

Product datasheet for **RG232633**

GDAP1L1 (NM_001256737) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDAP1L1 (NM_001256737) 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:	>RG232633 representing NM_001256737 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGACCCCAACAATCTGACCCCCACCAACTGCAGCTGGTGGCCATCTCCGCGCTGGAGAGCGATG
CGGCCAAGCCAGCGGAGGCCCGGACGCTCCCGAGGCGGCCAGCCCCGCCATTGGCCAGGGAGAGCCT
GGTTCTGTACCACTGGACCCAGTCTTCAGCTCGCAGAAGGTGCGGCTGGTGATCGCCGAGAAGGGCCTG
GTGTGCGAGGAGCGGGACGTGAGCCTGCCACAGAGCGAGCACAAGGAGCCCTGGTTCATGCGGCTCAACC
TGGGCGAGGAGGTGCCCGTCATCATCCACCGGACAACATCATCAGTGACTATGACCAGATCATTGACTA
TGTGGAGCGCACCTTACAGGAGGTGGCCGGGGCAGGTGCCCTCTGGCTTCCCTGCCAGCCCCCTGGCG
GTGCCACAGAGCACGTGGTGGCCCTGATGCCGAGGTGGGCAGCCTGCAGCACGCACGGGTGCTGCAGT
ACCGGGAGCTGTGGACGCACTGCCATGGATGCCTACACGCATGGCTGCATCCTGCATCCCGAGCTCAC
CACCGACTCCATGATCCCCAAGTACGCCACGGCCGAGATCCCGAGACATTTAGCCAATGCCACCACGGAC
CTCATGAAACTGGACCATGAAGAGGAGCCCCAGCTCTCCGAGCCCTACCTTTCTAAACAAAAGAAGTCA
TGGCAAGATCTGGAGCATGATGATGTGAGCTACCTGAAGAAGATCCTCGGGAACTGGCCATGGTGCT
GGACCAGATTGAGGCGGAGCTGGAGAAGAGGAAGCTGGAGAACGAGGGGCAGAAATGCGAGCTGTGGCTC
TGTGGCTGTGCCCTCACCTCGCTGATGTCTCCTGGGAGCCACCTGCACCGCCTCAAGTTCCTGGGAC
TGTCCAAGAAATACTGGGAAGATGGCAGCCGCCCAACCTGCAGTCCTTCTTTGAGAGGGTCCAGAGACG
CTTTGCCCTTCCGAAAAGTCTGGGTGACATCCACACCACCTGTGTGCGCCGTCATCCCCAATGCTTTT
CGGCTGGTCAAGAGGAAACCCCATCCTTCTTCCGGGCGTCTTCTCATGGGCTCCCTGGGTGGGATGG
GCTACTTTGCCTACTGGTACCTCAAGAAAAATACATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232633 representing NM_001256737
 Red=Cloning site Green=Tags(s)

MATPNNLTPTNCSWWPISALESDAAKPAEAPDAPEAASPAHWPRESLVLYHWTQSFSSQKVRLVIAEKGL
 VCEERDVSLPQSEHKPEWFMRLNLGEEVPVIIHRDNIISDYDQIIDYVERTFTGGGRGRCPSPGFPAPLA
 VPTEHVVALMPEVGLQHARVLQYRELLDALPMDAYTHGCILHPELTTDSMIPKYATAEIRRHLANATTD
 LMKLDHEEEPQLSEPYLSKQKLMAKILEHDDVSYLKKILGELAMVLDQIEAELEKRKLENEGQKCELWL
 CGCAFTLADVLLGATLHRLKFLGLSKKYWEDGSRPNLQSF FERVQRRFAFRKVLGDIHTLLLSAVIPNAF
 RLVKRKPPSFFGASFLMGSLGGMGYFAYWYLKKKYI

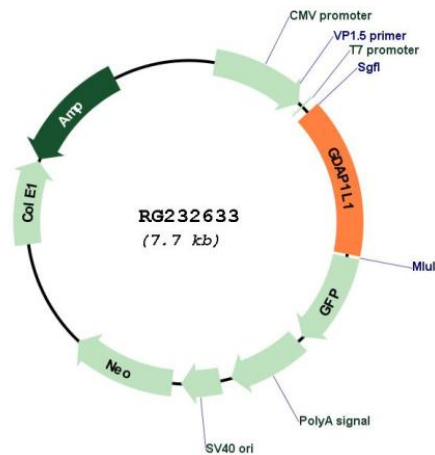
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001256737

ORF Size:	1158 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_001256737.1 , NP_001243666.1
RefSeq Size:	2855 bp
RefSeq ORF:	1161 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]