

Product datasheet for **SC334945**

ELOVL7 (NM_001297617) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELOVL7 (NM_001297617) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELOVL7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001297617, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGCCCATTAATATTCTATATCAAGAGTTGAAGATTGGCTCCTCATGTCTCGCCTCTGCCAC
AAACCATCCTCCTAGGATTCTATGTCTATTTTGTCACTTCCTTGGGACCAAGCTCATGGAAATCGCAA
GCCCTTGAACCAAGAAAGCAATGATAACGTACAATTTTTTCATAGTACTCTTTTCTGTGTATATGTGT
TATGAGTTTGTGATGTCTGGCTGGGGTATAGGTTATTCATTTTCGATGTGACATTGTTGACTATTCACGGT
CACCCACAGCTTTGAGGATGGCAGTACCTGCTGGCTTTATTACTTCTCCAAATTTATTGAGCTATTAGA
TAGCATCTTTTTTGTCTGCGCAAGAAAAATAGCCAAGTGACTTTCCTTCATGTATTCCATCATACCATC
ATGCCGTGGACCTGGTGGTTGGAGTCAAATTTGCTGCAGTGGTTGGGAACATTCATGCCCTTCTAA
ATACAGCTGTACATGTAGTCATGTATTCCTACTATGGACTTTCTGCATTGGGGCCAGCCTACCAGAAGTA
TTTGTGGTGAAAAAATATTTGACATCATTACAGCTTGTCCAGTTTGTATTGTGCCATCCACATAAGC
CAGTTCTTTTTCATGGAGGATTGCAAGTATCAGTTTCCAGTCTTTGCGTGCATCATTATGAGTTACAGTT
TCATGTTTCTGCTGCTCTTTCTCCATTTTGGTACCGTGCTTACACCAAAGGTCAGAGGTTGCCAAAAAC
TGTGAAAAATGGAACCTTGCAAAAACAAAGATAATTGA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001297617
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_001297617.1](#), [NP_001284546.1](#)

RefSeq Size: 4249 bp

RefSeq ORF: 807 bp

Locus ID: 79993

UniProt ID: [A1L3X0](#)

Cytogenetics: 5q12.1

Protein Families: Transmembrane

Gene Summary: Catalyzes the first and rate-limiting reaction of the four reactions that constitute the long-chain fatty acids elongation cycle. This endoplasmic reticulum-bound enzymatic process allows the addition of 2 carbons to the chain of long- and very long-chain fatty acids (VLCFAs) per cycle. Condensing enzyme with higher activity toward C18 acyl-CoAs, especially C18:3(n-3) acyl-CoAs and C18:3(n-6)-CoAs. Also active toward C20:4-, C18:0-, C18:1-, C18:2- and C16:0-CoAs, and weakly toward C20:0-CoA. Little or no activity toward C22:0-, C24:0-, or C26:0-CoAs. May participate in the production of saturated and polyunsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) has two additional exons in the 5' region, which results in translation initiation at an alternate start codon, compared to variant 1. The resulting isoform (2) is shorter and has an alternate N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.