

## Product datasheet for RC232486

### ELOVL5 (NM\_001242828) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ELOVL5 (NM_001242828) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ELOVL5
Synonyms:	dj483K16.1; HELO1; SCA38
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232486 representing NM_001242828 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGAACATTTTGATGCATCACTTAGTACCTATTTCAAGGCATTGCTAGGCCCTCGAGATACTAGAGTAA  
AAGGATGGTTTCTTCTGGACAATTATATACCCACATTTATCTGCTCTGTCATATATTTACTAATTGTATG  
GCTGGGACAAAATACATGAGGAATAAACAGCCATTCTCTTGCCGGGGGATTTTAGTGGTGATAACCTT  
GGACTCACAAGTGTCTCTGTATATGTTCTGTGAGTCCAAAAGGGAGCAACCCGTCGATCTGCCTGTG  
CCTCACGAACTGATCCTTCGACTCAGCAGCAGCTGCCAGAAAACAGGTTAGTAACAGGAGTATGGGAAGG  
CAAATACAACCTTCTTCTGTGAGGGCACACGCACCCGAGGAGAATCAGATATGAAGATTATCCGTGTCCTC  
TGGTGGTACTACTTCTCCAACTCATAGAAATTTATGGACACTTTCTTCTCATCTGCGCAAGAACAACC  
ACCAGATCACGGTCTGCACGCTACCACCATGCCTCGATGCTGAACATCTGGTGGTTTGTGATGAACTG  
GGTCCCTGCGGCCACTTATTTTGGTGCCACACTTAATAGCTTCATCCAGTCCTCATGTACTCTTAC  
TATGGTTTGTGTCAGTCCCTTCCATGCGTCCATACCTCTGGTGAAGAAGTACATCACTCAGGGGCAGC  
TGCTTCAGTTTGTGTCGACAATCATCCAGACCAGCTGCGGGTCACTGGCCGTGCACATCCCTCTTGG  
TTGGTTGATTTCCAGATTGGATACATGATTTCCCTGATTGCTCTTCCAAACTTCTACATTACAGACC  
TACAACAAGAAAGGGCCCTCCCAGGAAAGACCCTGAAGACCACCAAGTGGTCCATGGCTGCTG  
TGAATGGACACCAACAGCTTTTACCCTGGAAAACAATGTGAAGCCAAGGAAGCTGCGGAAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC232486 representing NM\_001242828  
Red=Cloning site Green=Tags(s)

MEHFDASLSTYFKALLGPRDTRVKGWFLLDNYIPTFICSVIYLLIVWLGPKYMRNKQPFSCRIGILVVYNL  
 GLTLLSLYMFCEKREQPRRSACASRTDPSTQQQLPENRLVTGVWEGKYNFFCQGRTRTAGESDMKIIRVL  
 WYYYFSKLIIEFMDTFFFILRKNNHQITVLHVVYHHASMLNIWWFVMNWVPCGHSYFGATLNSFIHVLMYSY  
 YGLSSVPSMRPYLWKKYITQGQLLQFVLTIIQTSCGVIWPCTFPLGWL YFQIGYMISLIALFTNFYIQT  
 YNKKGASRRKDHLDKHQNGSMAAVNGHTNSFSPLENNVKPRKLRKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

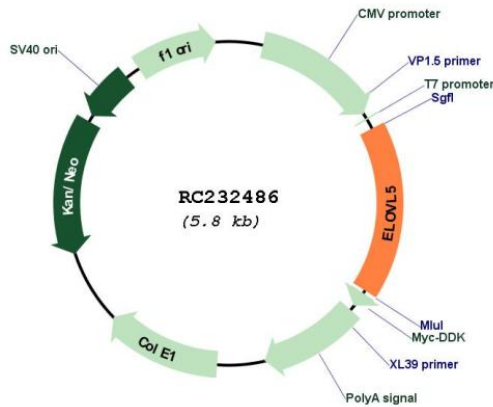
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001242828

**ORF Size:** 978 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001242828.1</a> , <a href="#">NP_001229757.1</a>
<b>RefSeq Size:</b>	3119 bp
<b>RefSeq ORF:</b>	981 bp
<b>Locus ID:</b>	60481
<b>UniProt ID:</b>	<a href="#">Q9NYP7</a>
<b>Cytogenetics:</b>	6p12.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Biosynthesis of unsaturated fatty acids
<b>MW:</b>	38.9 kDa
<b>Gene Summary:</b>	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]