

Product datasheet for **RC204521**

Elongation of very long chain fatty acids protein 3 (ELOVL3) (NM_152310) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elongation of very long chain fatty acids protein 3 (ELOVL3) (NM_152310) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elongation of very long chain fatty acids protein 3
Synonyms:	CIG-30; CIG30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204521 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTCACAGCCATGAATGTCTCACATGAAGTAAATCAGCTGTTCCAGCCCTATAACTTCGAGCTGTCCA
AGGACATGAGGCCCTTTTCGAGGAGTATTGGCAACCTATTCCCATAGCCCTGATCTACCTGGTTCT
CATCGCTGTGGGCAGAACTACATGAAGAACGCAAGGGCTTCAACCTGCAAGGGCTCTCATCCTCTGG
TCCTTCTGCCTTGCAATCTTCAGTATCCTGGGGCAGTGAGGATGTGGGCATTATGGGACTGTGCTAC
TTACCGGGGGCTAAAGCAAACCGTGTGCTTCATCAACTTCATCGATAATTCCACAGTCAAATTCGGTC
CTGGGTCTTTCTCTCAGCAAGGTCATAGAAGTCTGGAGACACAGCCTTCATCATCCTGCGTAAGCGGCCA
CTCATCTTTATTCACTGGTACCACACAGCACAGTGCTCGTGACACAAGCTTTGGATACAAGAACAAG
TGCCTGCAGGAGGCTGGTTCGTACCATGAACCTTTGGTGTTCATGCCATCATGTACACCTACTACACTCT
GAAGGCTGCCAACGTGAAGCCCCCAAGATGCTGCCCATGCTCATCACCAGCCTGCAGATCTTGAGATG
TTTGTAGGAGCCATCGTCAGCATCCTCAGTACATCTGGAGGCAGGATCAGGGATGCCACACCACGATGG
AACACTTATTCTGGTCTTCATCTTGATATGACCTATTTTCATCCTCTTGCCCACTTCTCTGCCAGAC
CTACATCAGGCCCAAGGTCAAAGCCAAGACCAAGAGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204521 protein sequence
 Red=Cloning site Green=Tags(s)

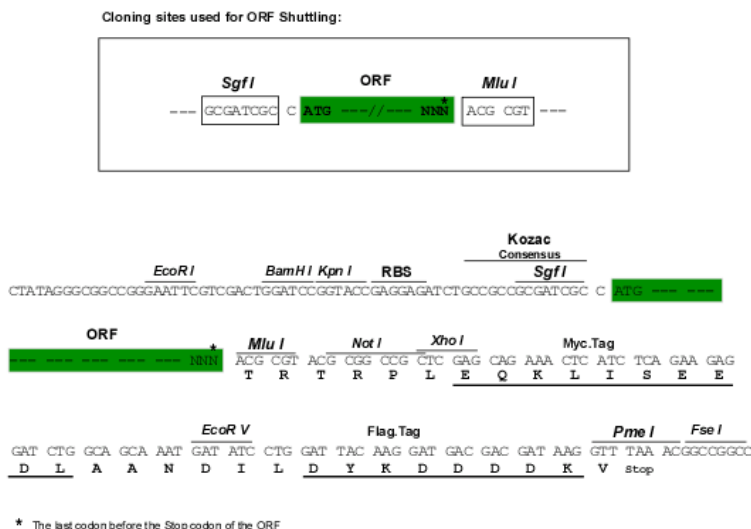
MVTAMNVSHEVNQLFQPYNFELSKDMRPFFEEYWATSFPIAL IYLVLI AVGQNYMKERKGFNLQGPLILW
 SFCLAIFSILGAVRMW GIMGTVLLTGGLKQTVCFINFDNSTVKFWSWVFLLSKVIELGDTAFIILRKRP
 LFIHWHYHSTVLVYTSFGYKNKVPAGGWFTVMNFGVHAIMYTYTLKAANVKPPKMLPMLITSLQILQM
 FVGAIVSILTYIWRQDQGCHTMEHLFWSFILYMTYFILFAHFFCQTYIRPKVKAKTKSQ

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6325_g12.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_152310

ORF Size: 810 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_152310.3](#)

RefSeq Size: 1455 bp

RefSeq ORF: 813 bp

Locus ID: 83401

UniProt ID: [Q9HB03](#)

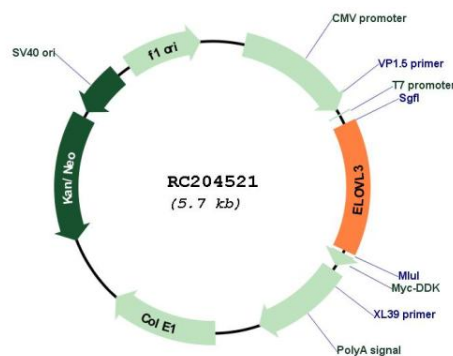
Cytogenetics: 10q24.32

Protein Families: Transmembrane

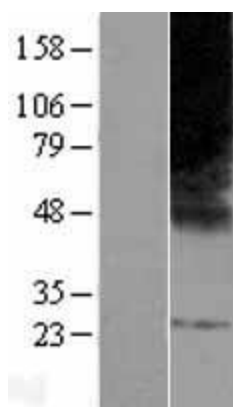
MW: 31.5 kDa

Gene Summary: This gene encodes a protein that belongs to the GNS1/SUR4 family. Members of this family play a role in elongation of long chain fatty acids to provide precursors for synthesis of sphingolipids and ceramides. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RC204521



Western blot validation of overexpression lysate (Cat# [LY407637]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204521 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).