

## Product datasheet for **MC206393**

### Elov15 (BC022911) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Elov15 (BC022911) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Elov15
Synonyms:	1110059L23Rik; AI747313; AU043003; HELO1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC022911  
 CGCTTGCACATCCTCCTGCTCGCGCGGTCTGCTGCCGTCCGGTCTCCCGTAGCCGCTCAGGCAGAGA  
 GGTTTTAAATGGAACATTTTCGATGCGTCACTCAGTACCTATTTCAAGGCCTTCTGGGCCCCGAGATA  
 CAAGAGTCAAAGGATGGTTCTCCTGGACAATTACATCCCTACGTTTGTCTGTTCTGTTATTTACTTACT  
 CATTGTATGGCTGGGACCAAAATACATGAAGAACCAGCCGTTCTCTTGGCAGGCATCCTGCAGTTG  
 TATAACCTTGGACTCACCTGCTGTCTCTACATGTTCTATGAGTTGGTGACAGGTGTGGGAAGGCA  
 AATACAACCTTTTCTGCCAGGGAACACGACGCGGGGAGAATCCGATATGAAGATCATCCGCGTCTCTG  
 GTGGTACTACTTCTCCAAACTCATCGAATTCATGGACACCTTTTTCTTCATCCTTCGAAGAAACAACCAC  
 CAGATCACCGTGCTCCATGTCTACCACCACGCTACCATGCTCAACATCTGGTGGTTTGTGATGAACTGGG  
 TTCCCTGCGGCCATTCATATTTTGGTGCGACTCAACAGCTTCATCCATGCTCCTCATGACTCGTACTA  
 TGGTCTGTCTCCATCCCGTCCATGCGTCCCTACCTCTGGTGGAAAAAGTACATCACTCAAGGCAGCTG  
 GTCCAGTTTGTGCTGACAATCATCCAGACGACCTGCGGGGTCTTCTGGCCATGCTCCTCCCTCTCGGGT  
 GGCTGTTCTTCCAGATTGGATACATGATTTCCCTGATTGCTCTTCCAAAACTTCTACATTCAGACTTA  
 CAACAAGAAAGGGCCTCTCGGAGGAAAGAACCTGAAGGGCCACCAGAACGGGTCTGTGGCCCGCGTC  
 AACGGACACCAACAGCTTCCCTTCCCTGGAAAAACAGCGTGAAGCCAGGAAGCAGCGAAAGGATTGAC  
 AAGCCGAGCCGAAGCCTCCAGACCGCGGTGTGATTGTAAAGCAGCGTACTTGTGCCCTGACGCTCA  
 TAGCAGCTGCTGCTACTAGTCTGGCCCTACTATCTGCAGTGTGACTCATGTAGGACCTTCTTCATCAGTT  
 CAAAACCCCTAGAATATGTATACAGATTATACAAAGTAGGCATACGATTTTCTCACATTTCTGGGCTCTC  
 ATCGACCCCGCGCTAGACTGTGGAAAGGGAATGTTCTTGTAGTATACAACACTGCTGTTGCCTTATTAG  
 TTGTAACACGATAGGTGCTGAATTTGGTTTCAAACTTAACTGTAATCCAACTTTTTTTTTTTAA  
 CTGTAGACCATGCATGTGATTGTAATTTGTACAATGTTGTTAACAGTAGAAAAACACATGCCTTAAG  
 ACTTAAAAAAGCAGGGCCAGAGCTTGTAGTTAATAGGGTATGTTTCACTTTGTATTATTCATTTG  
 TAATAGCTCTGTTTAGAAAAATCAAATGTATGATTTATGAAACAAGTGTGTGATGTGTAACCTCAAGTGA  
 CTTGGAGATGCGAAATCTGATGGCACCTTGGTTTTATAACGATGGCTTTAAATAAGCAGGCTCAAGTCT  
 AGTGGAACAGTCAAGTTAACTTTTTAACAGATCTTATTTTTTTATTTTGTAGTGCCACTATTAATGTGTTT  
 AAAGAGGTGGGAAAGGGTCAAAGCGTCTGGAGACTTACGTACCTGTCCCTGGTCCCCAGAGGCTA  
 GGGTGACTATAAGAGTAGGTCACTTTTCACTTCTGAAGTGCTTAGTGTTTTTATACAGGAGATAAAAGG  
 CCATTCGACTTCCCACCCTGGAGAGAGAGAACTACCTTTCAGGAAAGGTGACGAGACATTTATTATCT  
 GACAGACACACACACACACACAGTGATAAGGGACTGGTTACCTGGTCCACATTTTTTTTTTATTCT  
 TTTCTGTAGTGTACTTTGACATACACTTCTTTTAAAAATGTGCCTAATTTACCAAGAGACCAGGAAGCA  
 CCATAAGCATTTTGAAGTAAAATTTAAGAGCTGGAGCGCGCAGGAACTGGGTGTTTGGGAGCAACCCTT  
 TTTTCAGTGTGAATCATGGTGGCATCTGTAAATTTTTTCTGATTAGCACCTAAAGATCGGTTTAAAGTGC  
 TTGGACTGCTTATCCTAAATCGTGTCTAGTGGCTCGAGGCATCGGTATACAAATGGGACTCTTTTC  
 ATGTGTGCATTTTTAAAGTGTGAAAGCTTAGCCTTTGAATACCTTCTGCATTGGTAAAAATCCATGG  
 AACCACTCATGGCACATCTTAGGAGATGATTGACAATGTATAAATAATTGTGGGTTTGATATTTATGTA  
 AATACCAGTTTACCATGCTTTAATTTTGCACATTCATATTACAAGGAGCCAGTTGGTCTAATTAGCCTT  
 GTGGGTTTTCTGTTTGAAGGAGTTGCGGCATCTGTTTACATTTCCCTTGTGAGTCTAGAATGTGTGTA  
 TGTGTGTGCTTCTCCCTAGGTACCCGCTGTCAGGTGCTTTACATATCTCAATACAAAAATTATAACAT  
 TTGATAGTGTGCTGTCAAAGTGTCTTAGCTCATCTGGATATACCCACACTGTAAATAATGTCTAAACA  
 TTAATCATTAACCTTTTTGATTACCAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** BC022911  
**Insert Size:** 900 bp

**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](mailto: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:** [BC022911](#), [AAH22911](#)

**RefSeq Size:** 2702 bp

**RefSeq ORF:** 900 bp

**Locus ID:** 68801

**Cytogenetics:** 9 E1

**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 acts specifically toward polyunsaturated acyl-CoA with the higher activity toward C18:3(n-6) acyl-CoA. May participate in the production of monounsaturated and of polyunsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators (By similarity). In conditions where the essential linoleic and alpha linoleic fatty acids are lacking it is also involved in the synthesis of Mead acid from oleic acid (PubMed:24184513).  
[UniProtKB/Swiss-Prot Function]