

Product datasheet for **RG217628**

ARHGEF37 (NM_001001669) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGEF37 (NM_001001669) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARHGEF37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG217628 representing NM_001001669
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCCAAGCATGGAGCCGACGAGCCATCTCCAGGTCAGGGAGTCCGGACAGGGAAGGTAGGGCCTCTG
AGGACAGATCGCTGCTTCATCAGAGGCTGGCTGTCCGGGAGCTCATCGACTGAGGTCTCTACTTGCA
CATGCTCCAGCTCTGTGCCCTGTACATCAGGAGCCGCCTCCAGCAGTTGCCGAGGGAGATCTGGATGTC
CTGTTCTCAAACATTGATGATATCATCAAAGTGAACAGCAGATTCTCCATGATCTGCAGGAGACAGCCT
CCAAGGAAGAGGAACAAGTGCAGCTAGTTGGTAACATATTTCTGGAATTCGAAGAGGAGTTGGAGCAAGT
CTATAAGGTCTACTGTGCCAGCTACGACCAGGCCCTTGCTACTGGTGGACACGTACCGGAAGGAGCCGGAG
CTGCAGCGGCACATCCAGGGCATCGTTGAGGCGGTGGTCCGCAAGCTGGATCTTCAGGCCTCAGTTTCT
TGCTGGTAATTCCTCTGCAGAGGATCACCAGGTACCCACTGCTGCTGCAGAAAATCTGGAGAACACAGT
CCCTGATGCCAGTGCCTATCCTGTCCTCAGAGGGCTGTCTCTGCCCTCCAGGACGTGAACACCAATATC
AATGAGTACAAGATGCGCAAGGAAGTGGCTCCAAGTACACCAAGGTAGAGCAGCTGACCCTCCGGGAGC
GGCTGGCCCGCATCAACACACACACCCTCTCCAAGAAGACCACCCGGCTGAGCCAGCTGTGAAGCAGGA
GGCGGGGCTGATCCCCAGGACAGAAGACAAGGAATTTGATGATTTAGAAGAGAGGTTCCAGTGGGTGCT
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TCACCTTGAGGCCTTCTGAAATTTAAGCAACGGCTAGAAGGCCCTGGTGTGGCAGCCACTGTGCAGCCTG
GCCAAAGCCCTGCTTGGCCCTCAGAACCTGATCAAGAAGCGTCTGGACAAGCTACTGGACTTTGAGCGGG
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CTTCCAGGGTCTGAACGCCAGGTGCAGGCTCTCCTGAGCAGGTATGGCCCTGGGAAGCTGTACCAGGTGA
CAAGCAACATCAGTGGGACTGGGACTCTGGACCTGACTCTGCCTCGGGGCCAAATCGTGGCCATCCTTCA
AAACAAGGACACCAAAGGCAACAGCGGCCGCTGGCTGGTGGACACCGGGGACATCGTGGGTATGTGCCG
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CATAGCCGCTACCCTTTTGTGGCCAGAAGCAGCCATGAAGTGAAGTGCAGGCAGGCCAGCCTGTGACC
ATCCTGGAGGCCAGGACAAGAAGGGGAACCCTGAGTGGAGCCTGGTGGAAAGTGAATGGACAGAGGGGT
ATGTGCCCTTCTGGCTTCTTGCCAGGGCTCGGAGCCAGTTCTGTGGGCTGGAGTCTGCCCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217628 representing NM_001001669
 Red=Cloning site Green=Tags(s)

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MAKHGADEPSSRSGSPDREGRASEDRSL LHQRLAVRELIDTEVSYLHMLQLCASDIRSRLQQLPQGDL DV
LFSNIDDIKVN SRFL HDLQETASKEEQVQLVGNIFLEFQEELEQVYKVCASYDQALLLVDTYRKEPE
LQRHIQGI VEAVVPQAGSSGLSFL LVIPLQRITRYPLLLQKILENTVPDASAYPVLQRAVSALQDVNTNI
NEYKMRKEVASKYTKVEQLTLRERLARINTHTLSKKTTRLSQLLKQEAGLIPRTEDKEFDDLEERFQWVS
LCVTE LKNNVAAYLDNLQAFLYFRPHEYNDIPEGPAVQYCNLARDLHLEAF LKFKQRLEGLVWQPLCSL
AKALLGPQNL IKKRLDKLLDFERVEEKLLLEVGSVTYQEEAARHTYQALNSLLVAELPQFNQLVMQWLQGI
MCTFVTLQRDLAKQVLQRAEGSMAQLPHHHVPEPAFRKLVEDALGRTSNQLRSFQETFEKVQPPPTTQPL
LPGSERQVQALLSRYGPKLYQVTSNISGTGLDLTLPRGQIVAILQNKDTKNSGRWLVD TGGHRGYVP
AGKLQLYHVVPSAEELRRQAGLNKDPRCLTPEPSALVPSIPTMNQVIAAYPFVARSSHEVSLQAGQPVT
I LEAQDKKGNPEWSLVEVNGQRGYVPSGFLARARSPVLWGWSLPS
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001001669

ORF Size: 2025 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_001001669.3](#)

RefSeq Size: 4865 bp

RefSeq ORF: 2028 bp

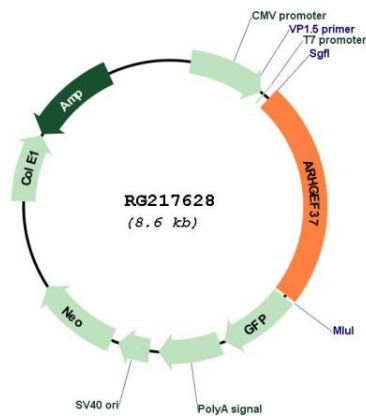
Locus ID: 389337

UniProt ID: [A1IGU5](#)

Cytogenetics: 5q32

Gene Summary: May act as a guanine nucleotide exchange factor (GEF).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG217628