

Product datasheet for **RG236789**

RhoGDI (ARHGDI) (NM_001301240) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RhoGDI (ARHGDI) (NM_001301240) 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:	>RG236789 representing NM_001301240. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGAGCAGGAGCCACAGCCGAGCAGCTGGCCAGATTGCAGCGGAGAACGAGGAGGATGAGCAC
TCGGTCAACTACAAGCCCCGGCCAGAGAGCATCCAGGAGATCCAGGAGCTGGACAAGGACGACGAG
AGCCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCGTGGCCGTTTCCGAGACCCCAACGTCCCCAAC
GTCGTGGTGACTGGCCTGACCCTGGTGTGACGCTCGGCCCGGGCCCCCTGGAGCTGGACCTGACGGGC
GACCTGGAGAGCTTCAAGAAGCAGTCGTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAATCTCT
TTCCGGGTTAACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACTACAGAAAGCGTCAAG
ATTGACAAGACTGACTACATGGTAGGCAGCTATGGGCCCGGGCCGAGGAGTACGAGTTCCTGACCCCC
GTGGAGGAGGCACCCAAGGGTCTATCTCCCCGTACACCCGAGGCCCTGGCTTCAGGAGGAGCGGAGC
AGCCATTCTCCAGGCCCGTGGTTGCCCTGGACGTGTGCGTCTGCTGCTCCGGGGTGGAGCTGGGGTG
TGGGATGCACGGCCTCGTGGGGCCGGCCGCTCTCCAGCCCCGCTGCTCCCTGGCCAGCCCCCTTGTG
GCTGTCCGGTCCCGTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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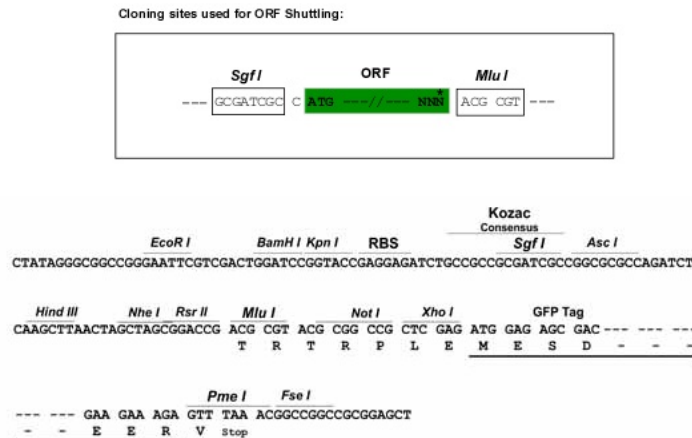
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG236789
 Blue=ORF Red=Cloning site Green=Tag(s)

MAEQEPTAEQLAQIAAENEDEHSVNYKPPAQKSIQEIQLDKDDESLRKYKEALLGRVAVSADPNVFN
 VVVTGLTLVCSSAPGPLELDLTGDLESFKKQSFVLKEGVEYRIKISFRVNREIVSGMKYIQHTYRKGVK
 IDKTDYMGVSGYPRAEEYEFLLPVEEAPKGSISPSHPRPGFRFRSSHSPGPVAVGRVRLLLRGGAGV
 WDARPRGGRAVLQPRCSLASPLVAVGPV
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNTAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001301240

ORF Size: 705 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_001301240.2](#)

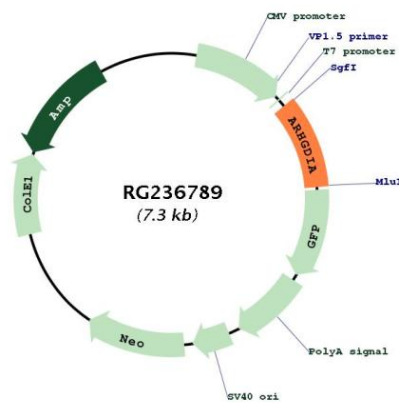
RefSeq Size: 1516 bp

RefSeq ORF: 708 bp

Locus ID: 396
UniProt ID: [P52565](#)
Cytogenetics: 17q25.3
Protein Families: Druggable Genome
Protein Pathways: Neurotrophin signaling pathway
MW: 26.3 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 RG236789