

Product datasheet for **RC233581**

ELOVL5 (NM_001242830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELOVL5 (NM_001242830) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ELOVL5
Synonyms:	dj483K16.1; HELO1; SCA38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC233581 representing NM_001242830 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACATTTTGATGCATCACTTAGTACCTATTTCAAGGCATTGCTAGGCCCTCGAGATACTAGAGTAA
AAGGATGGTTTCTTCTGGACAATTATATACCCACATTTATCTGCTCTGTCATATATTTACTAATTGTATG
GCTGGGACAAAATACATGAGGAATAAACAGCCATTCTCTTGCCGGGGGATTTTAGTGGTGATAACCTT
GGACTCACACTGCTGTCTGTATATGTTCTGTGAGTTAGTAACAGGAGTATGGGAAGGCAAATACAAC
TCTTCTGTCAGGGCACACGCACCGCAGGAGAATCAGATATGAAGATTATCCGTGTCCTCTGGTGGTACTA
CTTCTCCAAACTCATAGAATTTATGGACTTTTCTTCTTCATCCTGCGCAAGAACAACCACCAGATCAGG
GTCCTGCACGTCTACCACCATGCCTCGATGCTGAACATCTGGTGGTTTGTGATGAACTGGTCCCTGCG
GCCACTCTCAGTTTGTGCTGACAATCATCCAGACCAGCTGCGGGGTCTCTGGCCGTGCACATTCCTC
TTGGTTGGTTGATTTCCAGATTGGATACATGATTTCCCTGATTGCTCTCTTCACAAACTTCTACATTCA
GACCTACAACAAGAAAGGGGCTCCCGAAGGAAAGACCACCTGAAGGACCACCAGAATGGGTCCATGGCT
GCTGTGAATGGACACACCAACAGCTTTTCACCCCTGAAAAACAATGTGAAGCCAAGGAAGCTGCGGAAGG
ATTGAAGTCAAAGAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC233581 representing NM_001242830
 Red=Cloning site Green=Tags(s)

MEHFDASLSTYFKALLGPRDTRVKGWFLLDNYIPTFICSVIYLLIVWLGPKYMRNKQPFSCRGILVVYNL
 GLTLLSLYMFCELVTVGVEGKYNFFCQGTRTAGESDMKIIRVLWVYFYSKLIIEFMDTFFFILRKNNHQIT
 VLHVYHHASMLNIWWFVMNWVPCGHSSVCADNHPDQLRGHLAVHIPSWLVVFPDWIHFDPDCSLHKLLHS
 DLQQRGLPKERPPEGPPPEWVHGCEWTHQQLFTPGKQCEAKEAAEGLKSKN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001242830

ORF Size: 786 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_001242830.1](#), [NP_001229759.1](#)

RefSeq Size: 2913 bp

RefSeq ORF: 789 bp

Locus ID: 60481

UniProt ID: [Q9NYP7](#)

Cytogenetics: 6p12.1

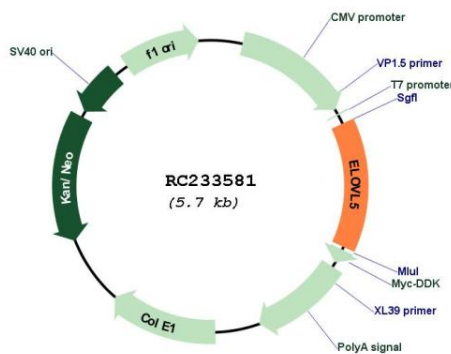
Protein Families: Transmembrane

Protein Pathways: Biosynthesis of unsaturated fatty acids

MW: 31.2 kDa

Gene Summary: This gene belongs to the ELO family. It is highly expressed in the adrenal gland and testis, and encodes a multi-pass membrane protein that is localized in the endoplasmic reticulum. This protein is involved in the elongation of long-chain polyunsaturated fatty acids. Mutations in this gene have been associated with spinocerebellar ataxia-38 (SCA38). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2014]

Product images:



Circular map for RC233581