

Product datasheet for **RG236918**

RhoGDI (ARHGDI) (NM_001301243) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RhoGDI (ARHGDI) (NM_001301243) 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:	>RG236918 representing NM_001301243. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGAGCAGGAGCCACAGCCGAGCAGCTGGCCAGATTGCAGCGGAGAACGAGGAGGATGAGCAC
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AGCCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCGTGGCCGTTTCCGAGACCCCAACGTCCCCAAC
GTCGTGGTGACTGGCCTGACCCTGGTGTGACGCTCGGCCCGGGCCCCCTGGAGCTGGACCTGACGGGT
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CTGGAGAGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAATCTCTTTC
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GACAAGACTGACTACATGGTAGGCAGCTATGGGCCCGGGCCGAGGAGTACGAGTTCCTGACCCCGGTG
GAGGAGGCACCAAGGGTATGCTGGCCCGGGCAGCTACAGCATCAAGTCCCGCTTACAGACGACGAC
AAGACCGACCCTGTCTGGGAGTGAATCTCACCATCAAGAAGGACTGGAAGGAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236918
 Blue=ORF Red=Cloning site Green=Tag(s)

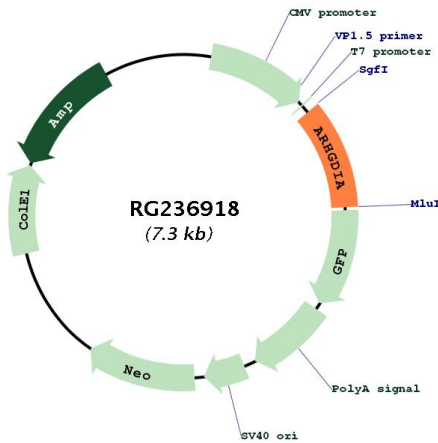
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 EEAPKGLARGSYSIKSRFTDDDKTDHLSWEWNLTIKKDWKD
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301243

ORF Size:	747 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_001301243.2
RefSeq Size:	2055 bp
RefSeq ORF:	750 bp
Locus ID:	396
UniProt ID:	P52565
Cytogenetics:	17q25.3
Protein Families:	Druggable Genome
Protein Pathways:	Neurotrophin signaling pathway
MW:	28 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]