

Product datasheet for **SC318857**

GDI2 (NM_001115156) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDI2 (NM_001115156) Human Untagged Clone
Tag:	Tag Free
Symbol:	GDI2
Synonyms:	HEL-S-46e; RABGDIB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC318857 representing NM_001115156. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAATGAGGAGTACGACGTGATCGTGCTGGGCACCGCCTGACGGAATGTATCCTGTCAGGTATAATG
TCAGTGAATGGCAAGAAAGTTCTTCATATGGATCGAAACCCTTACTACGGAGGAGAGAGTGCATCTATA
ACACCATTGGAAGATTTATACAAAAGATTTAAAATACCAGGATCACCACCGAGTCAATGGGAGAGGA
AGAGACTGGAATGTTGACTTGATTCCCAAGTTCCTTATGGCTAATGGCCTAATGGGATTGTTTGAAAAA
CGTCGCTTCAGGAAATTCCTAGTGTATGTTGCCAACTTCGATGAAAAAGATCCAAGAAGCTTTGAAGGC
ATTGATCCTAAGAAGACCACAATGCGAGATGTGTATAAGAAATTTGATTTGGGTCAAGACGTTATAGAT
TTTACTGGTCATGCTCTTGCACTTTACAGAAGTATGATTAAGTATGATCAACCGTGTATGAAACCATT
AATAGAATTAAGCTTTACAGTGAATCTTTGGCAAGATATGGCAAAAGCCCATACCTTTATCCACTCTAT
GGCCTTGGAGAAGTGCCTCAAGGATTTGCAAGGCTAAGTGCTATTTATGGAGGTACCTATATGCTGAAT
AAACCCATTGAAGAAATCATTGTACAGAATGAAAAAGTAAATGGTGTAAAATCTGAAGGAGAAATGCT
CGCTGTAAGCAGCTCATCTGTGACCCAGCTACGTAAGATCGGGTAGAAAAAGTGGGCCAGGTGATC
AGAGTTATTTGCATCCTCAGCCACCCATCAAGAACACCAATGATGCCAACTCCTGCCAGATCATTATT
CCACAGAACCAAGTCAATCGAAAGTCAAGATATCTACGTCGATGATCTCCTTTGCGCACAATGTAGCA
GCACAAGGGAAGTACATTGCTATAGTTAGTACAAGTGTGAAACCAAGGAGCCTGAGAAGGAAATCAGA
CCAGCTTTGGAGCTCTTGAACCAATTGAACAGAAATTTGTTAGCATCAGTGACCTCCTGGTACCAAAA
GACTTGGGAACAGAAAGCCAGATCTTTATTTCCGCACATATGATGCCACCACTCATTGAGACACCG
TGTGATGACATTAATAACATCTATAAGAGGATGACAGGATCAGAGTTGACTTTGAGGAAATGAAGCGC
AAGAAGAATGACATCTATGGGAAGACTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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ACCN:	NM_001115156
Insert Size:	1203 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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:	<u>NM_001115156.1</u>
RefSeq Size:	2306 bp
RefSeq ORF:	1203 bp
Locus ID:	2665
UniProt ID:	<u>P50395</u>
Cytogenetics:	10p15.1
MW:	45.6 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the 5' coding region, compared to variant 1, resulting in a shorter protein, compared to isoform 1.</p>