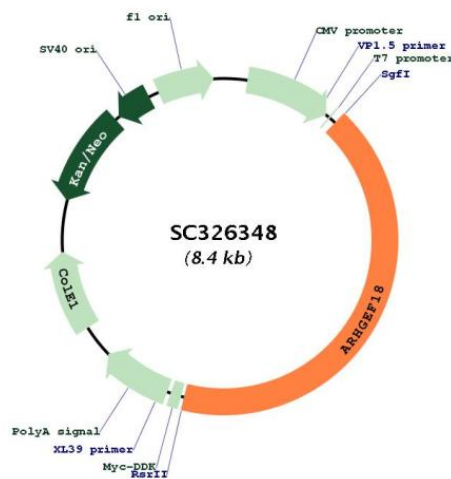
```

ACCACATCAGGGCGCTTCAAAGATATCCTGGCTATCCTGCTGACCGACGTAATTTTGGCTGCTACAAGAA
AAAGATCAGAAATACGTCTTTGCTTCTGTGGACTCAAAGCCACCCGTCATCTCGTTACAAAAGCTCATC
GTGAGGGAAGTGGCCAACGAGGAGAAAGCGATGTTTCTGATCAGCGCCTCCTTGAAGGGCCGGAGATG
TATGAAATCTACACGAGCTCAAAGAGGACAGGAACGCCCTGGATGGCCACATCAAAGGGCTGTGGAG
AGCTGCCTGACGAGGAGAGGGGCCCTTCAGCCTGCCGAAGAGGAAAGGAAGGTGGTCGAGGCCCGC
GCCACGAGACTCCGGGACTTTCAAGAGCGGTTGAGCATGAAAGACCAGCTGATCGCACAGAGCTCCTA
GAGAAACAGCAGATCTACCTGGAGATGGCCGAGATGGGCGGCCTCGAAGACCTGCCACGCCCCGAGGC
CTATTCGCTGGAGGGGACCCATCCGAGACCCTGCAGGGGAGCTAATTCTCAAGTCGGCCATGAGCGAG
ATCGAGGGCATCCAGAGCCTGATCTGCAGGCAGCTGGGCAGCGCCAACGCCAGGCGGAAGACGGAGGC
AGCTCCACAGGCCCGCCAGGAGGGCTGAGACCTTCGCGGGCTACGACTGCACAAAACAGCCCCACCAAG
AATGGCAGTTTCAAGAAGAAAGTCAGCAGCACTGACCCAGGCCCGAGACTGGCAGGGCCCCCAAC
AGCCCGGACTTGAAGCTCAGTGACAGTGACATTCTGGGAGCTCTGAGGAATCGCCGAGGTGGTGGAG
GCGCCAGGCACGGAATCCGATCCCGTCTGCCACCGTCTGGAGTCGGAGCTTGTCCAGCGGATCCAG
ACTGTCCCAGCTGCTCCTGAACCTTCAGGCGGTAATCGCCACCAGGACAGCTATGTGGAGACGCAG
CGGGCTGCCATCCAGGAGCGGGAGAAGCAGTTCGGCTGCAGTCGACGCTGGGAACCTGCTGCTGGAG
CAGGAGCGGCAACGCAACTTCGAGAAGCAGCGGAGGAGCGCGGCCCTGGAGAAGCTGCAGAGCCAG
CTGCGGCACGAGCAGCAGCGCTGGGAGCGCAGCGCCAGTGGCAGCACCAGGAGCTGGAGCGTGGGGC
GCGCGGCTGCAGGAGCGCGAGGGCGAGGCGCGGCACTACGCGAGCGGCTGGAGCAGGAGCGGGCCGAG
CTGGAGCGCCAGCGCCAGGCCTACCAGCAGCAGCTGGAGCGGCTGCGCGAGGCCAGCGTCCCGTGGAG
CGCGAGCGGGAGCGCCTGGAGCTGCTGCGCCGCTCAAGAAGCAGAACACCGGCCAGGCGCGCTGCCG
CCCACACTGGCCGAGGCCAGCCCCAAGCCACCCTCCAGCTTCAACGGGAAGGGCTGGAGGGC
CCTCGTGTGAGCATGCTGCCATCCGGCTGGGGCCAGAGTACGCAGAGCGCCCCGAGGTGGCTCGCCGG
GACAGCGCCCCACCAGAAACCGCTGGCCAAGAGCGATGTGCCATCCAGCTGCTCAGCGCCACCAAC
CAGTTCAGAGGAGCGCGCCGTGCAGCAGCAGATCCCCACCAAGCTGGCGGCCCTCCACCAAGGGTGGC
AAGGACAAGGGCGCAAGAGCAGGGCTCTCAGCGCTGGGAGAGCTCAGCGTCTTCGACCTGAAGCAG
CAGCTGCTGCTCAACAAGCTCATGGGAAAGATGAGAGCACCTCACGGAACCGCGCTCGCTGAGCCCT
ATCCTGCCGGCAGACACAGTCTGCGCCCCACCAGACCCTGGCTTCCCCGCCCGAGCCACCGCCA
GCTGACAGCCCTCCGAGGGTCTCTCTCAAGGCCGGGGCACAGCCCTCTGCCCGGGCCCCAGCT
CCCTGCCACTGCCGGCCACCACTCAGCGCCAAGGAGGACGCCAGCAAAGAAGACGTCATCTTCTTC
TAA
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
    
```

Restriction Sites:

SgfI-RsrII

Plasmid Map:



<b>ACCN:</b>	NM_001130955
<b>Insert Size:</b>	3522 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001130955.1</a>
<b>RefSeq Size:</b>	5773 bp
<b>RefSeq ORF:</b>	3522 bp
<b>Locus ID:</b>	23370
<b>UniProt ID:</b>	<a href="#">Q6ZSZ5</a>
<b>Cytogenetics:</b>	19p13.2
<b>MW:</b>	130.8 kDa
<b>Gene Summary:</b>	<p>Rho GTPases are GTP binding proteins that regulate a wide spectrum of cellular functions. These cellular processes include cytoskeletal rearrangements, gene transcription, cell growth and motility. Activation of Rho GTPases is under the direct control of guanine nucleotide exchange factors (GEFs). The protein encoded by this gene is a guanine nucleotide exchange factor and belongs to the Rho GTPase GEF family. Family members share a common feature, a Dbl (DH) homology domain followed by a pleckstrin (PH) homology domain. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Nov 2018]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and the 5' coding region, compared to variant 1. The resulting isoform (b) contains a distinct N-terminus, compared to isoform a.</p>