

## Product datasheet for **RC232362**

### GDAP1L1 (NM\_001256738) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GDAP1L1 (NM\_001256738) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** GDAP1L1  
**Synonyms:** dj881L22.1; dj995J12.1.1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232362 representing NM\_001256738  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCGGCTCAACCTGGGCGAGGAGGTGCCCGTCATCATCCACCGGACAACATCATCAGTACTATGACC  
AGATCATTGACTATGTGGAGCGCACCTTACAGGAGAGCACGTGGTGGCCCTGATGCCCGAGGTGGGCAG  
CCTGCAGCAGCACGGGTGCTGCAGTACGGGAGCTGCTGGACGCACTGCCCATGGATGCCTACACGCAT  
GGCTGCATCCTGCATCCCGAGCTCACCACCGACTCCATGATCCCCAAGTACGCCACGGCCGAGATCCGCA  
GACATTTAGCCAATGCCACCACGGACCTCATGAACTGGACCATGAAGAGGAGCCCCAGCTCCTCGAGCC  
CTACCTTTCTAAACAAAAGAAGCTCATGGCCAAGATCTTGGAGCATGATGATGTGAGCTACCTGAAGAAG  
ATCCTCGGGAACTGGCCATGGTGTGGACCAGATTGAGGCGGAGCTGGAGAAGAGGAAGCTGGAGAACG  
AGGGGCAGAAATGCGAGCTGTGGCTCTGTGGCTGTGCCTTACCCTCGCTGATGTCCTCCTGGGAGCCAC  
CCTGCACCGCCTCAAGTTCCTGGGACTGTCCAAGAAATACTGGGAAGATGGCAGCCGGCCCAACCTGCAG  
TCCTTCTTTGAGAGGGTCCAGAGACGCTTTCCTTCCGGAAAGTCTGGGTGACATCCACACCACCTGC  
TGTCGGCCGTCATCCCCAATGCTTCCGGCTGGTCAAGAGGAAACCCCATCCTTCTTGGGGCGTCCTT  
CCTCATGGGCTCCCTGGGTGGGATGGGCTACTTTCCTACTGGTACCTCAAGAAAAAATACATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232362 representing NM\_001256738  
Red=Cloning site Green=Tags(s)

MRLNLGEEVPVIIHRDNIISDYDQIIDYVERTFTGEHVVALMPEVGLQHARVLQYRELLDALPMDAYTH  
 GCILHPELTTDSMIPKYATAEIRRHLANATTDLMKLDHEEEPQLSEPYLSKQKLMKILEHDDVSYLKK  
 ILGELAMVLDQIEAELEKRKLENEGQKCELWLCGCAFTLADVLLGATLHRLKFLGLSKKYWEDGSRPNLQ  
 SFFERVQRRFAFRKVLGDIHTLLSAVIPNAFRLVKKRPPSFFGASFLMGSLGGMGYFAYWYLKKKYI

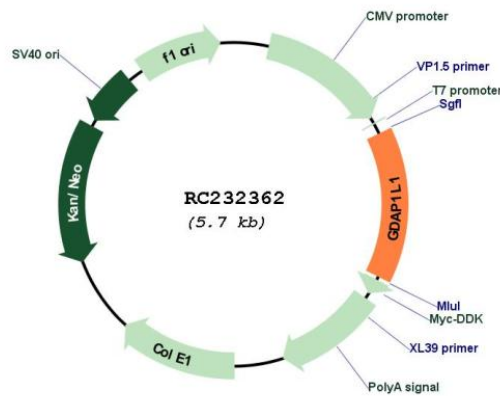
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001256738  
**ORF Size:** 834 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001256738.1</a> , <a href="#">NP_001243667.1</a>
<b>RefSeq Size:</b>	2645 bp
<b>RefSeq ORF:</b>	837 bp
<b>Locus ID:</b>	78997
<b>UniProt ID:</b>	<a href="#">Q96MZ0</a>
<b>Cytogenetics:</b>	20q13.12
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	32.5 kDa
<b>Gene Summary:</b>	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]