

Product datasheet for **SC117424**

RhoGDI (ARHGDI) (NM_004309) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RhoGDI (ARHGDI) (NM_004309) Human Untagged Clone
Tag:	Tag Free
Symbol:	RhoGDI
Synonyms:	GDIA1; HEL-S-47e; NPHS8; RHOGDI; RHOGDI-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004309, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGAGCAGGAGCCACAGCCGAGCAGCTGGCCAGATTGCAGCGGAGAACGAGGAGGATGAGCACT  
CGGTCAACTACAAGCCCCGGCCAGAAGAGCATCCAGGAGATCCAGGAGCTGGACAAGGACGACGAGAG  
CCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCGTGGCCGTTTCCGAGACCCCAACGTCCCCAACGTC  
GTGGTACTGGCCTGACCCTGGTGTGCAGCTCGGCCCGGGCCCCCTGGAGCTGGACCTGACGGGCGACC  
TGGAGAGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGAGGGTGTGGAGTACCGGATAAAAACTCTTTCCG  
GGTTAACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACGTACAGGAAAGGCGTCAAGATTGAC  
AAGACTGACTACATGGTAGGCAGCTATGGGCCCGGGCCGAGGAGTACGAGTTCCTGACCCCGTGGAGG  
AGGCACCCAAGGGTATGCTGGCCCGGGGACGCTACAGCATCAAGTCCCGCTTACAGACGACGACAAGAC  
CGACCACCTGTCTGGGAGTGAATCTCACCATCAAGAAGGACTGGAAGGACTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004309 unedited
 GGTCTGAAATTTGTAAACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCTGAACCGC
 GCGGCCGAACCTCCGGTGTCCCAGCCAGGCTAAGCTTGAGCATGGCTGAGCAGGAGCC
 CACAGCCGAGCAGCTGGCCAGATTGCAGCGGAGAACGAGGAGGATGAGCACTCGGTCAA
 CTAACAAGCCCCGGCCAGAAGAGCATCCAGGAGATCCAGGAGCTGGACAAGGACGACGA
 GAGCTGCGAAAGTACAAGGAGGCCCTGCTGGCCCGCTGGCCGTTTCCGACACCCCAA
 CGTCCCCAACGTCTGGTGACTGGCCTGACCCTGGTGTGCAGCTCGGCCCCGGGCCCTT
 GGAGCTGGACCTGACGGCGACCTGGAGAGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGA
 GGGTGTGGAGTACCGGATAAAAAATCTCTTCCGGGTTAACCGAGAGATAGTGTCCGGCAT
 GAAGTACATCCAGCATACGTACAGGANAGGCGTCAAGATTGACAAGACTGACTACATGGT
 AGGCAGCTATGGGCCCGGGCCGAGGAGTACGAGTTCTGACCCCGTGGAGGANGCACC
 CAAGGGTATGCTGGCCCGGNGCAGCTACAGCATCAAGTCCCGCTTACAGACGACGACNA
 GACCGACCACCTGCTGGGAGTGAATCTCACCATCAAGAAAGACTGGNAGGACTGAGC
 CCAGCCCAGAGCGNCAGNCAGACTGACNGACGGACGACGGACAGGCNGATGTGTTCCC
 CCCAGCCCCTCCCTCCCATACAAAGTGTGACAGCCCCTNCGTGCCCTCCCACCTGG
 TCCGCCTCCCTGGCTGGCTCAACCGAGTGCCTCCGACCCCTCCTTAGCCCTCCCCA
 CCCACAGGCCAGCTCCTCGNCTCTGGCTCGTTGCTGCTCTGCCTGGCCG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004309 unedited
 CCGCGCCGATTCTAAGTCGAGNNNTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTT
 AGGGGCATTTATTTCCCGTCCAGAAAAGCAGGGACAGGCGCTCTGCCTGAGCCTGGC
 AAACACAACACGAAAACCGGGATGGGGCGGGGAGGCACAGGAAACGGCTCTCAGCAAT
 GTGTGCACTTGGTCCCTTGTGTTCTCTGGCTGGGTGAGGAAAGCCTGCCGGGGTGGT
 GGCACTGAAAGCCTGGGGAAACAGGCGCCAGGCCAGTGGCCAGGACGGCACGGACGGA
 GGCAATAAATACTGATGGCCAGGCGGGCTCCTGGCTGGGCCAGGTGGGGTGGGTGAGG
 CTGTCCATCGAGGGCTCTTGGGGGGTGTGGGCTCTGGGCACTGCCCGTGGAGACAGAAA
 AGGCAGAGGCAGGACAATACCCAGCCTCCTGGATGGTACTGAGGTGACTTGAATTTTGGC
 AATTTGGCTTTCCCAAGCCCGGAGCCATCTCCACAGCCCTGTCCAGGGAAGGGGGCA
 GGCTGGCCAGGCACTGGTGGGCTGGGGAGCAGCAGCAGCACACCCACGTGTCCTGGGT
 CACTGGGTTCCGCCACCGGGGAAGGGACGGGGAGGCCACATGCTCATGCAGACACAGGGAG
 TTAGAGGGCTAGTGAGGCCACGGTACTCCACATGTAANGGCATCATGNTAGACGG
 NACCGACAGCGACAAGGGGGCTGGCCAGGACCANCGGGCTGGAGGACGGCCGGCCCC
 CCAGAGCCGTGCATCCCAACCCATTTACCCCGGAGCAGCAGACGACACGTCCAGGG
 GCACCACCGGCCTGAAAATGCTGCTCCGCTCCTCCTGAACCAGCCTCGGNTGTGACGGN
 GAGAAAACCTGGGGGCACANAAAGGGCANNAAGNCTGNNTGNGCCTTTCTCCACGCACA
 GCNANCCACNAACAGGAACGAGAGCTGGCCCTGGGTGGGNAAGCTAGAAG

Restriction Sites:

NotI-NotI

ACCN:

NM_004309

Insert Size:

1920 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_004309.3](#), [NP_004300.1](#)

RefSeq Size: 1912 bp

RefSeq ORF: 615 bp

Locus ID: 396

UniProt ID: [P52565](#)

Cytogenetics: 17q25.3

Domains: Rho_GDI

Protein Families: Druggable Genome

Protein Pathways: Neurotrophin signaling pathway

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 (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same isoform (a).