

Product datasheet for **SC319359**

ELOVL1 (NM_022821) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELOVL1 (NM_022821) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELOVL1
Synonyms:	CGI-88; IKSHD; Ssc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_022821.2
GGCAGGCAGGCTGGCCCCGGGGACTTCTCTCTGGCCCTGCTCCCTCCGAGCGCTCCGCCG
TTGCCCGCTGGCCCCTACGGAGTCTTAGCCAGGATGGAGGCTGTTGTGAAGTGTACCC
AAGAGGTGATGAAGCACGCAGATCCCCGGATCCAGGGCTACCCTCTGATGGGGTCCCCCT
TGCTAATGACCTCCATTCTCTGACCTACGTGTAAGTTCGTTCTCTCACTGGGCCTCGCA
TCATGGCTAATCGGAAGCCCTTCCAGCTCCGTGGCTTCATGATTGTCTACAAGTCTCAC
TGGTGGCACTCTCCCTCTACATTGTCTATGAGTTCCTGATGTCGGGCTGGCTGAGCACCT
ATACCTGGCGCTGTGACCCTGTGGACTATTCCAACAGCCCTGAGGCCTTAGGATGGTTC
GGGTGGCCTGGCTCTTCTCTTCCAAGTTCATTGAGCTGATGGACACAGTGATCTTTA
TTCTCCGAAAGAAAGACGGGCAGGTGACCTTCTACATGTCTCCATCACTCTGTGCTTC
CCTGGAGCTGGTGGTGGGGGTAAGATTGCCCGGGAGGAATGGGCTCTTCCATGCCA
TGATAAATCTTCCGTGCATGTCATAATGTACCTGTAAGTACGGATTATCTGCCTTTGGCC
CTGTGGCAACAACCTACCTTTGGTGGAAAAAGCACATGACAGCCATTCAGCTGATCCAGT
TTGTCTGGTCTCACTGCACATCTCCAGTACTACTTTATGTCCAGCTGTAAGTACCAGT
ACCCAGTCAATATCACCTCATCTGGATGTATGGCACCATCTTCTTCATGCTGTTCTCCA
ACTTCTGGTATCACTCTTATACCAAGGGCAAGCGGCTGCCCGTGCACCTCAGCAAAATG
GAGCTCCAGGTATTGCCAAGGTCAAGGCCAAGTGAAGCATGGCCTAGATAGGCGCCCA
CCTAAGTGCCTCAGGACTGCACCTTAGGGCAGTGTCCGTGAGTCCCTCTCCACCTACAC
CTGTGACCAAGGCTTATGTGGTCAAGACTGAGCAGGGGACTGGCCCTCCCTCCACAG
CTGCTCTACAGGGACCAGGCTTTGGTTCTCACCCACTTCCCCCGGGCAGCTCCAGGGA
TGTGGCCTCATTGCTGTCTGCCACTCCAGAGCTGGGGGCTAAAAGGGCTGTACAGTTATT
TCCCCCTCCCTGCCTTAAAAGTGGGAGAGGAGCACTCAGGGCTGGCCCCACAAAGGGTC
TCGTGGCCTTTTTCTCACACAGAAGAGGTGAGCAATAATGTCAGTGTGGACCCAGTCTC
ACTCTCCACCCACACACTGAAGCAGTAGCTTCTGGCCAAAGGTGAGGGTGGGCGGGG
GCCTGGGAATACAGCCTGTGGAGGCTGCTTACTCAACTTGTGTCTTAATTAAGTGA
GAGGAAACCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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Restriction Sites:	Please inquire
ACCN:	NM_022821
Insert Size:	840 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).
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:	<ol style="list-style-type: none">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:	<u>NM_022821.2</u> , <u>NP_073732.1</u>
RefSeq Size:	1501 bp
RefSeq ORF:	840 bp
Locus ID:	64834
UniProt ID:	<u>Q9BW60</u>
Cytogenetics:	1p34.2
Domains:	ELO
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 (1) encodes the longest protein (isoform 1). Variants 1 and 2 encode the same protein.