

Product datasheet for **SC334684**

RhoGDI (ARHGDI) (NM_001301241) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RhoGDI (ARHGDI) (NM_001301241) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGDI
Synonyms:	GDIA1; HEL-S-47e; NPHS8; RHOGDI; RHOGDI-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001301241, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGAGCAGGAGCCACAGCCGAGCAGCTGGCCAGATTGCAGCGGAGAACGAGGAGGATGAGCACT  
CGGTCAACTACAAGCCCCGGCCAGAAGAGCATCCAGGAGATCCAGGAGCTGGACAAGGACGACGAGAG  
CCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCTGGCCGTTTCCGAGACCCCAACGTCCCAACGTC  
GTGGTACTGGCCTGACCCTGGTGTGCAGCTCGGCCCGGGCCCTGGAGCTGGACCTGACGGGCGACC  
TGGAGAGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAAATCTTTCCG  
GGTTAACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACGTACAGGAAAGCGTCAAGATTGAC  
AAGACTGACTACATGGTAGGCAGCTATGGGCCCGGGCCGAGGAGTACGAGTTCCTGACCCCGTGGAGG  
AGGCACCCAAGGGTTCTATCTCCCGTCACACCCGAGGCCTGGCTTCAGGAGGGAGCGGAGCAGCCATTC  
TCCAGGCCCGTGGTTGCCCTGGACGTGTGCGTCTGCTGCTCCGGGGTGGAGCTGGGGTGTGGGATGCA  
CGGCCTCGTGGGGCCGGGCCGCTCCTCCAGCCCGCTGCTCCCTGGCCAGCCCCCTGTGCTGTGCGGTC  
CCGTCTAA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001301241
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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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:	<ol style="list-style-type: none">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:	<u>NM_001301241.1</u> , <u>NP_001288170.1</u>
RefSeq Size:	1746 bp
RefSeq ORF:	708 bp
Locus ID:	396
UniProt ID:	<u>P52565</u>
Cytogenetics:	17q25.3
Protein Families:	Druggable Genome
Protein Pathways:	Neurotrophin signaling pathway
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) lacks an alternate segment in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (c) is longer than isoform a. Variants 4 and 5 encode the same isoform (c).</p>