

Product datasheet for **RG237549**

RhoGDI (ARHGDI) (NM_001301242) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RhoGDI (ARHGDI) (NM_001301242) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RhoGDI
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:	>RG237549 representing NM_001301242. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTGAGCAGGAGCCACAGCCGAGCAGCTGGCCAGATTGCAGCGGAGAACGAGGAGGATGAGCAC
TCGGTCAACTACAAGCCCCGGCCAGAGAGCATCCAGGAGATCCAGGAGCTGGACAAGGACGACGAG
AGCCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCGTGGCCGTTTCCGAGACCCCAACGTCCCCAAC
GTCGTGGTGACTGGCCTGACCCTGGTGTGCAGCTCGGCCCGGGCCCCCTGGAGCTGGACCTGACGGGC
GACCTGGAGAGCTTCAAGAAGCAGTCGTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAATCTCT
TTCCGGGTTAACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACTACAGGAAAGCGTCAAG
ATTGACAAGACTGACTACATGACGACGACAAGACCGACCCTGTCTGGGAGTGGAAATCTCACCATCA
AGAAGGACTGGAAGGACTGAGCCAGCCAGAGGCGGGCAGGGCAGACTGACGGACGGACGACGGACAGG
CGGATGTGTCCCCCAGCCCCCTCCCCTCCCCATACCAAAGTGCTGACAGGCCCTCCGTGCCCTCCCA
CCCTGGTCCGCTCCCTGGCCTGGCTCAACCGAGTGCCTCCGACCCCCCTCCTCAGCCCTCCCCACCC
ACAGGCCAGCCTCCTCGGTCTCCTGTCTGCTGTTGCTGCTGCTGCTGTTGGGGGAGAGAGGGCCGC
AGCCAGGCCTCTGCTGCCCTTTCTGTGCCCCAGGTTCTATCTCCCGTACACCCGAGGCCTGGCTT
CAGGAGGGAGCGGAGCAGCCATTCTCAGGCCCGTGGTTGCCCTGGACGTGTGCGTCTGCTGCTCCG
GGGTGGAGCTGGGTGTGGGATGCAGGCCTCGTGGGGCGGGCCGCTCCTCCAGCCCCGCTGCTCCCT
GGCCAGCCCCCTTGTGCTGTCGGTCCCGTCTAACCATGATGCCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237549
 Blue=ORF Red=Cloning site Green=Tag(s)

MAEQEPTAEQLAQIAAENEDEHSVNYKPPAQKSIQEIQLDKDDESLRKYKEALLGRVAVSADPNVNP
 VVVTGLTLVCSSAPGLELDLTDGLESFKKQSFVLKEGVEYRIKISFRVNREIVSGMKYIQHTYRKGVK
 IDKTDYMTTTRPTTCPGSGISPSRRTGRTEPSQRRAGQTDGRTTDRRMCPQPLSPYQSAADRPVPLP
 PWSASLAWLNRVPPTPLLSPPPPTGPASSVSCLVAASACAVGERGRSQASAALSVPFRFYLPVTPEAWL
 QEGAEQPF SRPRGCPWTCASAAPGWSWVGCTASWGPGRPPAPLLPGQPPCRCSRLTMMP
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001301242

ORF Size: 1011 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).

RefSeq: [NM_001301242.2](#)

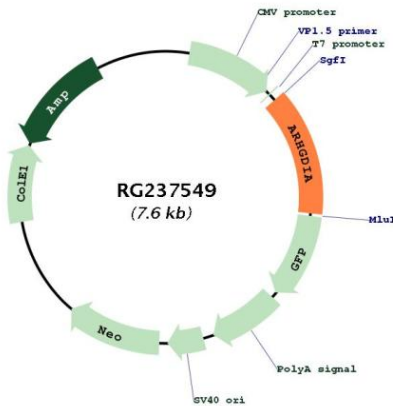
RefSeq Size: 1808 bp

RefSeq ORF: 1014 bp

Locus ID: 396
UniProt ID: [P52565](#)
Cytogenetics: 17q25.3
Protein Families: Druggable Genome
Protein Pathways: Neurotrophin signaling pathway
MW: 37 kDa

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]

Product images:



Circular map for RG237549