

Product datasheet for **RG226174**

ARHGEF7 (NM_001113511) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGEF7 (NM_001113511) 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:

>RG226174 representing NM_001113511
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATTCGCCGAGCAAACCGTTACGTGGCTCATCACTCTGGGGTGTGGAGTCGCCAAAAAACCA
 TCTCGGACCCGGAGGGCTTCTGCAGGCGTCGCTGAAGGATGGGGTGGTCTCTGCAGGCTGCTGGAGCG
 CCTGCTCCCCGGGACCATCGAGAAAGTCTACCCGAGCCCGGAGCGAGAGCGAGTGCCTGAGCAACATC
 CGCGAGTTCCTGCGCGGCTGCGGGCTTCCCTGCGGCTGGAGCTCCTGTTTCTCCTTCCCAGCCTCCTC
 AGCATCTGGTAACCACCATTTCTTGTCTGCTTCTACGTTTGTGCAAATGATTTGTATCAGGGGCAGAA
 TTTTAAACAAGTCTCAGTTCCTTAGTGACTCTAAATAAAGTAACAGCAGACATCGGGCTGGGGAGTGAC
 TCCGTGTGTGCCCGCCCTCGTCTACCGCATAAAGTCTTTTGACTCCCTGGATCACAGTCTTTCGACA
 CTCGGACTTCAAACCTGTTCCAGGGCCAGTATCGGAGTTGGACATGACCGATAATAGCAACAATCAACT
 GGTAGTAAGAGCAAAGTTAACTTCCAGCAGACCAATGAGGACGAGCTTTCCTTCTCAAAGGAGACGTC
 ATCCATGTCAACCGTGTGGAAGAGGGAGGCTGGTGGGAGGGCACACTCAACGGCCGACCGGCTGGTTCC
 CCAGCAACTACGTGCGCGAGGTCAAGGCCAGCGAGAAGCCTGTGTCTCCCAAATCAGGAACACTGAAGAG
 CCCTCCCAAAGGATTTGATACGACTGCCATAAAACAAAGCTATTACAATGTGGTGTACAGAATATTTTA
 GAAACAGAAAAATGAATATTCTAAAGAACTTCAGACTGTGCTTTCACCGTACCTACGGCCATTGCAGACCA
 GTGAGAAGTTAAGTTCAGCAAACATTTTCATATTTAATGGGAAATCTAGAAGAAATATGTTCTTCCAGCA
 AATGCTCGTACAGTCTTTAGAAGATGCACCAAGTTGCCGAAGCTCAGCAGAGAGTCCGAGGCTGCTTT
 TTAACCTGATGCCACAGATGAAAACCTGTACCTCACGTATTGTGCAAATCACCTTCTGCAGTGAATG
 TCCTCACGGAACACAGTGAGGAGTTGGGGAGTTCATGGAGACCAAAGGTGCCAGCAGCCCTGGGATTCT
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 GAGAGACACATGGAGGATTATCATAACAGATAGACAAGATATTCAAAAATCCATGGCTGCCTTCAAACCC
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 GAACTGGGAGGGCGATGACATTAACCTCTGGGCAACGCTCACTTACATGTCCAGGCTCTGATTAGTGT
 GCCGGAAGTGAGGAAAAGAATGAAAGATATCTTACTCTTCCAAATGTTTTGCTAATGTTGTCTGCCA
 GTCCTAGGATGAGTGGCTTTATCTATCAGGAAAGCTTCAACGACAGGAATGACAATCACAAAGCTTGA
 GGACAGTGAATAATAGAAAATGCATTTGAAATATCAGGGAGCATGATTGAGCGGATATTAGTGTCTGTC
 AACACCAGCAGGATCTGCAGGAATGGGTGGAGCACCTACAGAAGCAAACGAAGTCCAGTCTGTGGGAA
 ACCCCACCATAAAGCCTATTAGTGCATCTCATACCCTCCCCTCCCACCCGGTCACTCCGTCCAGCAA
 GCACGCAGACAGCAAGCCCGCGCGCTGACGCCCGCTACCACACGCTGCCCCACCCCTCCCACCACGGC
 ACCCCGCACACCACCATCAACTGGGGACCCCTGGAGCCTCCGAAAACACCCAAGCCCTGGAGCCTGAGCT
 GCCTGCGGCCCGCGCTCCCCTCCGGCCCTCAGCTGCTCTCTGCTACAAGGAGGATCTTAGTAAGAGCCC
 TAAGACCATGAAAAAGCTGCTGCCAAGCGCAAACCTGAACGGAAGCCTTCAGATGAGGAGTTCGCGTCC
 CGGAAAAGCACAGCTGCTTTGGAAGAAGATGCTCAGATTCTGAAAGTCATTGAAGCTTACTGCACCAGCG
 CAAAAACAAGGCAAACTCAATTCAACATGGCAAGGCACTGACCTGATGCATAATCACGCTTGGCTGA
 TGATGACCAACCAAGCCTAGACTCCCTGGGGCGTCGCAGTAGCCTTTCTCGTTTGGAGCCTTCAGACCTC
 TCGGAAGACTCTGACTATGACAGTATATGGACAGCCCATAGTTACAGAATGGGTTCTACATCTCGTAAGA
 GCTGTTGCTCATATATCTCTCACCAGAAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG226174 representing NM_001113511
Red=Cloning site Green=Tags(s)

