

Product datasheet for **RG226137**

ARHGEF7 (NM_001113512) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGEF7 (NM_001113512) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARHGEF7
Synonyms:	BETA-PIX; COOL-1; COOL1; Nbla10314; P50; P50BP; P85; P85COOL1; P85SPR; PAK3; PIXB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226137 representing NM_001113512
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATTCGCGGAGCAAACCGTTACGTGGCTCATCACTCTGGGGTGTGGAGTCGCCAAAAAACCA
 TCTCGGACCCGGAGGGCTTTCTGCAGGCGTCGCTGAAGGATGGGGTGGTCTCTGCAGGCTGCTGGAGCG
 CCTGCTCCCCGGGACCATCGAGAAAACGTTTGTGCAAATGATTTGTATCAGGGGAGAATTTTAAACAAG
 GTCCTCAGTTCCTTAGTGACTCTAAATAAAGTAACAGCAGACATCGGGCTGGGGAGTGACTCCGTGTGTG
 CCCGGCCCTCGTCTACCGCATAAAGTCTTTTACTCCCTGGATCACAGTCTTTGCACACTCGGACTTC
 AAAACTGTTCCAGGGCCAGTATCGGAGTTTGGACATGACCGATAATAGCAACAATCAACTGGTAGTAAGA
 GCAAAGTTAACTTCCAGCAGACCAATGAGGACGAGCTTCTCTCAAAGGAGACGTCATCCATGTCA
 CCCGTGTGGAAGAGGGAGGCTGGTGGGAGGGCACACTCAACGGCCGGACCGGCTGGTCCCCAGCAACTA
 CGTGCGCGAGGTCAAGGCCAGCGAGAAGCTGTGTCTCCAAATCAGGAACACTGAAGAGCCCTCCAAA
 GGATTTGATACGACTGCCATAAAACAAAAGCTATTACAATGTGGTGTACAGAATATTTAGAAAACAGAAA
 ATGAATATTCTAAAGAACTTCAGACTGTGCTTCAACGTACCTACGGCCATTGCAGACCAGTGAGAAGTT
 AAGTTCAGCAAACATTTTCATATTTAATGGGAAATCTAGAAGAAATATGTTCTTTCCAGCAAATGCTCGTA
 CAGTCTTTAGAAGAAATGCACCAAGTTGCCCGAAGCTCAGCAGAGAGTCCGAGGGTCTTTTTAAACCTGA
 TGCCACAGATGAAAACCTGTACCTCACGATTTGTGCCAATCACCTTCTGCAGTGAATGCTCACGGGA
 ACACAGTGAGGAGTTGGGGGAGTTCATGGAGACCAAAGGTGCCAGCAGCCCTGGGATTCTCGTGTGACC
 ACGGGCCTGAGCAAACCTTTCATGCGCCTGGATAAATACCCTACGCTGCTCAAAGAGCTCGAGAGACACA
 TGGAGGATTATCATAACAGATAGACAAGATTTCAAAAATCCATGGCTGCCTTCAAAAACCTTTAGCCCA
 ATGTCAAGAAGTCCGGAAGAGGAAAGAGCTTGAGCTGCAGATCCTGACGGAAGCCATCCGGAAGTGGGAG
 GGCGATGACATTAACCTCTGGGCAACGTCACTTACATGTCCAGGTCTGATTCAAGTGTGCCGGAAGTG
 AGGAAAAGAAATGAAAGATATCTTACTCTTCCCAAATGTTTTGCTAATGTTGTCTGCCAGTCTAGGAT
 GAGTGGCTTTATCTATCAGGGAAAGCTTCCAACGACAGGAATGACAATCACAAGCTTGAGGACAGTGAA
 AATCATAGAAATGCATTTGAAATATCAGGGAGCATGATTGAGCGGATATTAGTGTCTGCAACAACCAGC
 AGGATCTGCAGGAATGGGTGGAGCACCTACAGAAGCAAACGAAGGTCACGTCTGTGGAAACCCACCAT
 AAAGCCTCATTCAAGTCCATCTCATACCCTCCCCTCCCACCCGGTCACTCCGTCAGCAAGCACGCAGAC
 AGCAAGCCCGCGCGCTGACGCCCGCTACCACACGCTGCCCCACCCCTCCCACCAGGCACCCCGCACA
 CCACCATCAACTGGGGACCCCTGGAGCCTCCGAAAACACCAAGCCCTGGAGCCTGAGCTGCCTGCGGCC
 CGCGCCTCCCCTCCGGCCCTCAGCTGCTCTGTCTACAAGGAGGATCTTAGTAAGAGCCCTAAGACCATG
 AAAAGCTGCTGCCAAGCGCAAACCTGAACGGAAGCCTTCAAGTGAAGGATTCGCGTCCCGGAAAAGCA
 CAGCTGCTTTGGAAGAAGATGCTCAGATTCTGAAAGTCATTGAAGCTTACTGCACCAGCGCCAAAACAAG
 GCAAACACTCAATTCAACATGGCAAGGCACTGACCTGATGCATAATCACGTCTTGGCTGATGATGACCAA
 CCAAGCCTAGACTCCCTGGGGCGTCGAGTAGCCTTTCTCGTTTGGAGCCTTCAAGCCTCTCGGAAGACT
 CTGACTATGACAGTATATGGACAGCCATAGTTACAGAATGGGTCTACATCTCGTAAGAGCTGTTGCTC
 ATATATCTCTCACCAGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226137 representing NM_001113512
 Red=Cloning site Green=Tags(s)

