

Product datasheet for **RG203824**

GDI1 (NM_001493) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDI1 (NM_001493) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GDI1
Synonyms:	1A; GDIL; MRX41; MRX48; OPHN2; RABGD1A; RABGDIA; XAP-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG203824 representing NM_001493
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGAGGAATACGATGTGATCGTGTCTGGGACCGGTCTACCGAATGCATCCTGTCTGGGCATCATGT
 CTGTGAACGGGAAGAAGGTGCTGCACATGACCGGAACCCCTACTACGGGGCGAGAGCTCCTCCATCAC
 ACCCCTGGAGGAGCTGTATAAGCGTTTTTCAGTTGCTGGAGGGGCCCCCTGAGTCGATGGGCCGAGGCCGA
 GACTGGAATGTTGACCTGATTCCAAATTCCTCATGGCTAACGGGCAGCTGGTAAAGATGCTACTGTATA
 CAGAGGTGACTCGCTACCTGGACTTCAAGGTGGTGGAGGCGAGCTTTGTCTACAAGGGGGCAAGATCTA
 CAAAGTCCGCTCCACTGAGACTGAGGCCTTGGCTTCCAATCTGATGGGCATGTTTGAGAAACGGCGCTTC
 CGCAAGTTCCTGGTGTGTTGGCAAACCTCGATGAGAATGACCCCAAGACCTTTGAGGGCGTTGACCCCC
 AGACTACCAGCATGCGTGACGTCTACCGGAAGTTTGATCTGGGCCAGGATGTCATCGATTTCACTGGCCA
 TGCCCTGGCGCTCTACCGCACTGATGACTACCTGGACCAGCCCTGCCTTGAGACCGTCAACCGCATCAAG
 TTGTACAGTGAGTCCCTGGCCCGGTATGGCAAGAGCCCATATTTATACCGCTCTACGGCTTGGGCGAGC
 TGCCCCAGGGTTTTGCAAGATTGAGTGCCATCTATGGGGGACATATGCTGAACAAACCTGTGGATGA
 CATCATCATGGAGAACGGCAAGGTGGTGGGCGTGAAGTCTGAGGGAGAGGTGGCCCGCTGCAAGCAGCTG
 ATCTGTGACCCAGCTACATCCCGGACCGTGTGCGGAAGGCTGGCCAGGTTATCCGCATCATCTGTATCC
 TTAGCCACCCCATCAAGAACCAACGACGCCAACTCCTGCCAAATAATCATCCCCAGAACAGGTCAA
 CAGGAAGTCAGACATCTACGTGTGATGATCTCCTATGCACACAACGTGGCGGCCAGGGCAAGTACATA
 GCTATTGCCAGCACTACTGTGGAGACCAGGACCTGAAAAGGAGGTGGAGCCGGCTCTGGAGCTGTTGG
 AGCCCCATTGACCAGAAGTTTGTGGCTATCAGTGACTTGTATGAGCCATTGATGATGGTTGTGAGAGCCA
 GGTGTTCTGTTCTGCTCCTACGATGCCACCACACACTTTGAGACAACCTGCAACGACATCAAAGACATC
 TACAAACGCATGGCTGGCACGGCCTTTGACTTTGAGAACATGAAGCGCAAACAGAACGACGCTTTTGGAG
 AAGCTGAGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

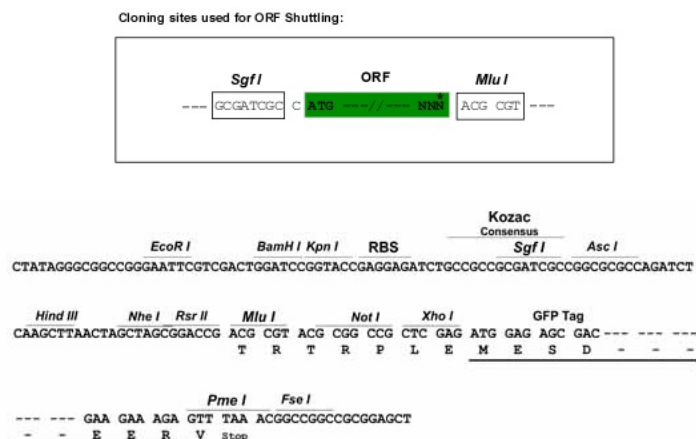
>RG203824 representing NM_001493
 Red=Cloning site Green=Tags(s)

MDEEYDIVLGTGLTECILSGIMSVNGKKVLHMDRNPYYGGESSITPLEELYKRFQLEGGPPESMGRGR
 DWNVDLIPKFLMANGQLVKMLLYTEVTRYLDFKVVESFVYKGGKIYKVPSTETEALASNLMGMFEKRRF
 RKFLVFVANFDENDPKTFEGVDPQTSMRDVYRKFDLGQDVDFTHALALYRTDDYLDQPCLETVNRIK
 LYSESLARYGKSPYLYPLYGLGELPQGFARLSAIYGGTYMLNKPVDIIIMENGKVVGVKSEGEVARCKQL
 ICDPSYIPDRVRKAGQVIRIICILSHPIKNTNDANSCQIIIPQNQVNRKSDIYVCMISYAHNVAAQGYI
 AIASTTVETTDPEKEVEPALELLEPIDQKFVAISDLYEPIDDGCEQVFCSCSYDATTTFETTCNDIKDI
 YKRMAGTAFDFENMKRKQNDVFGEAEQ

TRTRPLE – GFP Tag – V

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: 2225 bp

RefSeq ORF: 1344 bp

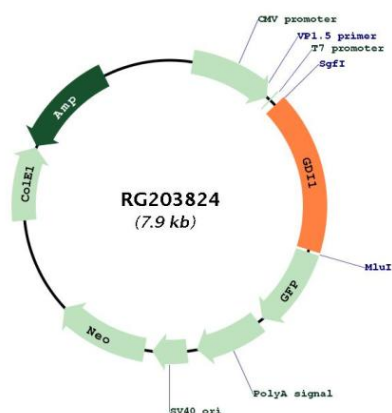
Locus ID: 2664

UniProt ID: [P31150](#)

Cytogenetics: Xq28

Domains:	GDI
Protein Families:	Druggable Genome
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 RG203824