

Product datasheet for **RG207435**

Rho guanine exchange factor 15 (ARHGEF15) (NM_173728) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rho guanine exchange factor 15 (ARHGEF15) (NM_173728) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rho guanine exchange factor 15
Synonyms:	ARGEF15; E5; Ephexin5; Vsm-RhoGEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG207435 representing NM_173728
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCAGCCCAGTCCCTTCTGCAGCAACACCCCCACGCAGAAGCCCCCTGGATCATCCGCCCCCGCC
CTCCTTCTCGTTCCAGGGCTGCCAGTCCCAGGGCTCCCACAATGGCTCCTCCTCACAAAGAACTACC
CCGAAACTCCAATGATGCACCAACCCCAATGTGCACCCCATCTTCTGGGAGCCCCAGTGCATCCCTC
AAGCCCCCTGCTCTTTGCCCCCTCAGCTTCTAGAGCCAGCCTCGACTCCCAGACTTCCCAGACTCAC
CTTCCAGACCCCCACACCTAGTCCAGTGTCCGGCGCTCCGCCTCCCAGAACCTGCTCCCGGTCTCC
AGTCCCCCACCACAGCCGTCTGGGTACCCTGCACGCCTCTGCTCCCCATGGCTGGAGTCTGGCTCAG
AATGGCTCTGCCTCAGCTCCTGGCACTGTGCGGAGGCTGGCTGGCAGTTTGAAGGGGTGCTGAAGGCC
GGGCTCAGGATGCAGATGCCCGGAGCCAGGTCTCCAAGCGAGAGCAGATGTGAATGGGAGAGAGAAGC
TCCCTCACCGGGAGTGGGTCCCAGGAGAACGGTCTCCAGATGTGGCTGGCTGCCCTCCCTCCCTGCTGC
CCCTGTGTCTGCCACACCACCGCCTGGCCTGGAGCTCAGATGGGTGCCTGTGGGGGGCTATGAGGAGG
TCCCCAGGGTCCCCGTGGGCCCTCCCCGCTGCGGACCTCTCGCTCCCGCCCCACCCTCCAAGCATCGG
TCAACCCTGCCGTTGTCTCACATCTACCCTCCACTGCTGAGCGCAAACCTCTGCCACTCCTCAAGCCT
CCCAAACCAACTCGTGTCCAGGAGGATGCCACCATTTTCGGGGACCCCCACAGCCAGATCTTGATCTGC
TTTCTGAAGATGGAATCCAAACAGGGGACAGTCTGATGAAGCTCCTCAGAATACTCCTCCAGCAACTGT
GGAGGGGAGGGAAGAGGGAGGGGCTAGAGGTGCTGAAGGAGCAGAATTGGGAGTGCCCTGCAGGATGAA
CCTCTGTACCAGACCTACCGAGCAGCCGTGCTGCAGAGGAGCTGTGGGGGTGGGTGAGGATGGGAGTC
TTTCTCAGCAAATGCTGGAGATGCACCCACCTTCCCACGACCCCTGGACCTCGCAACACCCCTGTGGCA
GGAGCTTCCGGCTGTGCAAGCCAGCGGTCTTCTGGATACCCTCAGCCCCAGGAGAGGCGCATGCAGGAG
AGTCTTTTCGAGGTGGTACGTCAGGCTTCTACCTGCGCTCCTGCGGCTGCTGACCGACACCTTCG
TGCTGAGCCAGGCACTCCGGGACACGCTCACCCCCGTGATCACCAACACTCTTCTCCAATGTGCAGCG
AGTCCAGGGAGTCCAGCGAGCGTCTAGCAACGCTCCTGTCCCGTGTGCGCTCTTCCCCCACATCAGC
GACTTGTGTGATGTGGTGCATGCCACGCTGTGGGGCTTTCTCGGTGTATGTGGATTATGTGCGGAACC
AGCAGTATCAGGAGGAGACCTACAGCCGCTCATGGACACCAACGTGCGCTTCTCCGCCGAGCTGCGCCG
GCTGCAGAGCCTCCCTAAGTGTGAGCGGCTCCCGTCCCGTCTTCTGCTACTGCCCTTCCAGCGCATC
ACCCGGCTGCGCATGCTGCTGCAGAATATCCTGCGCCAGACAGAAGGGGTCCAGCCGTCCAGGAGATG
CCCAGAAGGCCCTGGGTGCTGTCAGCAAGATCATCGAGCGTTGCAGCGCTGAGGTGGGGCGCATGAAGCA
