

Product datasheet for **SC330414**

ELOVL1 (NM_001256401) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELOVL1 (NM_001256401) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELOVL1
Synonyms:	CGI-88; IKSHD; Ssc1
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001256401, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGCTGTTGTGAACTTGTACCAAGAGGTGATGAAGCACGCAGATCCCCGGATCCAGGGCTACCCTC
TGATGGGGTCCCCCTTGCTAATGACCTCCATTCTCCTGACCTACGTGACTTCGTTCTCTCACTGGGCC
TCGCATCATGGCTAATCGGAAGCCCTCCAGCTCCGTGGCTTCATGATTGTCTACAACTTCTCACTGGTG
GCACTCTCCCTCTACATTGTCTATGAGATGGTTCGGGTGGCTGGCTCTTCCTCTTCCAAGTTCATTG
AGCTGATGGACACAGTGATCTTTATTCTCCGAAAGAAAGACGGGCAGGTGACCTTCTACATGTCTTCCA
TCACTCTGTGCTTCCCTGGAGCTGGTGGTGGGGGTAAGATTGCCCGGGAGGAATGGGCTCTTCCAT
GCCATGATAAACTCTTCCGTGCATGTCATAATGTACCTGTACTACGGATTATCTGCCTTTGGCCCTGTGG
CACAACCTACCTTTGGTGGAAAAAGCACATGACAGCCATTGAGCTGATCCAGTTTGCCTGGTCTCACT
GCACATCTCCCAGTACTACTTTATGTCCAGCTGTAACCTACCAGTACCCAGTCATTATTCACCTCATCTGG
ATGTATGGCACCATCTTCTTCATGCTGTTCTCCAATTCTGGTATCACTTTATACCAAGGGCAAGCGGC
TGCCCCGTGCACTTCAGCAAAATGGAGCTCCAGGTATTGCCAAGGTCAAGGCCAAGTGA
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001256401



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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](#)

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_001256401.1](#), [NP_001243330.1](#)

RefSeq Size: 1457 bp

RefSeq ORF: 759 bp

Locus ID: 64834

UniProt ID: [Q9BW60](#)

Cytogenetics: 1p34.2

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 that exhibits activity toward saturated and monounsaturated acyl-CoA substrates, with the highest activity towards C22:0 acyl-CoA. May participate in the production of both saturated and monounsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. Important for saturated C24:0 and monounsaturated C24:1 sphingolipid synthesis. Indirectly inhibits RPE65 via production of VLCFAs.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) lacks an alternate, in-frame exon in the coding region, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1.