

## Product datasheet for **SC330024**

### ELOVL5 (NM\_001242828) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ELOVL5 (NM\_001242828) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ELOVL5  
**Synonyms:** dj483K16.1; HELO1; SCA38  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330024 representing NM\_001242828.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

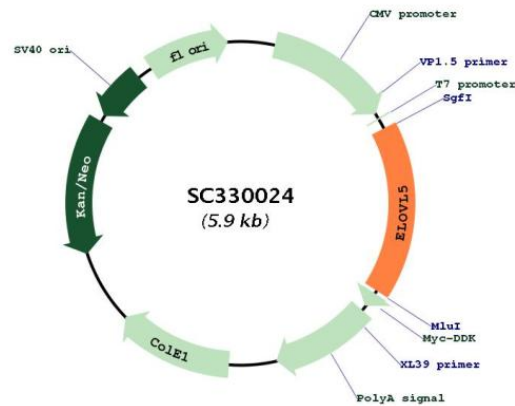
```
ATGGAACATTTTGATGCATCACTTAGTACCTATTTCAAGGCATTGCTAGGCCCTCGAGATACTAGAGTA
AAAGGATGGTTTCTTCTGGACAATTATATACCCACATTTATCTGCTCTGTCATATATTTACTAATTGTA
TGGCTGGGACAAAATACATGAGGAATAAACAGCCATTCTCTGCGGGGGATTTTAGTGGTGATAAC
CTTGGACTCACACTGCTGTCTGTATATGTTCTGTGAGTCCAAAAGGGAGCAACCCGTCGATCTGCC
TGTGCCTCACGAAGTATCCTTCGACTCAGCAGCAGCTGCCAGAAAACAGTTAGTAACAGGAGTATGG
GAAGGCAAATACAACCTTCTTCTGTCAGGGCACACGCACCCGAGGAGAATCAGATATGAAGATTATCCGT
GTCCTCTGGTGGTACTACTTCTCCAAACTCATAGAATTTATGGACTTTCTTCTTCATCCTGCGCAAG
AACAAACCACAGATCACGGTCTGCACGCTACCACCATGCCTCGATGCTGAACATCTGGTGGTTTGTG
ATGAACTGGTCCCCTGCGGCCACTCTTATTTGGTGCCACACTTAATAGCTTCATCCACGTCCTCATG
TACTCTTACTATGGTTTGTGTCAGTCCCTCCATGCGTCCATACCTCTGGTGGGAAGAAGTACATCACT
CAGGGGCAGCTGCTTCAGTTTGTGCTGACAATCATCCAGACCAGCTGCGGGGTCACTGGCCGTGCACA
TTCCCTCTGGTTGGTTGATTTCCAGATTGGATACATGATTTCCCTGATTGCTCTTTCACAACTTC
TACATTCAGACCTACAACAAGAAAGGGCCCTCCGAAGGAAAGACCACCTGAAGGACCACCAGAATGGG
TCCATGGCTGCTGTGAATGGACACACCAACAGCTTTTCACCCCTGGAAAACAATGTGAAGCCAAGGAAG
CTGCGGAAGGATTGA
```

**Restriction Sites:** Sgfl-Mlul



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## Plasmid Map:



ACCN: NM\_001242828

Insert Size: 981 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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\\_001242828.1](https://www.ncbi.nlm.nih.gov/RefSeq/seq/statements/NC_019961.2/NC_019961.2.gene?term=N019961.2)

RefSeq Size:	3119 bp
RefSeq ORF:	981 bp
Locus ID:	60481
UniProt ID:	<u>Q9NYP7</u>
Cytogenetics:	6p12.1
Protein Families:	Transmembrane
Protein Pathways:	Biosynthesis of unsaturated fatty acids
MW:	38.4 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]  
Transcript Variant: This variant (2) contains an additional in-frame coding exon compared to variant 1. The resulting isoform (2) is longer with an internal protein segment of 27 aa that is not found in isoform 1.