

Product datasheet for **SC335443**

RhoGDI (ARHGDI) (NM_001301242) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RhoGDI (ARHGDI) (NM_001301242) Human Untagged Clone
Tag:	Tag Free
Symbol:	ARHGDI
Synonyms:	GDIA1; HEL-S-47e; NPHS8; RHOEDI; RHOEDI-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335443 representing NM_001301242. Blue=Insert sequence Red=Cloning site Green=Tag(s)

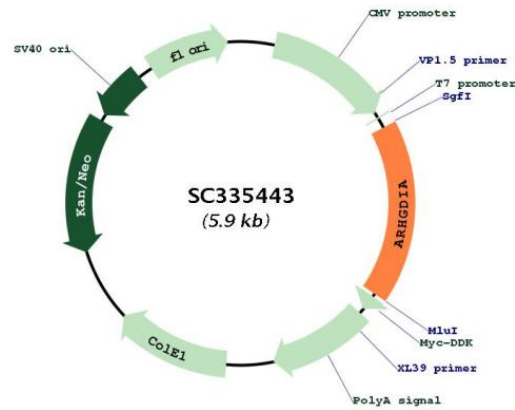
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GCTCGTTTGTGAAACCGTCAGAATTTGTAAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGAGCAGGAGCCACAGCCGAGCAGCTGGCCAGATTGCAGCGGAGAACGAGGAGGATGAGCAC
TCGGTCAACTACAAGCCCCGGCCAGAAAGCATCCAGGAGATCCAGGAGCTGGACAAGGACGACGAG
AGCCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCGTGGCCGTTTCCGAGACCCCAACGTCCCCAAC
GTCGTGGTGACTGGCCTGACCCTGGTGTGCAGCTCGGCCCGGGCCCCCTGGAGCTGGACCTGACGGGC
GACCTGGAGAGCTTCAAGAAGCAGTCGTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAATCTCT
TTCCGGGTTAACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACTACAGAAAGGCGTCAAG
ATTGACAAGACTGACTACATGACGACGACAAGACCGACCCTGTCTGGGAGTGGAAATCTCACCATCA
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CCCTGGTCCGCTCCCTGGCCTGGCTCAACCGAGTGCCTCCGACCCCCCTCCTCAGCCCTCCCCACCC
ACAGGCCAGCCTCCTCGGTCTCCTGTCTGCTGTTGCTGCTGTGCTGTGGGGAGAGAGGGCCGC
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GGCCAGCCCCCTTGTGCTGTGCGTCCCGTCTAACCATGATGCCTTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001301242

Insert Size: 1014 bp

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).

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_001301242.1](#)

RefSeq Size: 1808 bp

RefSeq ORF: 1014 bp

Locus ID: 396

UniProt ID: [P52565](#)

Cytogenetics: 17q25.3

Protein Families: Druggable Genome

Protein Pathways: Neurotrophin signaling pathway

MW: 36.6 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]

Transcript Variant: This variant (6) differs in the 5' UTR and lacks an alternate segment in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (d) is longer than isoform a.