

Product datasheet for **RC231004**

RhoGDI (ARHGDI) (NM_001185078) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RhoGDI (ARHGDI) (NM_001185078) 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: >RC231004 representing NM_001185078
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGAGCAGGAGCCACAGCCGAGCAGCTGGCCAGATTGCAGCGGAGAACGAGGAGGATGAGCACT
CGGTCAACTACAAGCCCCGGCCAGAAGAGCATCCAGGAGATCCAGGAGCTGGACAAGGACGACGAGAG
CCTGCGAAAGTACAAGGAGGCCCTGCTGGGCCGCGTGGCCGTTCCGCAGACCCCAACGTCCCAACGTC
GTGGTACTGGCCTGACCCTGGTGTGCAGCTCGGCCCGGCCCTGGAGCTGGACCTGACGGGCGACC
TGGAGAGCTTCAAGAAGCAGTCGTTTGTGCTGAAGGAGGTGTGGAGTACCGGATAAAAACTCTTTCCG
GGTTAACCGAGAGATAGTGTCCGGCATGAAGTACATCCAGCATACGTACAGGAAAGGCGTCAAGAACGAC
GACAAGACCGACCACCTGTCCTGGGAGTGAATCTCACCATCAAGAAGGACTGGAAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231004 representing NM_001185078
Red=Cloning site Green=Tags(s)
MAEQEPTAEQLAQIAAENEDEHSVNYKPPAQKSIQEIQELDKDDESLRKYKEALLGRVAVSADPNV
VVTGLTLVCSAPGPLELDLTGDLSEFKKQSFVLKEGVEYRIKISFRVNRIVSGMKYIQHTYRKGKND
DKTDHLSWEWNLTIKDWKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1431_c09.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001185078

ORF Size: 480 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_001185078.3](#)

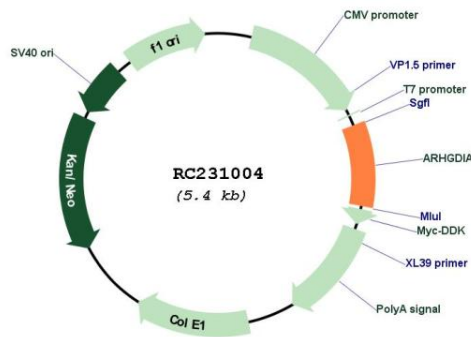
RefSeq ORF: 483 bp

Locus ID: 396

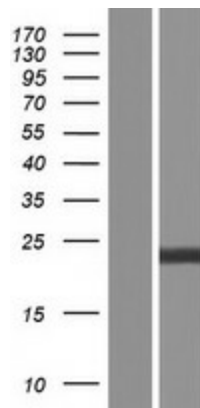
UniProt ID: [P52565](#)

Cytogenetics: 17q25.3
Protein Families: Druggable Genome
Protein Pathways: Neurotrophin signaling pathway
MW: 18.7 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]

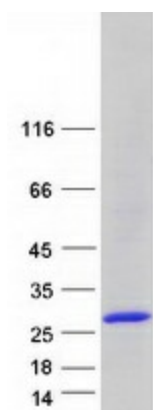
Product images:



Circular map for RC231004



Western blot validation of overexpression lysate (Cat# [LY434003]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231004 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ARHGDI protein (Cat# [TP331004]). The protein was produced from HEK293T cells transfected with ARHGDI cDNA clone (Cat# RC231004) using MegaTran 2.0 (Cat# [TT210002]).