

Product datasheet for **SC324140**

GDI1 (NM_001493) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDI1 (NM_001493) Human Untagged Clone
Tag:	Tag Free
Symbol:	GDI1
Synonyms:	1A; GDIL; MRX41; MRX48; OPHN2; RABGD1A; RABGDIA; XAP-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001493.1
 GTGCGGTGGCGGGCGGGCGGGTGGCGGGCGGACTGCTGCGGTGAAGGAGGAGGAGGAGC
 CGAGCGGGCGCTGGCACCAGGCCTGACCATGGACGAGGAATACGATGTGATCGTGCTGG
 GGACCGGTCTCACCGAATGCATCCTGTGCGGCATCATGTCTGTGAACGGGAAGAAGGTGC
 TGCACATGGACCGGAACCCCTACTACGGGGCGAGAGCTCCTCCATCACACCCTGGAGG
 AGCTGTATAAGCGTTTTTCAGTTGCTGGAGGGCCCCCTGAGTCGATGGGCGGAGGCCGAG
 ACTGGAATGTTGACCTGATTCCTCAAAATTCCTCATGGCTAACGGGCAGCTGGTAAAGATGC
 TACTGTATACAGAGGTGACTCGCTACCTGGACTTCAAGGTGGTGGAGGGCAGCTTTGTCT
 ACAAGGGGGCAAGATCTACAAAGTGCCGTCCACTGAGACTGAGGCCTTGCTTCCAATC
 TGATGGGCATGTTTGAGAAACGGCGCTTCGCAAGTTCCTGGTGTGTTGGCAAACCTTCG
 ATGAGAATGACCCCAAGACCTTTGAGGGCGTTGACCCCAAGACTACCAGCATGCGTGACG
 TCTACCGAAGTTTGATCTGGCCAGGATGTCATCGATTTCACTGGCCATGCCCTGGCGC
 TCTACCGACTGATGACTACCTGGACCAGCCCTGCCTTGAGACCGTCAACCGCATCAAGT
 TGTACAGTGAGTCCCTGGCCCGTATGGCAAGAGCCCATATTTATACCCGCTCTACGGCT
 TGGGCGAGCTGCCCCAGGTTTTGCAAGATTGAGTGCCATCTATGGGGGACATATATGC
 TGAACAAACCTGTGGATGACATCATCATGGAGAACGGCAAGGTGGTGGGCGTGAAGTCTG
 AGGGAGAGGTGGCCCGCTGCAAGCAGCTGATCTGTGACCCAGCTACATCCCGGACCGTG
 TGCGGAAGGCTGGCCAGGTTATCCGCATCATCTGTATCCTTAGCCACCCCATCAAGAAACA
 CCAACGACGCCAACTCCTGCCAAATAATCATCCCCAGAACCAGGTCAACAGGAAGTCAAG
 ACATCTACGTGTGCATGATCTCCTATGCACACAACGTGGCGGGCCAGGGCAAGTACATAG
 CTATTGCCAGCACTACTGTGGAGACCACGGACCCTGAAAAGGAGGTGGAGCCGGCTCTGG
 AGCTGTTGGAGCCATTGACCAGAAGTTTGTGGCTATCAGTGACTTGTATGAGCCATTG
 ATGATGGTTGTGAGAGCCAGGTCTGTCTGCTCCTACGATGCCACCACACACTTTG
 AGACAACCTGCAACGACATCAAAGACATCTACAACGCATGGCTGGCACGGCCTTTGACT
 TTGAGAACATGAAGCGCAACAGAACGACGCTTTTGGAGAAGCTGAGCAGTGATTGTGGC
 CGCCCCAGCCCTGCTGCCACGCTGTGTCTGTTCTCCTCGAGGGCTCCAGCATCCTC
 TGCTTCCCCACACGTTCCCATCACCCACCTCATTGATCCACTGACCAAATCCTTAACC
 CTAGCGATGGCTTGGGAGATGGGGGTTGGATAGCATCCTCTTTCTTGGCCCTCCTTAT
 CCTAGGAAAAGAGGGTCTCCTCTCCTTGTGTGTCTCTTCCCCCACCCTAATTCTTCT
 GCTCTGTTTGGGAAGACGTGGAGGAAAAGGTGACTTCTGCCCCACCCTTACCCCCA
 CTGTAGTGGCCTTTGGAGATGCCCCACCTCCCCCACCACCTCTCGCGTGTGGAGAG
 AAGGGGCCCTCCAGCACAAAGTTGCATTCCTCCCCCTAATTTATTCTAATTTATTAAC
 TTTGACCACCCCTTCTGAGCCTGCAGCCTTCCCGTGTGGCCTGAGGGCTGTCGAGTGAG
 CTGCCCCAGCCCTCCCAGCCCTTGCCAGCCTGGGGGAGTGGGGAAGGCTTGGGCATGG
 CCCCCTGGAGGTTGATTTGCTGTTTTGTTTCTTGTCTTTGTGTTCTGTGGTACTTGCTG
 AGAGAAAAGAAAAGTGAGCCAAGCAGAAGGAGGTGGGAAAACGGACCCAAACCCAGTGT
 GCCCTGCCCATGCCTTTCCTTTAGTGGTGGGAAACCCTATCTTGCAAAGTGAATGTGT
 CCCCTTCCCCACCCTCTAGTGTATTTACAGAAAACAAAACCTCCCAATAAAAACGGTTGA
 AACCTGAAAAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_001493

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_001493.1</u> , <u>NP_001484.1</u>
RefSeq Size:	2225 bp
RefSeq ORF:	1344 bp
Locus ID:	2664
UniProt ID:	<u>P31150</u>
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]