

Product datasheet for SC119203

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
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC119203 sequence for NM_001493 edited (data generated by NextGen Sequencing)

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ATGGACGAGGAATACGATGTGATCGTGCTGGGGACCGGTCTCACCGAATGCATCCTGTCCG
GGCATCATGTCTGTGAACGGGAAGAAGGTGCTGCACATGGACCGGAACCCCTACTACGGG
GGCGAGAGCTCCTCCATCACACCCTGGAGGAGCTGTATAAGCGTTTTTCAGTTGTGGAG
GGGCCCCCTGAGTCGATGGGCCGAGGCCGAGACTGGAATGTTGACCTGATTCCCAAATTC
CTCATGGCTAACGGCCAGCTGGTAAAGATGCTACTGTATACAGAGGTGACTCGCTACCTG
GACTTCAAGGTGGTGGAGGGCAGCTTTGTCTACAAGGGGGCAAGATCTACAAAGTGCCG
TCCACTGAGACTGAGGCCTTGGCTTCCAATCTGATGGGCATGTTTGAGAAACGGCGCTTC
CGCAAGTTCCTGGTGTGGTGGCAAACTTCGATGAGAATGACCCCAAGACCTTTGAGGGC
GTTGACCCCCAGACTACCAGCATGCGTGACGTCTACCGGAAGTTTGATCTGGGCCAGGAT
GTCATCGATTTCACTGGCCATGCCCTGGCGCTCTACCGCACTGATGACTACCTGGACCAG
CCCTGCCCTTGAGACCGTCAACCGCATCAAGTTGTACAGTGAGTCCCTGGCCCGGTATGGC
AAGAGCCCATATTTATACCCGCTCTACGGCTTGGGCGAGCTGCCCCAGGGTTTTGCAAGA
TTGAGTGCCATCTATGGGGGACATATATGCTGAACAACTGTGGATGACATCATCATG
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ATCTGTGACCCCACTACATCCCGGACCGTGTGCGGAAGGCTGGCCAGGTTATCCGCATC
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ATCCCCAGAACCAGGTCAACAGGAAGTCAACATCTACGTGTGCATGATCTCCTATGCA
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GACCCTGAAAAGGAGGTGGAGCCGGCTCTGGAGCTGTTGGAGCCATTGACCAGAAGTTT
GTGGCTATCAGTGACTTGTATGAGCCATTGATGATGGTGTGAGAGCCAGGTGTTCTGT
TCCTGCTCCTACGATGCCACCACACTTTGAGACAACCTGCAACGACATCAAAGACATC
TACAAACGCATGGCTGGCACGGCCTTTGACTTTGAGAACATGAAGCGCAAACAGAACGAC
GTCTTTGGAGAAGCTGAGCAGTGA
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Clone variation with respect to NM_001493.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001493 unedited ACGACTCATATAGGCGGCCGCGACATTCGCACGAGGCGGCGGCGGTGGCGGCGGCGACTG CTGCGGTGAAGGAGGAGGAGGAGCCGAGCGGGCGCTGGCACCGAGGCCTGACCATGGACG AGGAATACGATGTGATCGTGCTGGGGACCGGTCTACCGAATGCATCCTGTGGGGCATCA TGTCTGTGAACGGGAAGAAGGTGCTGCACATGGACCGGAACCCCTACTACGGGGGCGAGA GCTCCTCCATCACACCCCTGGAGGAGCTGTATAAGCGTTTTTCAGTTGCTGGAGGGGCCCC CTGAGTCGATGGGCCGAGGCCGAGACTGGAATGTTGACCTGATTCCCAAATTCCTCATGG CTAACGGGCAGCTGGTAAAGATGCTACTGTATACAGAGGTGACTCGCTACCTGGACTTCA AGGTGNGTGGAGGCGAGCTTTGTCTACAAGGGGGCAAGAGTCTACAAAGTGCCGTCCAC TGAGACTGAGGCCTTGGCTTCAATCTGAGGGCATGTTTGAGAAACGGGCTTCCGAAGTCC TGGGTTGTTTGTGGAACCTCATGAGAATGACCCCAAACCTTTGAGGGCGTTGACCCAGAC ACCACAGCGTGAGTACCGGAAGTTGACTGGCCAAGATGAATCATTTACTGCCATGCCTG CGCTCTACGACTGATGACTCCTGACCACCTGCCTGAACCGCACGCTTNAAGTGGCACAGG AGCCTGCCCGTATGGCAGACCATATTATCCGTTACNGTTGGCACTGCCCAAGTTGCA AAATGTGCTTATTGGGGAAATTTCTACAACGTGATAATTATGAACGAGGTGGGGGGCT ACTAAGGAAAAAGGGCCCTCACATTACTGGACACATCGACGTGGGGGAAGGGGCAGTTCC TATTTGTCTACACCTAACCCACA
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001493 unedited CGGCCGCAATCTAAAGNCGAGNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCAGGGTCC AACCGTTTTATTGGGAGGTTTTGTTTTTCTGTGAAATACACTAAAGGGGGGGGAAGGGGAC ACATTCACCTTTGCAAGATAAGGGTTTCCCACCACTAAAGGAAAGGCATGGGGCAGGGCAC ACTGGGGTTTGGTCCGTTTTCCACCTCCTTCTGCTTGGCTCACTTTTCTTTTCTCTCA GCAGTCCACAGAACACAAAGACAAGAAACAAAACAGCAAATCAACCTCCAACGGGGCC ATGCCAAGCCTTCCCCACTCCCCAGGCTGGGCAAGGGCTGGGAGGGGTGGGGCAGTT CACTCGACAGCCCTCAGGCCACACGAAAGGCTGCAGGCTCAAAAAGGGTGGGTCAAAGT TAATAAATTAATAAATTAAGGGGGGAGGAATGCAACTTTGTGCTGGGAGGGCCCTTCT CTCCAACACGCAAAAGTTGGTGGGGGGAGGTGNNNCATCTCCAAGGCCACTACAGGG GGGGTAAGAGCGGTGGGGGCAAAAGTCACCTTTTCTCCACGTTTTCCAAAAGAGCAGA AGAATTAGGGGTGGGGGAAAAACACCACAAGGAGAGGAACCTCTTTTCTAGGATAA GGAAGGGCCAAAAAGAGGATGCTATCCACCCCCCATTTCCAAGCCATCGTTAGGGTT AAGGAATTGGCAAGGGGACCAATGAGGGGGCGGAGGCACCGGGCGGGGGAACACAAG ACTCTCGACCCCTTCCGAAACCAACCCCGTCTGGCCAAAACGGGCTCGGGGCCGCCCC CATTACTGGCCAGCTTCTACCAACCGCCTTCGCCCGCCCTTAGTCTTTACCCAAAAG CGGCCACCCATCCTTCCCCCATCTTGCCCCCCCCAGGGTCCCAAACGGGCCGCCAT TCATACTAAA
Restriction Sites:	ECoRI-NOT
ACCN:	NM_001493
Insert Size:	2390 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).
RefSeq:	NM_001493.1 , NP_001484.1
RefSeq Size:	2225 bp
RefSeq ORF:	1344 bp
Locus ID:	2664

UniProt ID: [P31150](#), [A0A0S2Z3X8](#)

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]