

## Product datasheet for **SC330510**

### GDAP1L1 (NM\_001256738) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GDAP1L1 (NM\_001256738) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** GDAP1L1  
**Synonyms:** dj881L22.1; dj995J12.1.1  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330510 representing NM\_001256738.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

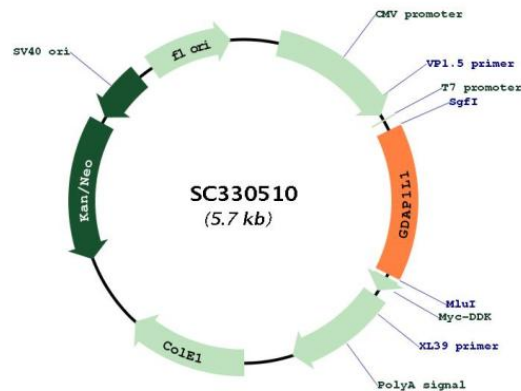
```
ATGCGGCTCAACCTGGGCGAGGAGGTGCCCGTCATCATCCACCGGACAACATCATCAGTGAATGAC
CAGATCATTGACTATGTGGAGCGCACCTTCACAGGAGAGCACGTGGTGGCCCTGATGCCCGAGGTGGGC
AGCCTGCAGCACGCACGGGTGCTGCAGTACCGGGAGCTGCTGGACGCACTGCCCATGGATGCCTACAG
CATGGCTGCATCCTGCATCCCGAGCTCACCACCGACTCCATGATCCCAAGTACGCCACGGCCGAGATC
CGCAGACATTTAGCCAATGCCACCACGGACCTCATGAAACTGGACCATGAAGAGGAGCCCCAGCTCTCC
GAGCCCTACCTTTCTAAACAAAAGAAGCTCATGGCCAAGATCTTGGAGCATGATGATGTGAGCTACCTG
AAGAAGATCCTCGGGAACTGGCCATGGTGTGGACCAGATTGAGCGGGAGCTGGAGAAGAGGAAGCTG
GAGAACGAGGGGCAGAAATGCGAGCTGTGGCTCTGTGGCTGTGCCCTTACCCTCGCTGATGTCTCTCTG
GGAGCCACCCTGCACCGCTCAAGTTTCTGGGACTGTCCAAGAAATACTGGGAAGATGGCAGCCGGCCC
AACCTGCAGTCTTTTGGAGAGGTCCAGAGACGCTTTGCCCTCCGAAAGTCTGGGTGACATCCAC
ACCACCTGTGTGGCCGTCATCCCAATGCTTTCCGGCTGGTCAAGAGGAAACCCCATCCTTCTTC
GGGGCTCCTTCTCATGGGCTCCCTGGGTGGGATGGGCTACTTGCCTACTGGTACCTCAAGAAAAAA
TACATCTAG
```

**Restriction Sites:** Sgfl-Mlul



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## Plasmid Map:



**ACCN:** NM\_001256738

**Insert Size:** 837 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001256738.1](#)

RefSeq Size: 2645 bp

RefSeq ORF: 837 bp

Locus ID: 78997

UniProt ID: [Q96MZ0](#)

Cytogenetics: 20q13.12

Protein Families: Transmembrane

MW: 32 kDa

**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]  
Transcript Variant: This variant (3) contains a distinct first exon and uses an alternate in-frame splice junction at the 5' end of an exon, compared to variant 1. The resulting isoform (3) is shorter at the N-terminus and lacks an internal segment compared to isoform 1.