

## Product datasheet for **RG231004**

### RhoGDI (ARHGDI) (NM\_001185078) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** RhoGDI (ARHGDI) (NM\_001185078) 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:** >RG231004 representing NM\_001185078  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGAGCAGGAGCCACAGCCGAGCAGCTGGCCAGATTGCAGCGGAGAACGAGGAGGATGAGCACT  
 CGGTCAACTACAAGCCCCGGCCAGAAGAGCATCCAGGAGATCCAGGAGCTGGACAAGGACGACGAGAG  
 CCTGCGAAAGTACAAGGAGGCCCTGCTGGCCGCGTGGCCGTTCCGCAGACCCCAACGTCCCAACGTC  
 GTGGTACTGGCCTGACCCTGGTGTGCAGCTCGGCCCGGCCCCCTGGAGCTGGACCTGACGGGCGACC  
 TGGAGAGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGAGGTGTGGAGTACCGGATAAAAACTCTTTCCG  
 GGTTAACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACGTACAGGAAAGGCGTCAAGAACGAC  
 GACAAGACCGACCACCTGTCTGGGAGTGAATCTCACCATCAAGAAGGACTGGAAGGAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG231004 representing NM\_001185078  
 Red=Cloning site Green=Tags(s)

MAEQEPTAEQLAQIAAENEDEHSVNYKPPAQKSIQEIQELDKDDESLRKYKEALLGRVAVSADPNV  
 VVTGLTLVCSAPGLELDLTGDLESFKKQSFVLKEGVEYRIKISFRVREIVSGMKYIQHTYRKGVKND  
 DKTDHLSWEWNLTIKKDWKD

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001185078.3</a>
<b>RefSeq Size:</b>	1824 bp
<b>RefSeq ORF:</b>	483 bp
<b>Locus ID:</b>	396
<b>UniProt ID:</b>	<a href="#">P52565</a>
<b>Cytogenetics:</b>	17q25.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Neurotrophin signaling pathway
<b>Gene Summary:</b>	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]