

Product datasheet for **RC203824**

GDI1 (NM_001493) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDI1 (NM_001493) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GDI1
Synonyms:	1A; GDIL; MRX41; MRX48; OPHN2; RABGD1A; RABGDIA; XAP-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC203824 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGAGGAATACGATGTGATCGTGTCTGGGGACCGGTCTACCGAATGCATCCTGTCTGGGCATCATGT
 CTGTGAACGGGAAGAAGGTGCTGCACATGGACCGAACCCCTACTACGGGGCGAGAGCTCCTCCATCAC
 ACCCTTGAGGAGCTGTATAAGCGTTTTTCAAGTGTGGAGGGGCCCTGAGTCGATGGCCGAGGCCGA
 GACTGGAATGTTGACCTGATTCCCAAATTCCTCATGGCTAACGGGCAGCTGGTAAAGATGCTACTGTATA
 CAGAGGTGACTCGCTACCTGGACTTCAAGGTGGTGGAGGGCAGCTTTGTCTACAAGGGGGCAAGATCTA
 CAAAGTGGCTCCACTGAGACTGAGGCCTTGGCTTCCAATCTGATGGGCATGTTTGAGAAACGGCGCTTC
 CGCAAGTTCCTGGTGTGGTGGCAAACCTCGATGAGAATGACCCCAAGACCTTTGAGGGCGTTGACCC
 AGACTACCAGCATGCGTGACGTCTACCGAAGTTTGTATCTGGCCAGGATGTCATCGATTTCACTGGCCA
 TGCCCTGGCGCTCTACCGCACTGATGACTACCTGGACCAGCCCTGCCTTGAGACCGTCAACCGCATCAAG
 TTGTACAGTGAGTCCCTGGCCCGTATGGCAAGAGCCATATTTATACCGCTCTACGGCTTGGGCGAGC
 TGCCCCAGGGTTTTGCAAGATTGAGTGCCATCTATGGGGGACATATGCTGAACAAACCTGTGGATGA
 CATCATCATGGAGAACGGCAAGGTGGTGGGCGTGAAGTCTGAGGGAGAGGTGGCCCGCTGCAAGCAGCTG
 ATCTGTGACCCAGCTACATCCCGACCGTGTGCGGAAGGCTGGCCAGGTTATCCGCATCATCTGTATCC
 TTAGCCACCCATCAAGAACACCAACGACGCCAACTCTGCCAAATAATCATCCCCAGAACAGGTCAA
 CAGGAAGTCAGACATCTACGTGTGATGATCTCCTATGCACACAACGTGGCGGCCAGGGCAAGTACATA
 GCTATTGCCAGCACTACTGTGGAGACCAGGACCTGAAAAGGAGGTGGAGCCGGCTCTGGAGCTGTTGG
 AGCCCATTGACCAGAAGTTTGTGGCTATCAGTGACTTGTATGAGCCATTGATGATGGTTGTGAGGCCA
 GGTGTTCTGTTCTGCTCTACGATGCCACCACACTTTGAGACAACCTGCAACGACATCAAAGACATC
 TACAAACGCATGGCTGGCACGGCCTTTGACTTTGAGAACATGAAGCGCAAACAGAACGACGTCTTTGGAG
 AAGCTGAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203824 protein sequence
 Red=Cloning site Green=Tags(s)

MDEEYDVIVLGTGLTECILSGIMSVNGKVLHMDRNPYYGGESSITPLEELYKRFQLEGGPPESMGRGR
 DWNVDLIPKFLMANGQLVKMLLYTEVTRYLDFKVVVEGSFVYKGGKIYKVPSTETEALASNLMGMFEKRRF
 RKFLVFVANFDENDPKTFEGVDPQTTSMRDVYRKFDFLGQDVIDFTGHALALYRTDDYLDQPCLLETVNRKI
 LYSESLARYGKSPYLYPLYGLGELPQGFARLSAIYGGTYMLNKPVDDIIMENGVVGVKSEGEVARCKQL
 ICDPSYIPDRVRKAGQVIRIICILSHPIKNTDANSQIIPQNVNRKSDIYVCMISYAHNVAAQGYI
 AIASTTVETTDPEKEVEPALELLEPIDQKFVAISDLYEPIDDGCEVQVFCSCSYDATTHFETTCNDIKDI
 YKRMAGTAFDFENMKRKQNDVFGAEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6302_f06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001493

ORF Size: 1341 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_001493.3](#)

RefSeq Size: 2505 bp

RefSeq ORF: 1344 bp

Locus ID: 2664

UniProt ID: [P31150](#)

Cytogenetics: Xq28

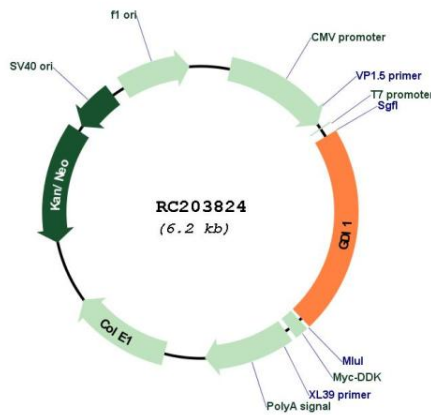
Domains: GDI

Protein Families: Druggable Genome

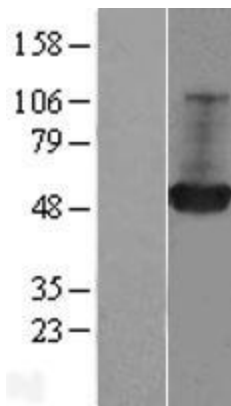
MW: 50.6 kDa

Gene Summary: GDP dissociation inhibitors are proteins that regulate the GDP-GTP exchange reaction of members of the rab family, small GTP-binding proteins of the ras superfamily, that are involved in vesicular trafficking of molecules between cellular organelles. GDIs slow the rate of dissociation of GDP from rab proteins and release GDP from membrane-bound rabs. GDI1 is expressed primarily in neural and sensory tissues. Mutations in GDI1 have been linked to X-linked nonspecific cognitive disability. [provided by RefSeq, Jul 2008]

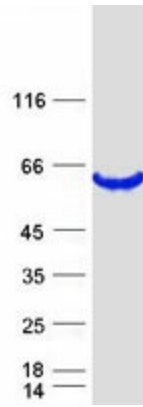
Product images:



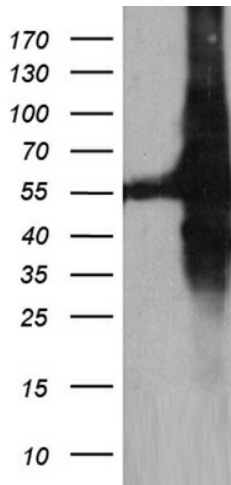
Circular map for RC203824



Western blot validation of overexpression lysate (Cat# [LY419896]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203824 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GDI1 protein (Cat# [TP303824]). The protein was produced from HEK293T cells transfected with GDI1 cDNA clone (Cat# RC203824) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GDI1 (Cat# RC203824, 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-GDI1 (Cat# [TA811044]). Positive lysates [LY419896] (100ug) and [LC419896] (20ug) can be purchased separately from OriGene.