MNSAEQVTWLITLGVLESPKKTISDPEGFLQASLKDGVVLCRLLERLLPGTIEKVYPEPRSESECLSNIREFLRGCASLRLELLFPPSQPPQHLVTTILLASTFDANDLYQGQNFNKVLSLVTLNKVTADIGLGSDSVCARPSSSHRIKSFDSLGSQSLHTRTSKLFQGGYRSLDMTDNSNNQLVVRAKFNFQQTNEDELSFSKGDV
IHVTRVEEGGWEGTLNGRTGWFPSSNYVREVKASEKPVSPKSGTLKSPPKGFDTTAINKSYYNVVLQNIL
ETENEYSKELQTVLSTYLRLPLQTSEKLSSANISYLMGNLEEICSFQQMLVQSLEECTKLPEAQQRVGGCF
LNLMPQMKTLYLTYCANHPSAVNVLTEHSEELGEFMETKGASSPGILVLTGLSKPFMRLDKYPTLLKEL
ERHMEDYHTDRQDIQKSMAAFKNLSAQCQEVRRKKELELQILTEAIRNWEGDDIKTLGNVTYMSQVLIQC
AGSEEKNERYL LFPNVLLMLSASPRMSGFIYQGKLPPTGMTITKLESENHRNAFEISGSMIERILVSC
NNQQDLQEWVEHLQKQTKVTSVGNPTIKPHSVPSHTLPSPVTPSSKHADSKPAPLTPAYHTLPHPSHHG
TPHTTINWGPLEPPKTPKPWSLSCLRPAPPLRPSAALCYKEDLSKSPKTMKLLPKRKPERKPSDEEFAS
RKSTAAL EEDAQILKVEIAYCTSAKTRQTLNSTWQGTDLMHNHVLADDDQPSLDSLGRSSLSRLEPSDL
SESDYDSIWT AHSYRMGSTSRKSCCSYISHQN

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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: [NM_001113511.2](#)

RefSeq Size: 5525 bp

RefSeq ORF: 2412 bp

Locus ID: 8874

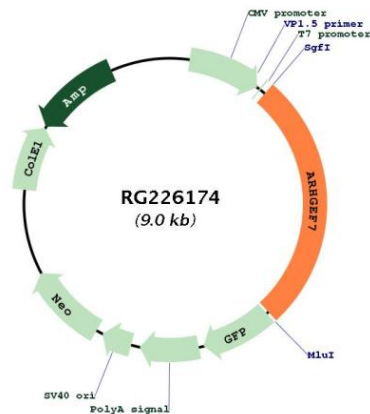
UniProt ID: [Q14155](#)

Cytogenetics: 13q34

Protein Pathways: Regulation of actin cytoskeleton

Gene Summary: 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]

Product images:



Circular map for RG226174