MNSAEQVTWLITLGVLESPKKTISDPEGFLQASLKDGVVLCRLLELLPGTIEKTFDANDLYQGQNFNK
 VLSSLVTLNKVTADIGLSDSVCARPSSHRIKSFDSLGSQSLHTRTSKLFQGYRSLDMTNSNNQLVVR
 AKFNFQQTNEDELSFSGDVIHVTRVEEGGWEGTLNGRTGWFPSSNYVREVKASEKPVSPKSGTLKSPK
 GFDDTAINKSYYNVVLQNILETENEYSKELQTVLSTYLRLPLQTSEKLSSANISYLMGNLEEICSFQQMLV
 QSLEECKLPEAQQRVGGCFLNLMPPQMKTLTYLCANHPSAVNVLTEHSEELGEFMETKGASSPGILVLT
 TGLSKPFMRDLKYPTLLKELERHMEYHTDRQDIQKSMAAFKNLSAQCQEVKRKRKELELQILTEAIRNWE
 GDDIKTLGNVTYMSQVLIQCAGSEEKNERYL LFPNVLLMLSASPRMSGFIYQGKLPPTGMTITKLEDE
 NHRNAFEISGSMIERILVSCNNQDLQEWVHLQKQTKVTSVGNPTIKPHSVPSHTLPSHPVTPSSKHAD
 SKPAPLTPAYHTLPHPSHHGTPHTTINWGPLEPPKTPKPWSLSCLRPAPPLRPSAALCYKEDLSKSPKTM
 KKLLPKRKRPERKPSDEEFASRKSTAALEEDAQILKVIEAYCTSAKTRQTLNSTWQGTDLMHNVHLADDDQ
 PSLDSLGRSSLSRLEPSDLSSESDYDSIWTAHSYRMGSTSRKSCCSYISHQN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

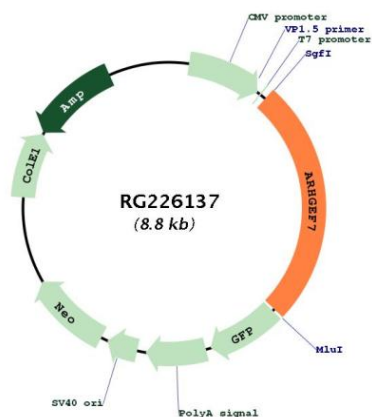


ACCN: NM_001113512

ORF Size: 2259 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_001113512.2</p>
RefSeq Size:	<p>5375 bp</p>
RefSeq ORF:	<p>2262 bp</p>
Locus ID:	<p>8874</p>
UniProt ID:	<p>Q14155</p>
Cytogenetics:	<p>13q34</p>
Protein Pathways:	<p>Regulation of actin cytoskeleton</p>
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>

Product images:



Circular map for RG226137