

## Product datasheet for **MC207505**

### Elov12 (NM\_019423) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Elov12 (NM_019423) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Elov12
Synonyms:	AI317360; Ssc2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC207505 representing NM_019423 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGGAGCAGCTGAAGGCCTTTGATAATGAAGTCAATGCTTTCTGGACAACATGTTGGACCACGAGATT  
CTCGAGTTCGCGGGTGGTTCCTGCTGGACTCTACCTCCACCTTCATCCTCACCATCAGTACCTGCT  
CTCGATATGGCTGGGTAACAAGTACATGAAGAACAGGCCTGCTGTCTCTCAGGGGCATCCTCACCTTG  
TATAACCTCGCAATCACACTTCTTTCTGCGTATATGCTGGTGGAGCTCATCCTCTCCAGCTGGGAAGGAG  
GTTACAACCTGTCAGTGTGAGAATCTCGACAGTGCAGGAGAAGGTGATGTCCGGGTAGCCAAGGTCTTGTG  
GTGGTACTACTTCTCAAAGTGGAGTTCCTGGACACGATTTCTTTGTTCTACGAAAAAGACCAAT  
CAGATCACCTTCTTATGTCTATCACCACGCGTCCATGTTCAACATCTGGTGGTGTGTTTTGAAGTGA  
TACCTTGTGGTCAAAGCTTCTTTGGACCCACCTGAACAGCTTTATCCACATTCTCATGTACTCCTACTA  
CGGCCTGTCTGTGTTCCCGTCCATGCACAAGTACCTTTGGTGAAGAAGTACCTCACACAGGCTCAGCTG  
GTGCAGTTCGTAATCACCATCACGCACACGCTGAGTGCCGTGGTGAAGCCCTGTGGCTTCCCTTTGGCT  
GTCTCATCTCCAGTCTTCTATATGATGACGCTGGTCATCCTGTTCTTAACTTCTATATTCAGACATA  
CCGGAAAAAGCCAGTGAAGAAAGAGCTGCAAGAGAAAGTGAAGAATGGTTTCCCAAAGCCCACTTA  
ATTGTGGCTAATGGCATGACGGACAAGAAGGCTCAATAA

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-RsrII
ACCN:	NM_019423
Insert Size:	879 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_019423.2</a> , <a href="#">NP_062296.1</a>
<b>RefSeq Size:</b>	3837 bp
<b>RefSeq ORF:</b>	879 bp
<b>Locus ID:</b>	54326
<b>UniProt ID:</b>	<a href="#">Q9JLJ4</a>
<b>Cytogenetics:</b>	13 A3.3
<b>Gene Summary:</b>	<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 catalyzes the synthesis of polyunsaturated very long chain fatty acid (C20- and C22-PUFA), acting specifically toward polyunsaturated acyl-CoA with the higher activity toward C20:4(n-6) acyl-CoA. May participate in the production of polyunsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. Essential for the formation of C24:5(n-6) up to C30:5(n-6) PUFAs in testis, these fatty acids being indispensable for normal spermatogenesis and fertility.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>