

Product datasheet for **SC317051**

ELOVL7 (NM_001104558) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELOVL7 (NM_001104558) 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:	>SC317051 representing NM_001104558. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCTTCAGTGATCTTACATCGAGGACTGTGCATCTTTATGATAATTGGATCAAAGATGCTGATCCA
AGAGTTGAAGATTGGCTCCTCATGTCTCGCCTCTGCCACAAACCATCCTCCTAGGATTCTATGTCTAT
TTTGTCACTTCCTGGGACCAAAGCTCATGGAAAATCGCAAGCCCTTTGAACTCAAGAAAGCAATGATA
ACGTACAATTTTTTCATAGTACTCTTTCTGTGTATATGTGTTATGAGTTTGATGTCTGGCTGGGGT
ATAGGTTATTCATTTTCGATGTGACATTGTTGACTATTCACGGTCACCCACAGCTTTGAGGATGGCACGT
ACCTGCTGGCTTTATTACTTCTCCAAATTTATTGAGCTATTAGATACGATCTTTTTTTGTTCTGCGCAAG
AAAAATAGCCAAGTGACTTTCCTTCATGTATTCCATCATACCATCATGCCGTGGACCTGGTGGTTTTGGA
GTCAAATTTGCTGCAGGTGGTTTTGGGAACATTCCATGCCCTTCTAAATACAGCTGTACATGTAGTCATG
TATTCCTACTATGGACTTCTGCATTGGGGCCAGCCTACCAGAAGTATTTGGTGGAAAAAATATTTG
ACATCATTACAGCTTGTCCAGTTTGTTATTGTCGCCATCCACATAAGCCAGTTCTTTTTCATGGAGGAT
TGCAAGTATCAGTTTCCAGTCTTTGCGTGCATCATTATGAGTTACAGTTTCATGTTTCTGCTGCTCTTT
CTCCATTTTGGTACCGTGCTTACACCAAAGGTCAGAGGTTGCCCAAACGTGAAAAATGGAACCTGC
AAAAACAAAGATAATTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001104558
Insert Size:	846 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001104558.1](#)

RefSeq Size: 3851 bp

RefSeq ORF: 846 bp

Locus ID: 79993

UniProt ID: [A1L3X0](#)

Cytogenetics: 5q12.1

Protein Families: Transmembrane

MW: 33.4 kDa

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 (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same isoform.