

## Product datasheet for **RG233427**

### RhoGDI (ARHGDI) (NM\_001185077) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RhoGDI (ARHGDI) (NM\_001185077) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ARHGDI  
**Synonyms:** GDIA1; HEL-S-47e; NPHS8; RHOGDI; RHOGDI-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG233427 representing NM\_001185077  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGAGCAGGAGCCACAGCCGAGCAGCTGGCCAGATTGCAGCGGAGAACGAGGAGGATGAGCACT  
 CGGTCAACTACAAGCCCCGGCCAGAAGAGCATCCAGGAGATCCAGGAGCTGGACAAGGACGACGAGAG  
 CCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCTGGCCGTTCCGACACCCCAACGTCCCAACGTC  
 GTGGTACTGGCCTGACCCTGGTGTGCAGCTCGGCCCGGCCCTGGAGCTGGACCTGACGGGCGACC  
 TGGAGAGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAAATCTCTTCCG  
 GGTTAACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACGTACAGGAAAGGCGTCAAGATTGAC  
 AAGACTGACTACATGGTAGGCAGCTATGGGCCCGGGCCGAGGAGTACGAGTTCCTGACCCCGTGGAGG  
 AGGCACCAAGGGTATGCTGGCCCGGGGACGCTACAGCATCAAGTCCCGCTTACAGACGACGACAAGAC  
 CGACCCTGTCTGGGAGTGGAAATCTACCATCAAGAAGGACTGGAAGGAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG233427 representing NM\_001185077  
 Red=Cloning site Green=Tags(s)

MAEQEPTAEQLAQIAAENEDEHSVNYKPPAQKSIQEIQLDKDDESLRKYKEALLGRVAVSADPNV  
 VVTGLTLVCSAPGPLELDLTGDLESFVKQSFVLKEGVEYRIKISFRVNRREIVSGMKYIQHTYRKGVKID  
 KTDYMGVSYGPRAEYEFLLTPVEEAPKGLARGSYSIKSRFTDDDKTDHLSWEWNLTIKKDWKD

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

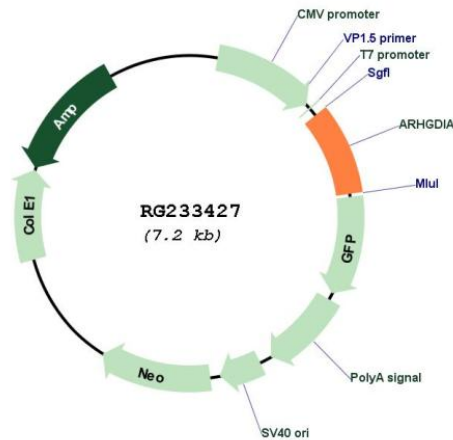


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001185077

ORF Size: 612 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\\_001185077.3](#)

**RefSeq Size:** 2126 bp

**RefSeq ORF:** 615 bp

**Locus ID:** 396

**UniProt ID:** [P52565](#)

**Cytogenetics:** 17q25.3

**Protein Families:** Druggable Genome

**Protein Pathways:** Neurotrophin signaling pathway

**Gene Summary:** This gene encodes a protein that plays a key role in the regulation of signaling through Rho GTPases. The encoded protein inhibits the disassociation of Rho family members from GDP (guanine diphosphate), thereby maintaining these factors in an inactive state. Activity of this protein is important in a variety of cellular processes, and expression of this gene may be altered in tumors. Mutations in this gene have been found in individuals with nephrotic syndrome, type 8. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]