

Product datasheet for **MC226748**

Elov1 (NM_001039176) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Elov1 (NM_001039176) Mouse Untagged Clone
Tag: Tag Free
Symbol: Elov1
Synonyms: AA407424; BB151133; Ssc1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226748 representing NM_001039176
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGCTGTTGTGAACCTGTACCACGAGCTGATGAAGCATGCGGATCCCCGGATCCAAAGCTACCTC
 TGATGGGGTCCCCCTTGCTAATAACATCCATCCTTCTGACCTATGTGTACTTCATCTATCGCTTGGCC
 TCGAATCATGGCTAATCGGAAGCCCTTCCAACCTCGAGGCTTCATGATTGTCTACAATTTCTCACTGGT
 ATACTCTCCCTACATTGTCTATGAGTTTCTGATGTCTGGTTGGCTGAGTACCTACACCTGGCGCTGTG
 ACCCCATAGACTTTTCCAATAGCCCTGAAGCACTTCGGATGGTTCGAGTGGCCTGGCTCTTCATGCTTTC
 CAAGGTCATTGAGCTGATGGACACAGTGATATTTATCCTCCGGAAGAAGGACGGGCAAGTGACCTTCCTC
 CATGTCTTCCACCACTCGGTGCTTCCCTGGAGTTGGTGGTGGGGGATAAAAAATTGCTCCAGGAGGAATGG
 GCTCCTTCCATGCCATGATAAACTCCTCTGTACATGTCGTATGTACCTACTATGGATTGTCTGCCCT
 TGGCCCTGTGGCCAGCCCTACCTTTGGTGAAGAAACATATGACTGCCATTGAGCTGATCCAGTTTGTG
 CTGGTCTCACTGCACATCAGCAATACTACTTTCATGCCCAGCTGCAACTACCAGTACCCCATCATATCC
 ACCTCATCTGGATGATGGCACCATCTTCTTCACTGTTCTCCAATTTCTGGTATCACTTTACACCAA
 GGGGAAGCGGCTGCCCGTGCAGTTCAGCAAAAATGGAGCTCCAGCTACCACCAAGGTCAAGGCCAACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001039176
Insert Size: 840 bp



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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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001039176.2</u> , <u>NP_001034265.1</u>
RefSeq Size:	1833 bp
RefSeq ORF:	840 bp
Locus ID:	54325
UniProt ID:	<u>Q9JLJ5</u>
Cytogenetics:	4 D2.1
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 encode the same isoform (1).</p>