

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for RC200902

#### RhoGDI (ARHGDIA) (NM\_004309) Human Tagged ORF Clone

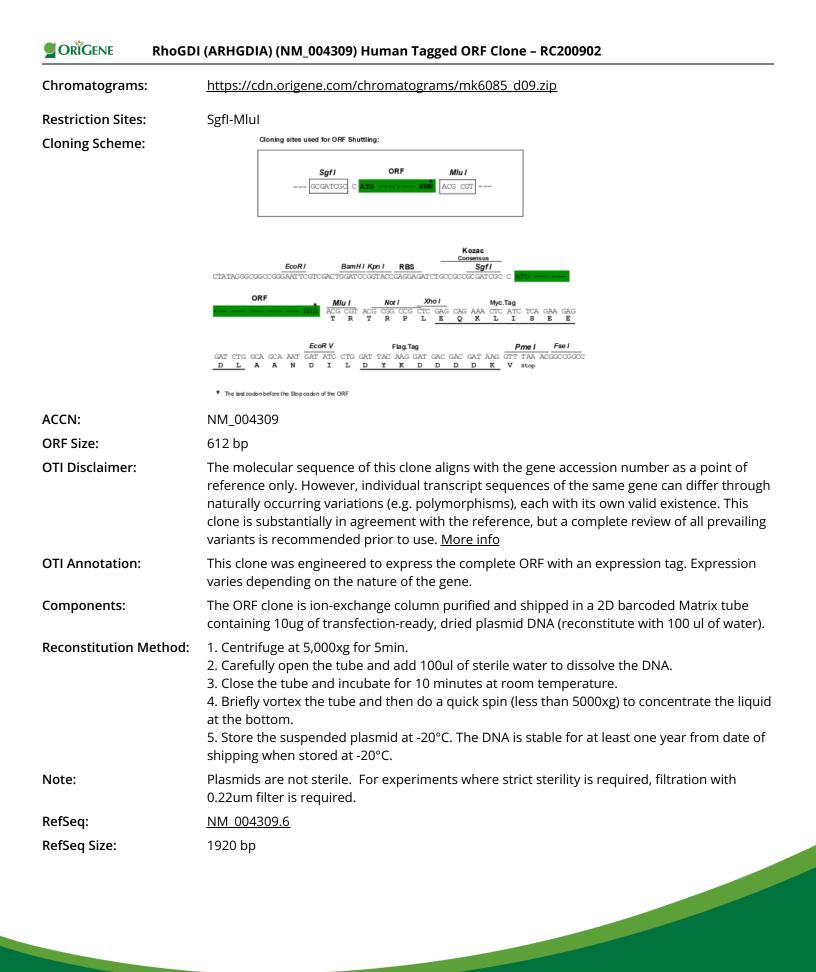
### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RhoGDI (ARHGDIA) (NM_004309) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RhoGDI
Synonyms:	GDIA1; HEL-S-47e; NPHS8; RHOGDI; RHOGDI-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC200902 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCTGAGCAGGAGCCCACAGCCGAGCAGCTGGCCCAGATTGCAGCGGAGAACGAGGAGGATGAGCACT CGGTCAACTACAAGCCCCCGGCCCAGAAGAGCATCCAGGAGATCCAGGAGCTGGACAAGGACGACGAGAG CCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCGTGGCCGTTTCCGCAGACCCCAACGTCCCCAACGTC GTGGTGACTGGCCTGACCCTGGTGTGCAGCTCGGCCCCGGGCCCCCTGGAGCTGGACCTGACGGGCGACC TGGAGAGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAATCTCTTTCCG GGTTAACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACGTACAGGAAAGGCGTCAAGATTGAC AAGACTGACTACATGGTAGGCAGCTATGGGCCCCCGGGCCCGAGGAGTACGAGAAGGCGTCAAGATTGAC AGGCACCCAAGGGTATGCTGGCCGGGGCAGCTACAGCATCAAGTCCCGCTTCACAGACGACGACAAGAC CGACCACCTGTCCTGGGAGTGGAATCTCACCATCAAGAAGGACTGGAAGGAC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	<pre>&gt;RC200902 protein sequence Red=Cloning site Green=Tags(s)</pre>
	MAEQEPTAEQLAQIAAENEEDEHSVNYKPPAQKSIQEIQELDKDDESLRKYKEALLGRVAVSADPNVPNV VVTGLTLVCSSAPGPLELDLTGDLESFKKQSFVLKEGVEYRIKISFRVNREIVSGMKYIQHTYRKGVKID KTDYMVGSYGPRAEEYEFLTPVEEAPKGMLARGSYSIKSRFTDDDKTDHLSWEWNLTIKKDWKD
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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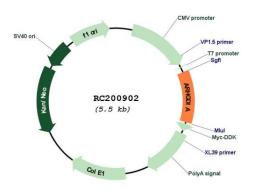
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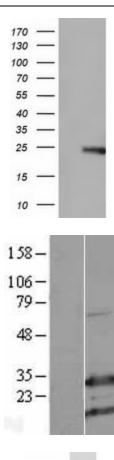
	5DI (ARHGDIA) (NM_004309) Human Tagged ORF Clone – RC200902
RefSeq ORF:	615 bp
Locus ID:	396
UniProt ID:	<u>P52565</u>
Cytogenetics:	17q25.3
Domains:	Rho_GDI
Protein Families:	Druggable Genome
Protein Pathways:	Neurotrophin signaling pathway
MW:	23.2 kDa
Gene Summary:	This gene encodes a protein that 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]

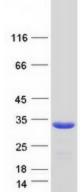
## **Product images:**



Circular map for RC200902

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HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ARHGDIA (Cat# RC200902, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ARHGDIA(Cat# [TA501089]). Positive lysates [LY401371] (100ug) and [LC401371] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY401371]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200902 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified ARHGDIA protein (Cat# [TP300902]). The protein was produced from HEK293T cells transfected with ARHGDIA cDNA clone (Cat# RC200902) using MegaTran 2.0 (Cat# [TT210002]).

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