

## Product datasheet for **SC112289**

### GDAP1L1 (NM\_024034) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GDAP1L1 (NM_024034) Human Untagged Clone
Tag:	Tag Free
Symbol:	GDAP1L1
Synonyms:	dj881L22.1; dj995J12.1.1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112289 sequence for NM_024034 edited (data generated by NextGen Sequencing)

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ATGGCGACCCCAACAATCTGACCCCCACCAACTGCAGCTGGTGGCCATCTCCGCGCTG
GAGAGCGATGCGGCCAAGCCAGCGGAGGCCCCGACGCTCCCAGCGCGCCAGCCCCGCC
CATTGGCCAGGGAGAGCCTGGTTCTGTACCACTGGACCCAGTCCTTCAGCTCGCAGAAG
GTGCGGCTGGTATCGCCGAGAAGGGCCTGGTGTGCGAGGAGCGGGACGTGAGCCTGCCA
CAGAGCGAGCACAAGGAGCCCTGGTTCATGCGGCTCAACCTGGGCGAGGAGGTGCCCGTC
ATCATCCACCGCGACAACATCATCAGTGACTATGACCAGATCATTGACTATGTGGAGCGC
ACCTTCACAGGAGAGCACGTGGTGGCCCTGATGCCCGAGGTGGGACGCTGCAGCAGCA
CGGGTGTGCAGTACCGGAGCTGCTGGACGCACTGCCCATGGATGCCTACACGCATGGC
TGCATCCTGCATCCCAGCTCACCACCGACTCCATGATCCCCAAGTACGCCACGGCCGAG
ATCCGCAGACATTTAGCCAATGCCACCACGGACCTCATGAAACTGGACCATGAAGAGGAG
CCCCAGCTCTCCGAGCCCTACCTTTCTAAACAAAAGAAGCTCATGGCCAAGATCTTGAG
CATGATGATGTGAGCTACCTGAAGAAGATCCTCGGGAACTGGCCATGGTGTGGACCAG
ATTGAGGCGGAGCTGGAGAAGAGGAAGCTGGAGAACGAGGGGCAGAAATGCGAGCTGTGG
CTCTGTGGCTGTGCCTTCACCCTCGCTGATGTCTCCTCGGGAGCCACCCTGCACCGCCTC
AAGTTCCTGGGACTGTCCAAGAAATACTGGGAAGATGGCAGCCGGCCCAACCTGCAGTCC
TTCTTTGAGAGGGTCCAGAGACGCTTTGCCTTCCGGAAAGTCCTGGGTGACATCCACACC
ACCCTGCTGTGCGCCGTATCCCAATGCTTTCCGGCTGGTCAAGAGGAAACCCCATCC
TTCTTCGGGCGTCTTCTCATGGGCTCCCTGGGTGGGATGGGCTACTTTGCCTACTGG
TACCTCAAGAAAAATACATCTAG

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Clone variation with respect to NM\_024034.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_024034 unedited</p> <pre>CTATTTATGTCAATACGCACTCACTATAGGGCGGCCGCGTATTCCGGCACGAGGGCGAGAG AGAGCCGCGCGCCGGAGCCTCCTTCTTCTGCCTCTGATTCCGGGCTGTCATGGCGAC CCCCACAATCTGACCCCCACCAACTGCAGCTGGTGGCCATCTCCGCGCTGGAGAGCGAT GCGGCCAAGCCAGCGGAGGCCCCCGACGCTCCCGAGGCGGCCAGCCCCGCCATTGGCCC AGGGAGAGCCTGGTTCTGTACCACTGGACCCAGTCTTTCAGCTCGCAGAAGGTGCGGCTG GTGATCGCCGAGAAGGGCCTGGTGTGCGAGGAGCGGGACGTGAGCCTGCCACAGAGCGAG CACAAGGAGCCCTGGTTCATGCGGCTCAACCTGGACGAGGAGGTGCCCGTCATCATCCAC CGCGACACCATCATCAGTGACTATGACCAGATCATTGACTATGTGGAGCGCACCTTTTAC AGGAGAGCACGTGGTGGCCCTGATGCCCGAGGTGGGCAGCCTGCAGCACGCACGGGTGCT GCAGTACCGGGAGCTGCTGGACGCACTGCCATGGATGCCTACACGCATGGCTGCATCCT GCATCCCGAGCTCACCACCGACTCCATGATTCCCAAGTACGCCACGGCCGACATCCGCGAG ACATTTAGCCAATGCCACCACGGACCTCATGAACTGGACCATGAAGAGGAGCCCCAGTT CTCCGAGCCCTACCTTTCTAACCAAAAGAAGCTCATGGCCAGATCTTGGAGCATGATGA TGCGAGCTACCTGAACAAGATCCTTGGGAACTGTCCATGGTGTGGACCAAATTGAGGC GCACCTGGACAATAGTATCTGGATACCAGGGGCATAAAGCCACCTGGGCTTTGGGGTGCG CTTTATCTCGCTGAGTCTCCGGGACCCCTGACCGGCTCAGTCTGGCCTGTCCAAATA CTGGAACAGGCGCG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_024034 unedited</p> <pre>NCTGGTGTATATCGGCTTTGGGGTCTTGCATGACGCGTGACCCAAACCTTTCCACATG CAAAAGCACAGGAAAGTGAACCCGACTGGGGTGGTGGCATGGATGCAGAGACTTCCCC GCTCTCCCGGCTCCATGGCACCCTGTAGTACAGGGACAGCCCCGGGAGTGACAGGAAGG GGGGGATATTGAAGGAGATGGCTTGGACAGAGGCTAGGAGGGGGACCTAGGTTTGTCCAC CTCCAGATCCGCCCTGCACTTGGGCTGGACTGACCTTCTGAGAGAGGGTCAACATGGCT TTTACTGAAAGTCCCACCTCACAGGGTAGAAAACTCAAGGTAGGAAGAGGATGATGGCT GCTGCCTTCGGAGATTTCTACTAAGGCCAAACCAACACATGGACCAAATCAGAAGGACA ATGAGAGGGTGTGCTCATGGTATCCGTCACCACTGCAGCCTGGTTTTTGGGTGCCACTGC CTTGGCTCAAGCTAGTCCATGTCCAGGAGAAGCGTGAAGCCCCTTCTGATCTTCAGGGAC CTCCATGGGGTCTCCGGTTATCCAGCCCCATTCAGAGGTACCGTTAGAGGAGTTGAGT CTTGATGTCGGCTTTGTCTGTGGAAGATTCCCTGNGCAAGAGGGAAGGGGAGGTGAGG GGTCANGCCCTCTGAGTCCCAGCACCTCCCAGAATCTGGCCCTGGTGGACGAAACATC CTGGGACTCACCTCAGATCCTAACCAAGTCTCCACAGTTTCATCTTGAGACCTTGAATCGA TAGAAAAGGCATTCGNGTNTTCTGGTTTTTGGTTTTTCTCTCTCTCTCGCTTTCTCTCT CTCTTTTATAGAGCCGTGGCCTTGATCACAGCATTGGCACGTCTACTTCTAACTACGCAT GGTTNACACTGACGGT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_024034
<b>Insert Size:</b>	2320 bp
<b>OTI Disclaimer:</b>	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).
<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).

**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\\_024034.3](#), [NP\\_076939.3](#)

**RefSeq Size:** 2244 bp

**RefSeq ORF:** 1104 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]  
Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.