

## Product datasheet for MC212315

### Elov16 (NM\_130450) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Elov16 (NM\_130450) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Elov16  
**Synonyms:** C77826; FAE; LCE  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC212315 representing NM\_130450  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAACATGTCTAGTGTGACTTTACAAGAATATGAATTCGAAAAGCAGTTCAACGAGAACGAAGCCATCC  
 AATGGATGCAGGAAAACCTGGAAGAAGTCTTTCTGTTTTCTGCGCTGTACGCTGCCTTTATCTTTGGTGG  
 TCGGCATCTGATGAACAAGCGAGCCAAGTTTGAAGTTCGGAAGCCGCTCGTGCTCTGGTCTGACTCTT  
 GCCGCTTCAGTATATTCGGTGTCTTCGAACTGGTGCTTACATGCTGTACATTCTGATGACCAAAGGCC  
 TGAAGCAGTCAGTTTGTGACCAGAGTTTTTACAATGGACCTGTCAGCAAATTCGGGCTTATGCATTTGT  
 GCTCAGCAAAGCACCCGAAGTAGGTGACACGATATTCATCATTCTGAGGAAACAGAACTGATCTTCCTG  
 CACTGGTACCACCACATCACTGTGCTCCTGACTCCTGGTACTCCTACAAAGACATGGTCGCTGGGGTG  
 GTTGGTTCATGACTATGAACTATGGCGTGCATGCCGTATGACTCTTACTACGCCTTGGGGCTGCGGG  
 TTTCCGAGTCTCCCGAAGTTTGCCATGTTTCATCACCTTGCCAGATCACTCAGATGCTGATGGGCTGT  
 GTCATTAACCTGCTTCACTGGATGCAGCATGACAACGACCAGTGCTACTCCACTTTTCAAGACA  
 TCTTCTGGTCTCGCTCATGTACCTCAGTACCTGTGCTCTTCTGCCATTTCTTCTTTGAGGCCTACAT  
 CGGCAAAGTGAAGAAAGCCACGAAGGCTGAG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_130450  
**Insert Size:** 804 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_130450.2</a> , <a href="#">NP_569717.1</a>
<b>RefSeq Size:</b>	5951 bp
<b>RefSeq ORF:</b>	804 bp
<b>Locus ID:</b>	170439
<b>UniProt ID:</b>	<a href="#">Q920L5</a>
<b>Cytogenetics:</b>	3 G3
<b>Gene Summary:</b>	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 elongates fatty acids with 12, 14 and 16 carbons with higher activity toward C16:0 acyl-CoAs. Catalyzes the synthesis of unsaturated C16 long chain fatty acids and, to a lesser extent, C18:0 and those with low desaturation degree. May participate in the production of saturated and monounsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators.[UniProtKB/Swiss-Prot Function]