

## Product datasheet for **RG212664**

### ARHGEF10L (NM\_001011722) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ARHGEF10L (NM\_001011722) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ARHGEF10L  
**Synonyms:** GrinchGEF  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG212664 representing NM\_001011722  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTTCCTCCAACCTCCTCCACAGCCTGCCATAGGAGATCAGCTGGTTCCAGGAGTCCAGGCCCT  
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 ATCCCTGTCACTGACCCAGACCCAGCAGCTGCTCCACCCGGCACAGGGGTGCCAGCCTGGGTGAGCAATG  
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 TGACCGGTTCACTTTCCCGCCCTGGAAGAGGATGTGATTTATGACGACGTCCTCCGAGAGCCAGAT  
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 GAAGGAGATCCTGCACTGCCACTCCATGTTCCAGATCGCCCTGTCTCCCGCTGGCTGAGTGGATTCC  
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TTGACCTCAGGCCAGCGCAGCTGCTCCTGTGTGAGACGTTGACGGAGACCGTGTACGGTGACCGGGG  
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CCTCGGCCCCCAGCCCTCTCCAGGAGCTGCAGGACCTACCAGAACCTGAACATGACTGTGGCTCAAGACTGGTGCC  
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GCCACCCAAGGAGATTTGCTCTGTGGCCATCATCTCCGGCGGGCAGGGCTACCGCAACTTTGGCAGCG  
CTCTGGGCAGCAGTGGGAGGCAGCCCCGTGTGGGGAGACGGACAGCACCCCTCTCATCTGGCAGGTGCC  
CTTGATGCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG212664 representing NM\_001011722  
 Red=Cloning site Green=Tags(s)

MASSNPPPPQPAIGDQLVPGVPGPSSEAEEDDPGEAFEFDDSDDEEDTSAALGVPSLAPERDTPPLIHLDS  
 IPVTDPPDPAAPPPTGVPAAWVNSGDAADAASFSGARHSSWKRKSSRRIDRF TFPAL EEDVIYDDVPCESPD  
 AHQPGAERNLLYEDAHRAGAPRQAEDLWSSSEFEYSYSEDSGEEAKPEVEVEPAKHRVSVFQPKMTQLMKA  
 AKSGTKDGLKTRMAVMRKVSFLHRKDVLDGSEEDMGLLEVSVDIKPPAPELGPMPEGLSPQQVVRRL  
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 TEKIGDLFVASFSKSMVLDVYSYVNNFTSAMSIIKKA CLTKPAFLEFLKRRQVCSPDRVTLYGLMVKPI  
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 VKAGSGVWMAFSSGTSIRLFHTETLEHLQEINIATRFTFLLPQKHL CVTSLLICQGLLWVGTQGVIVL  
 LPVPRLEGIPKITGKGMVSLNGHCGPVAF LAVATSILAPDILRSDQEEAEGPRAEEDKPDGQAHEMPD  
 HVGRELTRKKGILLQYRLRSTAHLPGPLL SMREPAPADGAALHSEEDGSIYEMADDPDIWVRSR CARD  
 AHRKEICSVAIISGGQGYRNFGSALGSSGRQAPCGETDSTLLIWQVPLML

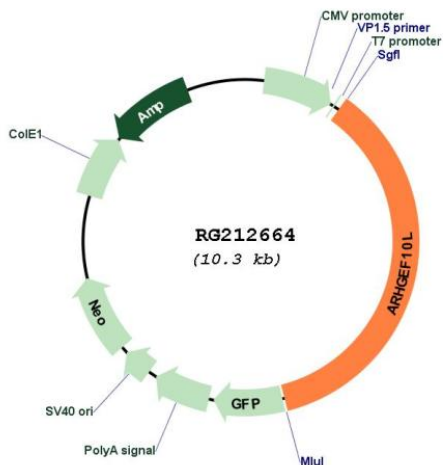
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001011722

**ORF Size:** 3720 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\\_001011722.2](#), [NP\\_001011722.2](#)

**RefSeq Size:** 4269 bp

**RefSeq ORF:** 3723 bp

**Locus ID:** 55160

**UniProt ID:** [Q9HCE6](#)

**Cytogenetics:** 1p36.13

**Gene Summary:** This gene belongs to the RhoGEF subfamily of RhoGTPases. Members of this subfamily are activated by specific guanine nucleotide exchange factors (GEFs) and are involved in signal transduction. The encoded protein shows cytosolic distribution. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2016]