

Product datasheet for **RC200976**

GDAP1L1 (NM_024034) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GDAP1L1 (NM_024034) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GDAP1L1
Synonyms:	dj881L22.1; dj995J12.1.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200976 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACCCCAACAATCTGACCCCCACCAACTGCAGCTGGTGGCCATCTCCGCGCTGGAGAGCGATG
CGGCCAAGCCAGCGGAGGCCCGGACGCTCCCGAGGCGGCCAGCCCCGCCATTGGCCAGGGAGAGCCT
GGTTCTGTACCACTGGACCCAGTCTTCAGCTCGCAGAAGGTGCGGCTGGTATCGCCGAGAAGGGCCTG
GTGTGCGAGGAGCGGGACGTGAGCCTGCCACAGAGCGAGCACAAGGAGCCCTGGTTCATGCGGCTCAACC
TGGGCGAGGAGGTGCCCGTCATCATCCACCGGACAACATCATCAGTGACTATGACCAGATCATTGACTA
TGTGGAGCGCACCTTCACAGGAGAGCACGTGGTGGCCCTGATGCCCGAGGTGGGCAGCCTGCAGCAGCA
CGGGTGTGCAGTACCGGAGCTGCTGGACGCACTGCCCATGGATGCCTACACGCATGGTGCATCCTGC
ATCCCAGCTCACACCGACTCCATGATCCCAAGTACGCCACGGCCGAGATCCGCAGACATTTAGCCAA
TGCCACCACGGACCTCATGAAACTGGACCATGAAGAGGAGCCCCAGCTCTCCGAGCCCTACCTTTCTAAA
CAAAGAAGCTCATGGCCAAGATCTTGGAGCATGATGATGTGAGCTACCTGAAGAAGATCCTCGGGGAAC
TGGCCATGGTGTGACCAGATTGAGGCGGAGCTGGAGAAGAGGAAGCTGGAGAACGAGGGGCAGAAATG
CGAGCTGTGGCTCTGTGGCTGTGCCTTCACCCTCGCTGATGTCTCTGGGAGCCACCCTGCACCCGCTC
AAGTTCCTGGGACTGTCCAAGAAATACTGGGAAGATGGCAGCCGCCCCAACCTGCAGTCTCTTTGAGA
GGGTCCAGAGACGCTTTGCCTTCGGAAAAGTCTGGGTGACATCCACACCCTGCTGTGCGCCGCTCAT
CCCCAATGCTTTCCGGTGGTCAAGAGGAAACCCCATCCTTCTTCGGGGCGTCTTCTCATGGGCTCC
CTGGTGGGATGGGCTACTTTGCCTACTGGTACCTCAAGAAAAAATACATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC200976 protein sequence
Red=Cloning site Green=Tags(s)

MATPNNLTPTNCSWWPISALESDAAKPAEAPDAPEAASPAHWPRESLVLYHWTQSFSSQKVRLVIAEKGL
VCEERDVSLPQSEHKPEWFMRLNLGEEVPVIIHRDNIISDYDQIIDYVERTFTGEHVVALMPEVGLQHA
RVLQYRELLDALPMDAYTHGCILHPELTTDSMIPKYATAEIRRHLANATDLMKLDHEEEPQLSEPYLSK
QKKLMAKILEHDDVSYLKKILGELAMVLDQIEAELEKRKLENEGQKCELWLCGCAFTLADVLLGATLHRL
KFLGLSKKYWEDGSRPNLQSFFERVQRRFAFRKVLGDIHTLLSAVIPNAFRLVKKRPPSFFGASFLMGS
LGGMGYFAYWYLKKKYI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6398_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_024034

ORF Size: 1101 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:

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_024034.6](#)

RefSeq Size: 2798 bp

RefSeq ORF: 1104 bp

Locus ID: 78997

UniProt ID: [Q96MZ0](#)

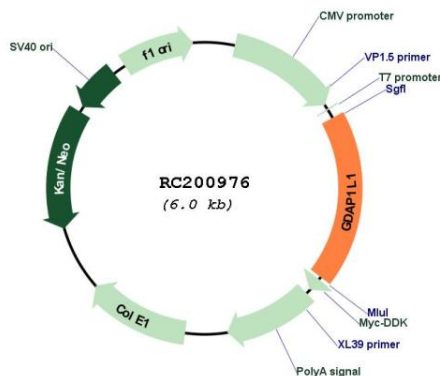
Cytogenetics: 20q13.12

Protein Families: Transmembrane

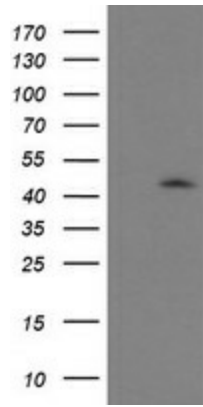
MW: 42 kDa

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]

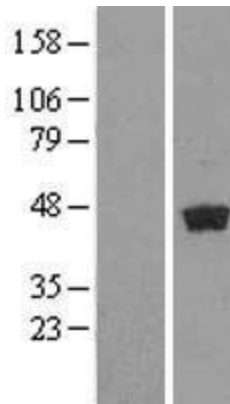
Product images:



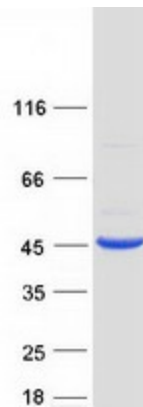
Circular map for RC200976



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GDAP1L1 (Cat# RC200976, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GDAP1L1 (Cat# [TA503153]). Positive lysates [LY411411] (100ug) and [LC411411] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY411411]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200976 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GDAP1L1 protein (Cat# [TP300976]). The protein was produced from HEK293T cells transfected with GDAP1L1 cDNA clone (Cat# RC200976) using MegaTran 2.0 (Cat# [TT210002]).