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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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACCCCCAACAATCTGACCCCCACCAACTGCAGCTGGTGGCCCATCTCCGCGCTGGAGAGCGATG
CGGCCAAGCCAGCGGAGGCCCCCGACGCTCCCGAGGCGGCCAGCCCCGCCCATTGGCCCAGGGAGAGCCT
GGTTCTGTACCACTGGACCCAGTCCTTCAGCTCGCAGAAGGTGCGGCTGGTGATCGCCGAGAAGGGCCTG
GTGTGCGAGGAGCGGGACGTGAGCCTGCCACAGAGCGAGCACAAGGAGCCCTGGTTCATGCGGCTCAACC
TGGGCGAGGAGGTGCCCGTCATCATCCACCGCGACAACATCATCAGTGACTATGACCAGATCATTGACTA
TGTGGAGCGCACCTTCACAGGAGAGCACGTGGTGGCCCTGATGCCCGAGGTGGGCAGCCTGCAGCACGCA
CGGGTGCTGCAGTACCGGGAGCTGCTGGACGCACTGCCCATGGATGCCTACACGCATGGCTGCATCCTGC
ATCCCGAGCTCACCACCGACTCCATGATCCCCAAGTACGCCACGGCCGAGATCCGCAGACATTTAGCCAA
TGCCACCACGGACCTCATGAAACTGGACCATGAAGAGGAGCCCCAGCTCTCCGAGCCCTACCTTTCTAAA
CAAAAGAAGCTCATGGCCAAGATCTTGGAGCATGATGATGTGAGCTACCTGAAGAAGATCCTCGGGGAAC
TGGCCATGGTGCTGGACCAGATTGAGGCGGAGCTGGAGAAGAGGAAGCTGGAGAACGAGGGGCAGAAATG
CGAGCTGTGGCTCTGTGGCTGTGCCTTCACCCTCGCTGATGTCCTCCTGGGAGCCACCCTGCACCGCCTC
AAGTTCCTGGGACTGTCCAAGAAATACTGGGAAGATGGCAGCCGGCCCAACCTGCAGTCCTTCTTTGAGA
GGGTCCAGAGACGCTTTGCCTTCCGGAAAGTCCTGGGTGACATCCACACCACCCTGCTGTCGGCCGTCAT
CCCCAATGCTTTCCGGCTGGTCAAGAGGAAACCCCCATCCTTCTTCGGGGCGTCCTTCCTCATGGGCTCC
CTGGGTGGGATGGGCTACTTTGCCTACTGGTACCTCAAGAAAAAATACATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

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

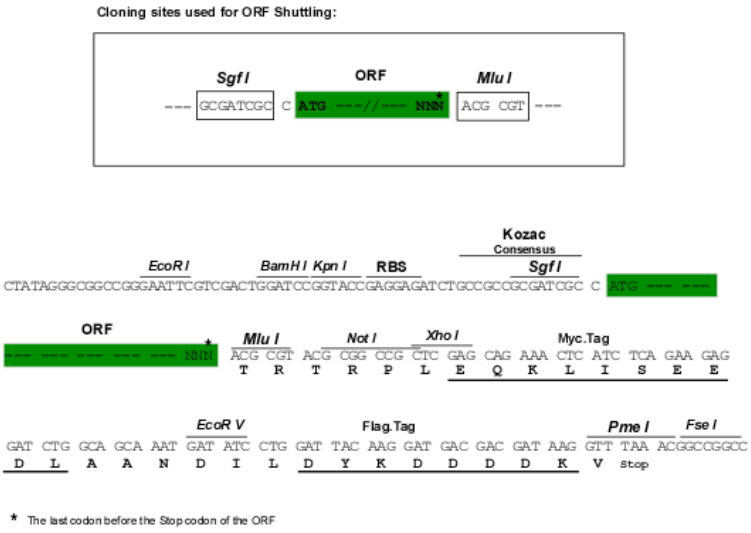
MATPNNLTPTNCSWWPISALESDAAKPAEAPDAPEAASPAHWPRESLVLYHWTQSFSSQKVRLVIAEKGL
VCEERDVSLPQSEHKEPWFMRLNLGEEVPVIIHRDNIISDYDQIIDYVERTFTGEHVVALMPEVGSLQHA
RVLQYRELLDALPMDAYTHGCILHPELTTDSMIPKYATAEIRRHLANATTDLMKLDHEEEPQLSEPYLSK
QKKLMAKILEHDDVSYLKKILGELAMVLDQIEAELEKRKLENEGQKCELWLCGCAFTLADVLLGATLHRL
KFLGLSKKYWEDGSRPNLQSFFERVQRRFAFRKVLGDIHTTLLSAVIPNAFRLVKRKPPSFFGASFLMGS
LGGMGYFAYWYLKKKYI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024034

ORF Size: 1101 bp

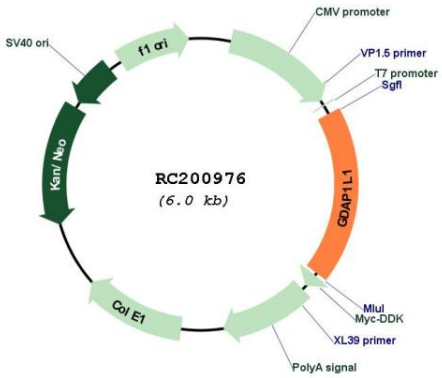
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

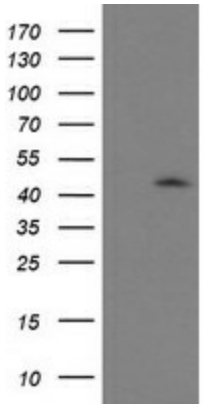
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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]

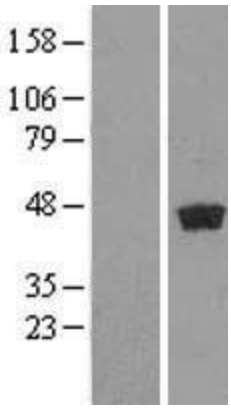
Product images:



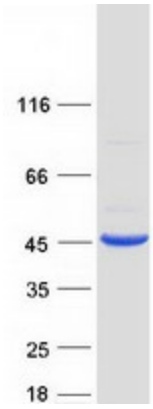
Circular map for RC200976



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 un-transfected 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]).