

Product datasheet for **RG204923**

MIR16 (GDE1) (NM_016641) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MIR16 (GDE1) (NM_016641) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MIR16
Synonyms:	363E6.2; MIR16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204923 representing NM_016641 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCTGTGGGAGGACCAGGGCGGCCTCTGGGCCCTTCTCCTTCTGCTGCTAGTGTCTGCTGCTGG
TGACGCGGAGCCCGGTCAATGCCTGCCTCCTCACCGGCAGCCTCTTCGTTCTACTGCGGTCTTCAGCTT
TGAGCCGGTGCCTCTTGCAGGGCCCTGCAGGTGCTCAAGCCCCGGGACCGCATTCTGCCATCGCCCAC
CGTGGCGGCAGCCACGACGCGCCCGAGAACACGCTGGCGGCCATTCGGCAGGCAGCTAAGAATGGAGCAA
CAGGCGTGGAGTTGGACATTGAGTTTACTTCTGACGGGATTCCTGTCTTAAATGCACGATAACACAGTAGA
TAGGACGACTGATGGGACTGGGCGATTGTGTGATTTGACATTTGAACAAATTAGGAAGCTGAATCCTGCA
GCAAACCACAGACTCAGGAATGATTTCCCTGATGAAAAGATCCCTACCCTAAGGGAGCTGTTGCAGAGT
GCCTAAACCATAACCTCACAATCTTCTTTGATGTCAAAGGCCATGCACACAAGGCTACTGAGGCTCTAAA
GAAAATGTATATGGAATTCCTCAACTGTATAATAATAGTGTGGTCTGTTCTTTCTTCCAGAAGTTATC
TACAAGATGAGACAAACAGATCGGGATGTAATAACAGCATTAACTCACAGACCTTGGAGCCTAAGCCATA
CAGGAGATGGGAAACCAGCTATGATACTTTCTGGAAACATTTTATATTTGTTATGATGGACATTTTGCT
CGATTGGAGCATGCATAATATCTTGTGGTACCTGTGTGGAATTCAGCTTTCCTCATGAAAAGGATTTT
GTATCCCCGGCCTACTTGAAGAAGTGGTCAGCTAAAGGAATCCAGGTTGTTGGTTGGACTGTTAATACCT
TTGATGAAAAGAGTTACTACGAATCCCATCTTGGTCCAGCTATATCACTGACAGCATGGTAGAAGACTG
CGAACCTCACTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204923 representing NM_016641
Red=Cloning site Green=Tags(s)

MWLWEDQGGLLGPFSLLLLVLLLVTRSPVNA CLLTGS LFVLLRVFSFEPVPS CRALQVLKPRDRISAIAH
 RGGSHDAPENTLAAIRQAAKNGATGVELDIEFTSDGIPVLMHDNTVDRTTDGTGRLCDLTFEQIRKLNPA
 ANHRLRNDPDEKIPTLREAVAECLNHNLTIFFDVKGHAHKATEALKKMYMEFPQLYNNSSVVCSFLPEVI
 YKMRQTRDRDVITALTHR PWLSHTGDGKPRYDTFWKHFIFVMMDILLDWSMHNILWYLCGISAF LMQKDF
 VSPAYLKKWSAKGIQVVGWTVNTFDEKSYYESHLGSSYITDSMVEDCEPHF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016641

ORF Size: 993 bp

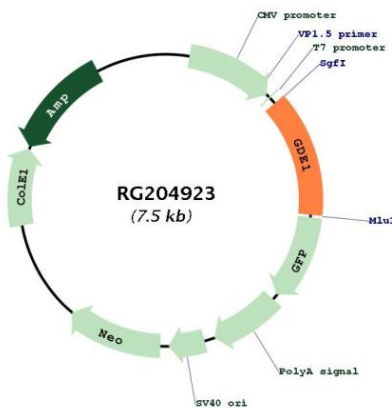
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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:	NM_016641.4
RefSeq Size:	2960 bp
RefSeq ORF:	996 bp
Locus ID:	51573
UniProt ID:	Q9NZC3
Cytogenetics:	16p12.3
Domains:	GDPD
Protein Families:	Transmembrane
Protein Pathways:	Glycerophospholipid metabolism
Gene Summary:	Has glycerophosphoinositol phosphodiesterase activity. Hydrolyzes lysoglycerophospholipids to produce lysophosphatidic acid (LPA) and the corresponding amines. Has little or no activity towards glycerophosphocholine. GDE1 activity can be modulated by G-protein signaling pathways (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204923