GACTGAAGAGCTGATCCGGCTCACCCAAAGGCTGCGCTTCCACAAAGTCAAGGCCCTGCCCTGGTCTCC
TGGTCACGGCGCCTGGAATTCAGGGAGAGTGAAGTGTAGGGTCCGGAGGGGGGGCGTCTTTG
CCTCGGCCCCCGCTTACCCCTCTTTGCTGCTGCTTTAGCGACCTGCTGCTCATCACTCAGCCTAA
GAGTGGGAGCGGTTACAGGTTCTGACTATGCCATCGCTCCCTGGTCCAGGCCAGCAGGTTCCGGAT
CCATCTGGACCCCTACCTTCCGCTCTCCCTTCTCAGCAACCACAGGGCCGCCACCCACCGACTAC
TCCAAGCTTCTCCCTATCAGACATGCAGCGCTGGTGGGAGCCTTCCAACCCAGGCCCTTCCCTG
CTCCCCAGACACCATCTATGAGGACTGTGACTGTTCCAGGAACGTGTTTCAGAGTGTCTGCACCTGCC
AAGACTGAAGGACGGAGTCTGGAGTCCAGGGCTGCCCAACACCTGCACAAGACCCTGAAGGTTGGC
TGAAGGGGCTTCTGGGGCTTCCCTGCCAGCTGGTGTGTAAGTACAGGGGAACACGAAGGAGGAG
GCACCTTCGCCAGAACCAGAGGCTTCTCGAGGCTGTTGGATCTTCTCAGGCACCCCAATGCCCCCA
CCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG207435 representing NM_173728
 Red=Cloning site Green=Tags(s)

```
MSAQLPAATPPTQKPPRIIRPRPPSRRAAQSPGPPHNGSSPQELPRNSNDAPTPMCTPIFWEPAAASL
KPPALLPPSASRASLDSQTSPPSPSSTPTSPVSRRSASPEPAPRSPVPPPKPSGSPCTPLLPAGVLAQ
NGSASAPGTVRRLAGRFEGGAEGRAQDADAPEGLQARADVNGEREAPLTGSGSQENGAPDAGLACPPCC
PCVCHTTRPGLELRWVPVGGYEEVPRVPRRASPLRTSRSRPHPPSIGHPAVVLTYSRSTAERKLLPLLKP
PKPTRVRQDATIFGDPPQPDLLLEDGIQTGDSPEAPQNTPPATVEGREEEGLEVLKEQNWELPLQDE
PLYQTYRAAVLSEELWGVGEDGSPSPANAGDAPTFPRPPGPRNTLWQELPAVQASGLLDTLSPQERRMQE
SLFEVVTSEASYLRSLRLLTDTFVLSQALRDTLTPRDHHTLFSNVQRVQGVSERFLATLLSRVRSSPHIS
DLCDVVHAHAVGPFVYVYVRNQYQEETYSRLMDTNVRFSAELRRLQSLPKCERLPLPSFLLLPFQRI
TRLRMLLQNILRQTEEGSSRQENAQKALGAVSKIIERCSAEVGRMKQTEELIRLTQRLRFHKVKALPLVS
WSRRLEFQGELTELGCRGGVLFASRPRFTPLCLLLFSDLLLITQPKSGQRLQVLDYAHSLVQAQQVDP
PSGPPTFRLSLLSNHQGRPTHRLQASSLSDMQRWLGAFPTPGPLPCSPDTIYEDDCDSQELCSESSAPA
KTEGRSLESRAAPKHLHKTPGWLKGLPGAFPAQLVCEVTGEHERRRHLRQNQRLLLEAVGSSSGTPNAPP
P
```

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_173728.4](#)

RefSeq Size: 4261 bp

RefSeq ORF: 2526 bp

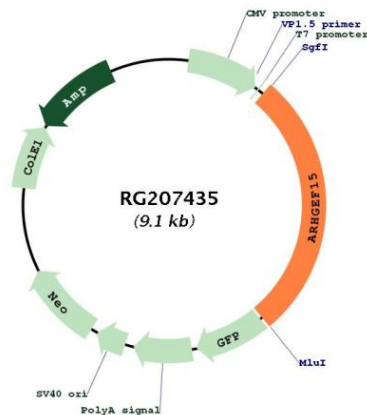
Locus ID: 22899

UniProt ID: [O94989](#)

Cytogenetics: 17p13.1

Gene Summary: Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein-coupled receptors. This gene encodes a protein that functions as a specific guanine nucleotide exchange factor for RhoA. It also interacts with ephrin A4 in vascular smooth muscle cells. Two alternatively spliced transcripts variants that encode the same protein have been found for this gene. [provided by RefSeq, Aug 2010]

Product images:



Circular map for RG207435