OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG232446

GDAP1L1 (NM_001256739) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDAP1L1 (NM_001256739) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GDAP1L1
Synonyms:	dJ881L22.1; dJ995J12.1.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG232446 representing NM_001256739
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACCCCCAACAATCTGACCCCCACCAACTGCAGCTGGTGGCCCATCTCCGCGCTGGAGAGCGATG
CGGCCAAGCCAGCGGAGGCCCCCGACGCTCCCGAGGCGGCCAGCCCCGCCCATTGGCCCAGGGAGAGCCT
GGTTCTGTACCACTGGACCCAGTCCTTCAGCTCGCAGAAGGTGCGGCTGGTGATCGCCGAGAAGGGCCTG
GTGTGCGAGGAGCGGGACGTGAGCCTGCCACAGAGCGAGCACAAGGAGCCCTGGTTCATGCGGCTCAACC
TGGGCGAGGAGGTGCCCGTCATCATCCACCGCGACAACATCATCAGTGACTATGACCAGATCATTGACTA
TGTGGAGCGCACCTTCACAGGAGGACATTTAGCCAATGCCACCACGGACCTCATGAAACTGGACCATGAA
GAGGAGCCCCAGCTCTCCGAGCCCTACCTTTCTAAACAAAAGAAGCTCATGGCCAAGATCTTGGAGCATG
ATGATGTGAGCTACCTGAAGAAGATCCTCGGGGAACTGGCCATGGTGCTGGACCAGATTGAGGCGGAGCT
GGAGAAGAGGAAGCTGGAGAACGAGGGGCAGAAATGCGAGCTGTGGCTCTGTGGCTGTGCCTTCACCCTC
GCTGATGTCCTCCTGGGAGCCACCCTGCACCGCCTCAAGTTCCTGGGACTGTCCAAGAAATACTGGGAAG
ATGGCAGCCGGCCCAACCTGCAGTCCTTCTTTGAGAGGGTCCAGAGACGCTTTGCCTTCCGGAAAGTCCT
GGGTGACATCCACACCACCCTGCTGTCGGCCGTCATCCCCAATGCTTTCCGGCTGGTCAAGAGGAAACCC
CCATCCTTCTTCGGGGCGTCCTTCCTCATGGGCTCCCTGGGTGGGATGGGCTACTTTGCCTACTGGTACC
TCAAGAAAAAATACATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

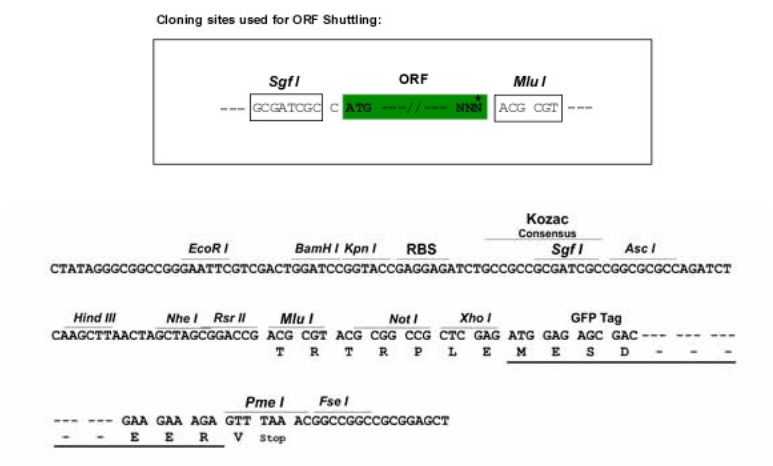
>RG232446 representing NM_001256739
Red=Cloning site Green=Tags(s)

MATPNNLTPTNCSWWPISALESDAAKPAEAPDAPEAASPAHWPRESLVLYHWTQSFSSQKVRLVIAEKGL
VCEERDVSLPQSEHKEPWFMRLNLGEEVPVIIHRDNIISDYDQIIDYVERTFTGGHLANATTDLMKLDHE
EEPQLSEPYLSKQKKLMAKILEHDDVSYLKKILGELAMVLDQIEAELEKRKLENEGQKCELWLCGCAFTL
ADVLLGATLHRLKFLGLSKKYWEDGSRPNLQSFFERVQRRFAFRKVLGDIHTTLLSAVIPNAFRLVKRKP
PSFFGASFLMGSLGGMGYFAYWYLKKKYI

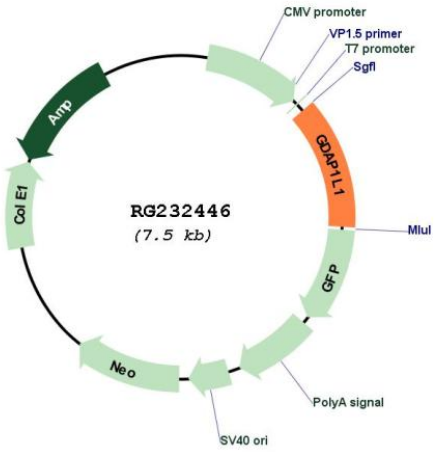
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001256739

ORF Size: 927 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:	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_001256739.2
RefSeq Size:	2624 bp
RefSeq ORF:	930 bp
Locus ID:	78997
UniProt ID:	Q96MZ0
Cytogenetics:	20q13.12
Protein Families:	Transmembrane
Gene Summary:	The ganglioside GD3 synthase causes cell differentiation with neurite sprouting when transfected into the mouse neuroblastoma cell line Neuro2a. After differentiation, the expression of several genes is upregulated, including one that encodes a protein termed ganglioside-induced differentiation-associated protein 1 (Gdap1). A similar gene was found in humans, and mutations in the human gene are associated with Charcot-Marie-Tooth type 4A disease. The protein encoded by this gene is similar in sequence to the human GDAP1 protein. Several transcript variants encoding different isoforms, as well as a noncoding transcript variant, have been found for this gene. [provided by RefSeq, Feb 2012]