

Product datasheet for **SC119204**

GDI2 (NM_001494) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDI2 (NM_001494) Human Untagged Clone
Tag:	Tag Free
Symbol:	GDI2
Synonyms:	HEL-S-46e; RABGDIB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001494, the custom clone sequence may differ by one or more nucleotides

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ATGAATGAGGAGTACGACGTGATCGTGCTGGGCACCGCCTGACGGAATGTATCCTGTCAGGTATAATGT
CAGTGAATGGCAAGAAAGTTCTTCATATGGATCGAAACCCTTACTACGGAGGAGAGAGTGCATCTATAAC
ACCATTGGAAGATTTATACAAAAGATTTAAAATACCAGGATCACCACCCGAGTCAATGGGGAGAGGAAGA
GACTGGAATGTTGACTTGATTCCCAAGTTCCTTATGGCTAATGGTCAGCTGGTTAAGATGCTGCTTTATA
CAGAGGTAACCTCGCTATCTGGATTTAAAGTGACTGAAGGGAGCTTTGTCTATAAGGGTGGAAAAATCTA
CAAGGTTCCCTTCCACTGAAGCAGAAGCCCTGGCATCTAGCCTAATGGGATTGTTTAAAAACGTCGCTTC
AGGAAATTCCTAGTGTATGTTGCCAACTTCGATGAAAAAGATCCAAGAAGCTTTTGAAGGCATTGATCCTA
AGAAGACCACAATGCGAGATGTGTATAAGAAATTTGATTTGGGTCAAGACGTTATAGATTTACTGGTCA
TGCTCTTGCACTTTACAGAACTGATGATTACTTAGATCAACCGTGTATGAAACCATTAATAGAATTAATA
CTTTACAGTGAATCTTTGGCAAGATATGGCAAAAGCCCATACCTTTTACTCTATGGCCTTGGAGAAC
TGCCCCAAGGATTTGCAAGGCTAAGTGCTATTTATGGAGGTACCTATATGCTGAATAAACCATTGAAGA
AATCATTGTACAGAAATGGAAAAGTAATTTGGTGTAAAATCTGAAGGAGAAATGCTCGCTGTAAGCAGCTC
ATCTGTGACCCAGCTACGTAAGATCGGGTAGAAAAAGTGGCCAGGTGATCAGAGTTATTTGCATCC
TCAGCCACCCATCAAGAACCAATGATGCCAACTCCTGCCAGATCATTATCCACAGAACCAAGTCAA
TCGAAAGTCAGATATCTACGTCTGCATGATCCTTTGCGCAATGTAGCAGCACAAGGGAGTACATT
GCTATAGTTAGTACAACCTGTGAAACCAAGGAGCCTGAGAAGGAAATCAGACCAGCTTTGGAGCTTTGG
AACCAATTGAACAGAAATTTGTTAGCATCAGTGACCTCCTGTTACCAAAAGACTTGGGAACAGAAAGCCA
GATCTTTATTTCCGCACATATGATGCCACCCTCATTGAGACAACGTGTGATGACATTAACAAACATC
TATAAGAGGATGACAGGATCAGAGTTTGACTTTGAGGAAATGAAGCGCAAGAAGAATGACATCTATGGGG
AAGACTAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001494 unedited
 GGTCAACATTTGTATACGACTCCTATAGGGCGGCCGCGATTTCGGCACGAGGCGCGCCCAA
 NAGCGCCTCCCAGCCTCGTAGGGTGGTCACGGAGCCCCTGCGCCTTTTCCTTGCTCGGGT
 CCTGCGTCCGCGCCTGCCCGCCATGAATGAGGAGTACGACGTGATCGTGCTGGGCACCG
 GCCTGACGGAATGTATCCTGTCAAGTATAATGTCAAGTGAATGGCAAGAAAGTTCTTCATA
 TGGATCGAAACCCCTTACTACGGAGGAGAGAGTGCATCTATAACACCATTGGAAGATTTAT
