

Product datasheet for **RG234871**

ARHGEF38 (NM_001242729) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ARHGEF38 (NM_001242729) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARHGEF38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234871 representing NM_001242729
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCCCAAAGAAGCCACTGGGAAAGAAAACATGGTCACCAAGAAAAAGAATCTGGCCTTCTTGAGGT
 CTAGACTCTATATGCTGGAGAGAAGGAAGACTGACACTGTGGTTGAGAGCAGTGTCTCTGGGACCCTC
 TGGCACCTTGAGGAGGAGCCAATCTGACAGGACCGAATAACAACCAGAAATTACAAGAAAAGATGACTCCA
 CAGGGTGAGTGTCTGTAGCTGAGACCTTAACCCAGAGGAAGAGCATCATATGAAGAGGATGATGGCAA
 AGCGGGAAAAGATCATTAAAGGAGCTGATACAGACAGAAAAGGATTATCTCAATGATCTAGAGCTGTGTG
 TAGGGAAGTGGTTCAGCCCTGAGAAATAAAAAGACTGATAGGCTGGATGTGGATAGCTTGTGTTAGCAAC
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 GCTCTTTGATGATCAAACCAATCAACGTGTGATGAAATACCCCTATTACTGTGCGAACTTCGGAATTC
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 CCTAAGTGGCAATAAAGAGTGGTGGTTAGCTGAAGCTCAAGGGCAGAAAGGATACGTGCCAGCTAACTAC
 CTTGAAAAGATGACTTATGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234871 representing NM_001242729
Red=Cloning site Green=Tags(s)

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MEPKEATGKENMVTKKKNLAFLRSRLYMLERRKTDTVVESSVSGDHSGLRRSQSDRTEYNQKLQEKMTP
QGECVAETLTPEEEHHMKRMMAKREKIKELIQTEKDYLNDELVCVREVVOPLRNKKTDRLDVDSLFSN
IESVHQISAKLLSLEEATTDVEPAMQVIGEVFLQIKGPLEDIYKIYCYHHDEAHSILESYEKEEELKEH
LSHCISQLKKIYMQEGKPNLLDMGSLMIKPIQRVMKYPLLLCELNRNTPPSHPDYRALDDAFAAVKDINV
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ALEKTVRLCVKNIISLCLQHIQDAMPLALQSYMDLQEI SYNKDDMDYSETLSNALNSCHDFASHLQRLIL
TPLSALLSLFPGPHKLIQKRYDKLLDCNSYLQRSTGEESDLAKKEYEALNAQLVEELQAFNQAARKILLN
CLCSFITLLRDLMLVAQQAYSTLVPMPLLVSSISEIQNVLEEIQNLNCVKENSATFIERKLSFEKKKPV
QILPEMPHQTDIHRSKLLSTYSAEELYQAKRKC NATQEYDINLLEGLVAVIEQKDP LGSTSRWL VDTGN
VKGYYVSSFLKPYNPAKMQKQVDAENRF CDDDFENISL FVSSRPASDSVTGTSESSIGDSSSSL SGTCKGF
ETNGTDVDSFQEVDEQIF YAVHAFQARSDEL SLQEYQRVHILRFCDLSGNKEWWLAE AQGQKGYVPANY
LGKMTYA
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



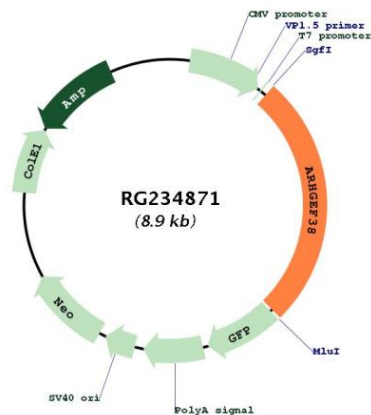
ACCN: NM_001242729

ORF Size: 2331 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:	<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:	<u>NM_001242729.2</u>
RefSeq Size:	5456 bp
RefSeq ORF:	2334 bp
Locus ID:	54848
UniProt ID:	<u>Q9NXL2</u>
Cytogenetics:	4q24
Gene Summary:	May act as a guanine-nucleotide releasing factor.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RG234871