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Product datasheet for RC236918

RhoGDI (ARHGDIA) (NM_001301243) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RhoGDI (ARHGDIA) (NM_001301243) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ARHGDIA
Synonyms:	GDIA1; HEL-S-47e; NPHS8; RHOGDI; RHOGDI-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC236918 representing NM_001301243 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCTGAGCAGGAGCCCACAGCCGAGCAGCTGGCCCAGATTGCAGCGGAGAACGAGGAGGATGAGCACT CGGTCAACTACAAGCCCCCGGCCCAGAAGAGCATCCAGGAGATCCAGGAGCTGGACAAGGACGACGAGAG CCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCGTGGCCGTTTCCGCAGACCCCAACGTCCCCAACGTC GTGGTGACTGGCCTGACCCTGGTGTGCAGCTCGGCCCCGGGCCCCCTGGAGCTGGACCTGACGGGTGAGT GCCCTGCGGCCGCGGGGGTCCGGGCGGCCCCTGGTGGGGATCTCGGGAAGTGCAGCCAGGGGGCCGCGCA GGGCTGGGGCTTCGCGCAGGGCTGCTGGGCAGTCATTGAGGGGGAGGTCCCCCCAACAGGCGACCTGGAG AGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAATCTCTTTCCGGGTTA ACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACGTACAGGAAAGGCGTCAAGATTGACAAGAC TGACTACATGGTAGGCAGCTATGGGCCCCGGGCCGAGGAGTACGAGTTCCTGACCCCCGTGGAGGAGGCA CCCAAGGGTATGCTGGCCCGGGGCAGCTACAGCATCAAGTCCCGCTTCACAGACGACGACAAGACCGACC ACCTGTCCTGGGAGTGGAATCTCACCATCAAGAAGGACTGGAAGGAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

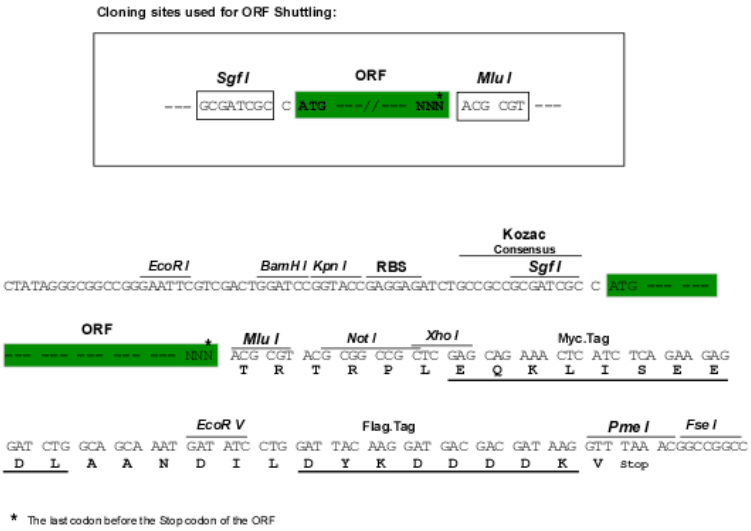
>RC236918 representing NM_001301243
Red=Cloning site Green=Tags(s)

MAEQEPTAEQLAQIAAENEEDEHSVNYKPPAQKSIQEIQELDKDDESLRKYKEALLGRVAVSADPNVPNV
VVTGLTLVCSSAPGPLELDLTGECPAAAGVRAAPGGDLGKCSQGAAQGWGFAQGCWAVIEGEVPPTGDLE
SFKKQSFVLKEGVEYRIKISFRVNREIVSGMKYIQHTYRKGVKIDKTDYMVGSYGPRAEEYEFLTPVEEA
PKGMLARGSYSIKSRFTDDDKTDHLSWEWNLTIKKDWKD

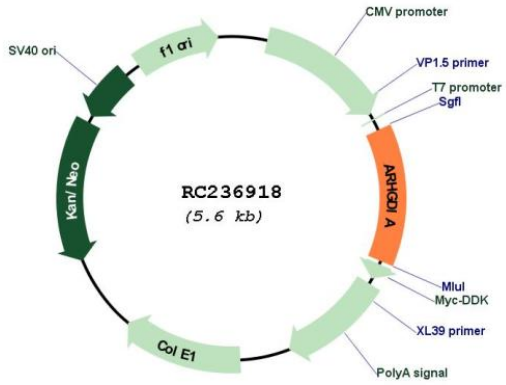
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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).
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_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]