

Product datasheet for **RG232362**

GDAP1L1 (NM_001256738) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GDAP1L1 (NM_001256738) 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: >RG232362 representing NM_001256738
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCTCAACCTGGGCGAGGAGGTGCCCGTCATCATCCACCGCGACAACATCATCAGTGACTATGACC
AGATCATTGACTATGTGGAGCGCACCTTCACAGGAGAGCACGTGGTGGCCCTGATGCCCGAGGTGGGCAG
CCTGCAGCACGCACGGGTGCTGCAGTACCGGGAGCTGCTGGACGCACTGCCATGGATGCCTACACGCAT
GGCTGCATCCTGCATCCCAGCTCACCACCGACTCCATGATCCCCAAGTACGCCACGGCCGAGATCCGCA
GACATTTAGCCAATGCCACCACGGACTCATGAACTGGACCATGAAGAGGAGCCCCAGCTCTCCGAGCC
CTACCTTTCTAAACAAAAGAAGCTCATGGCCAAGATCTTGGAGCATGATGATGTGAGCTACCTGAAGAAG
ATCCTCGGGAACTGGCCATGGTGTGGACCAGATTGAGGCGGAGCTGGAGAAGGGAAGCTGGAGAACG
AGGGGCAGAAATGCGAGCTGTGGCTCTGTGGCTGTGCCTTACCCTCGCTGATGTCCTCCTGGGAGCCAC
CCTGCACCGCCTCAAGTTCCTGGGACTGTCCAAGAAATACTGGGAAGATGGCAGCCGGCCCAACCTGCAG
TCCTTCTTTGAGAGGGTCCAGAGACGCTTTGCCTCCGGAAAGTCCCTGGGTGACATCCACACCACCTGC
TGTCGGCCGTATCCCCAATGCTTCCGGCTGGTCAAGAGGAAACCCCATCCTTCTTCCGGGCGTCCCT
CCTCATGGGCTCCCTGGGTGGGATGGGCTACTTTGCCTACTGGTACCTCAAGAAAAAATACATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232362 representing NM_001256738
 Red=Cloning site Green=Tags(s)

MRLNLGEEVPVIIHRDNIISDYDQIIDYVERTFTGEHVVALMPEVGLQHARVLQYRELLDALPMDAYTH
 GCILHPELTTDSMIPKYATAEIRRHLANATTDLMKLDHEEEPQLSEPYLSKQKLMKILEHDDVSYLKK
 ILGELAMVLDQIEAELEKRKLENEGQKCELWLCGCAFTLADVLLGATLHRLKFLGLSKKYWEDGSRPNLQ
 SFFERVQRRFAFRKVLGDIHTLLSAVIPNAFRLVKKRPPSFFGASFLMGLSLGGMGYFAYWYLKKKYI

TRTRPLE - GFP Tag - V

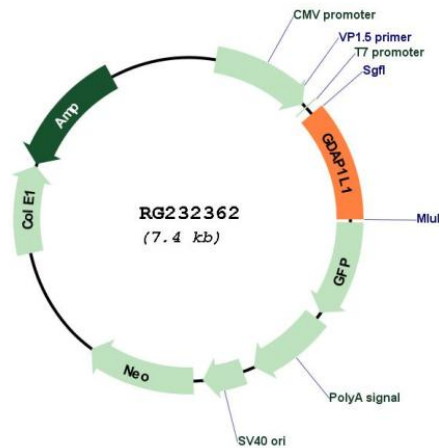
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001256738

ORF Size: 834 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_001256738.1 , NP_001243667.1
RefSeq Size:	2645 bp
RefSeq ORF:	837 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]