

Product datasheet for **RC200596**

GDI2 (NM_001494) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	GDI2
Synonyms:	HEL-S-46e; RABGDIB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200596 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGAGGAGTACGACGTGATCGTGCTGGGCACCGCCTGACGGAATGTATCCTGTCAGGTATAATGT
 CAGTGAATGGCAAGAAAGTTCTTCATATGGATCGAAACCCCTTACTACGGAGGAGAGAGTGCATCTATAAC
 ACCATTGGAAGATTTATACAAAAGATTTAAATACCAGGATCACCAACCCGAGTCAATGGGAGAGGAAGA
 GACTGGAATGTTGACTTGATTCCCAAGTTCCTTATGGCTAATGGTCAGCTGGTTAAGATGCTGCTTTATA
 CAGAGGTAACTCGCTATCTGGATTTTAAAGTACTGAAGGGAGCTTTGTCTATAAGGGTGGAAAAATCTA
 CAAGGTTCTTCCACTGAAGCAGAAGCCCTGGCATCTAGCCTAATGGGATTGTTTGAAAAACGTCGCTTC
 AGGAAATTCCTAGTGTATGTTGCCAACTTCGATGAAAAAGATCCAAGAACTTTTGAAGGCATTGATCCTA
 AGAAGACCACAATGCGAGATGTGTATAAGAAATTTGATTTGGGTCAAGACGTTATAGATTTTACTGGTCA
 TGCTCTTGCACTTTACAGAACTGATGATTACTTAGATCAACCGTGTATGAAACCATTAAATAGAATTA
 CTTTACAGTGAATCTTTGGCAAGATATGGCAAAAGCCCATACCTTTATCCACTCTATGGCCTTGGAGAAC
 TGCCCCAAGGATTTGCAAGGCTAAGTGCTATTTATGGAGGTACCTATATGCTGAATAAACCCATTGAAGA
 AATCATTGTACAGAATGGAAAAGTAATTTGGTGTAATCTGAAGGAGAAATGCTCGCTGTAAGCAGCTC
 ATCTGTGACCCAGCTACGTAAAAGATCGGGTAGAAAAAGTGGGCCAGGTGATCAGAGTTATTTGCATCC
 TCAGCCACCCCATCAAGAACCAATGATGCCAACTCCTGCCAGATCATTATCCACAGAACCAAGTCAA
 TCGAAAGTCAGATATCTACGTCTGCATGATCTCCTTTGCGCACAATGTAGCAGCACAAGGGAAGTACATT
 GCTATAGTTAGTACAACGTGTGAAACCAAGGAGCCTGAGAAGGAAATCAGACCAGCTTTGGAGCTTTGG
 AACCAATTGAACAGAAATTTGTTAGCATCAGTGACCTCCTGGTACCAAAAGACTTGGGAACAGAAAGCCA
 GATCTTTTATTTCCCGCACATATGATGCCACCACTCATTGAGACAACGTGTGATGACATTAATAAACATC
 TATAAGAGGATGACAGGATCAGAGTTTGACTTTGAGGAAATGAAGCGCAAGAAGATGACATCTATGGG
 AAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200596 protein sequence
 Red=Cloning site Green=Tags(s)

MNEEYDIVLGTGLTECILSGIMSVNGKKVLHMDRNPYYGGESASITPLEDLYKRFKIPGSPPESMGRGR
 DWNVDLIPKFLMANGQLVKMLLYTEVTRYLDFKVTEGSFVYKGGKIYKVPSTEAELASSLMGLFEKRRF
 RKFLVYVANFDEKDPRTFEGIDPKTTMRDVYKKFDLGQDVIDFTGHALALYRTDDYLDQPCYETINRIK
 LYSESLARYGKSPYLPLYGLGELPQGFARLSAIYGGTYMLNKPIEEEIIVQNGKVIQVSEGEIARCKQL
 ICDPSYVKDRVEKVGQVIRVICILSHPIKNTNDANSCQIIIPQNQVNRKSDIYVCMISFAHNVAAGKYI
 AIVSTTVETKEPEKEIRPALELLEPIEQKFVSISDLLVPKDLGTESQIFISRTYDATTHFETTCDDIKNI
 YKRMTGSEFDFEEMKRKKNDIYGED

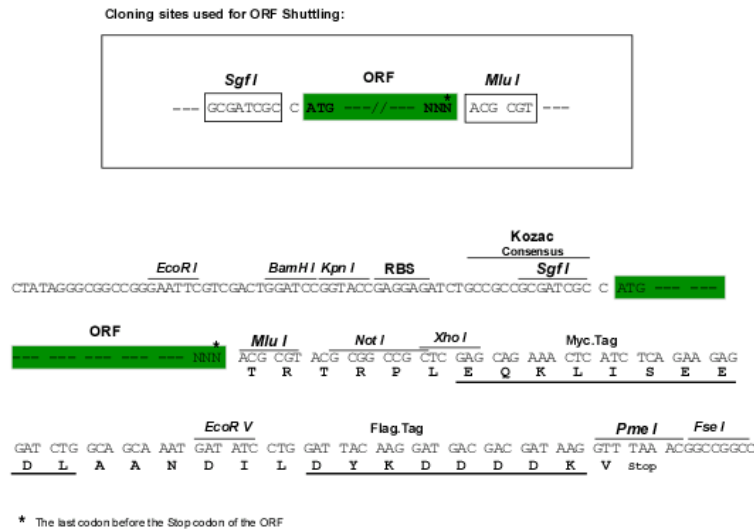
TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6198_d08.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001494

ORF Size: 1335 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001494.4](#)

RefSeq Size: 2441 bp

RefSeq ORF: 1338 bp

Locus ID: 2665

UniProt ID: [P50395](#)

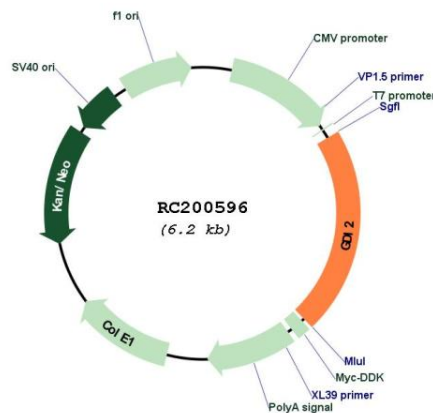
Cytogenetics: 10p15.1

Domains: GDI

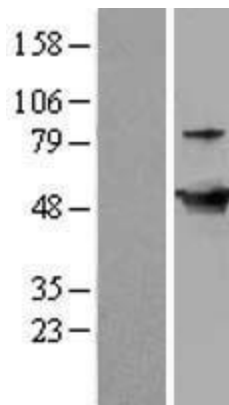
MW: 50.7 kDa

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. GDI2 is ubiquitously expressed. The GDI2 gene contains many repetitive elements indicating that it may be prone to inversion/deletion rearrangements. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]

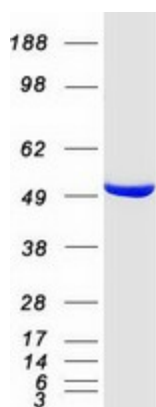
Product images:



Circular map for RC200596



Western blot validation of overexpression lysate (Cat# [LY400572]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200596 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GDI2 protein (Cat# [TP300596]). The protein was produced from HEK293T cells transfected with GDI2 cDNA clone (Cat# RC200596) using MegaTran 2.0 (Cat# [TT210002]).