 AAAAAAGATTTAAAAATACCAGGATCACCCACCGAGTCAATGGGGAGAGGAAGAGACTGGA
 ATGTTGACTTGATTCCCAAGTTCCTTATGGCTAATGGTCAGCTGGTTAAGATGCTGCTTT
 ATACAGAGGTAACCTCGCTATCTGGATTTTAAAGTGAAGGGAGCTTTGTCTATAAGG
 GTGAAAAATCTACAAGTTCCTTCCACTGAAGCAGAAGCCCTGGCATCTAGCCTAATGG
 GATTGTTTGAAAAACGTCGCTTCAGGAAATTCCTAGTGTATGTTGCCAATTTCGATGAAA
 AAGATCCAAGAATTTTGAAGGCATTGATCCTAAGAAGACCACAATGCGAGATGTGTATA
 AGAAATTTGATTTGGGTCAAGACGTTATAGATTTTACTGGTCATGCTCTTGCACNTACA
 GAACTGATGATTACTTAGATCAACCGTGTATGAAACCATTAATAGAATTAACCTTTACA
 GTGAATCTTTGGCAGATATGGCANAAGCCCATACCTTTATCCACTCTATGGCCTTGAG
 AACTGCCCCAGGATNTGCAGNNCTAGTGTATTTATGGAAGGTACCCTATATGCTGATA
 AACCCATTNGAAANTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001494 unedited
 TTGGACGCGGCCCAATCTAGGATCGAGTTTTNTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTCCAAAATTTGGCTTTATTTTGCAGTACAAAAATCATTGGAGCCTTTTTGAAAC
 AAAAGTAAAGGCTCTGTCAAGTCAATACTGCATTGCAGCTTGCCCACTGAAAAACCCAC
 CCCTGAAATACAAAAGATGCACTACACTTGACCCGCTTTATGTTGTTTTCTCTCCCTT
 TTTTTTAATAAATTTATTAGGTTAAAACACCACATACAGGCTTTCTCCAATGACTCCC
 TATGTCTGGGGTTGGGTTAAAATTTTATGCCACATAAACCAAATTTGGGGTTATGCTAT
 TTGGGCCCTGCCATAACTTTTGACTTATTACAAAATATAAGGTCTTAGGGAAAACCTCCG
 GATGCTGTCCCAAACCGGGGAATATTCAATTTAAAATCTCCTGAACCTCAAGAGGACAGA
 TGACACACAACCTGTATGGATCCAGCTCTTGAGCAGCAGCAGCACATAGCTACACTGATT
 AAAAGATTAAAAAAAGTCTCAAGTTGTCTGTGTCGGTATCCCAAGTTTGTAACTT
 CACTAGAAAAAAGCCAGTTTGGTTAAATTGAACAGAAGGTGGAACCTGCCAAT
 GCTGAATACCCACTCCATGAAACAAGTTAATAATTAGAAGGTGAAGGGGAGTATTACTGG
 ACAGGGCTTTATTCTCTCATTTCATTACAAAGCAGCCCTACAATATGATTCATTATAGC
 CATATTGCCAAATTTTAAAGTGNCTAATACATATAACATGAACTGCTGTAGCCTCCCC
 AAGATGCATCCTTCTGCGCTAATTTCTAAAGCCAACCTCTGACCTGCATCCTTTAAAGAGG
 TNTAATGGCTNCCACGTGCCTCAAAGGAGGGGGGCATATATGCGCGGAAATAAGATCTGC
 TT

Restriction Sites:

NotI-NotI

ACCN:

NM_001494

Insert Size:

2380 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_001494.2](#), [NP_001485.2](#)

RefSeq Size: 2274 bp

RefSeq ORF: 1338 bp

Locus ID: 2665

UniProt ID: [P50395](#)

Cytogenetics: 10p15.1

Domains: GDI

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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).