

## Product datasheet for **MC206282**

### **Elov14 (BC037030) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Elov14 (BC037030) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Elov14
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >BC037030  
 CCACGCGTCCGGGGCGCTCGTGGCTGGTCTCCTCCTCCTCCGCCCTCCGGCTTCTTGCTCTGCTGTTCC  
 GCCGCTGCTCTCCGCCTGCATCCCCAGTCGCGGCGCCTGGAGGAGGAGGAGACGCCGCTGCCAGCAGGGT  
 TCCCGCCGAGTCGCCACGGTCCATCGGAGCCTCTTCTCGCCGCTGCTCGTACCTCTCTCGCCAAG  
 ATGGGGCTGCTGGACTCAGAGCCCGCAGCGTCTGAACGCGATGCCACGGCATTCAACGACACCGTGG  
 AGTTCTATCGCTGGACCTGGACCATTGCAGATAAACGTGTAGCAGACTGGCCGCTGATGCAGTCTCCATG  
 GCCAACGATAAGCATAAGCAGCCTCTATCTCCTGTTCTGTTGGCTGGGTCCAAAGTGGATGAAAGACCCG  
 GAGCCGTTCCAAATGCGCTTAGTACTATAATCTATAATTTTGGCATGGTTTTGCTTAACCTTTTCACT  
 TCAGAGAGCTATTCATGGGATCATAACAACGAGGATACAGCTATATTTGCCAGTCAGTGGATTATCTAA  
 TGATGTTAATGAAGTCAGGATAGCTGGCGCCCTGTGGTGGTATTTTGTATCGAAAGGCGTTGAGTATTTG  
 GACACAGTGTTTTTATCCTGAGGAAGAAAAACAACCAAGTCTCCTTCCCTTACGTGTACCACCACTGCA  
 CCATGTTCACTCTGTGGTGGATTGGAATCAAGTGGTGGCTGGAGGCCAAGCGTTTTTCGGGGCCAGAT  
 GAACTCTTTCATCCAGTGCATGTACTCTACTATGGGCTGACTGCGTTCCGCCCTGGATCCAGAAA  
 TATCTTTGGTGAAGCGATACCTGACCATGCTGCAGCTGGTCCAGTTCACGTGACCATCGGACACACAG  
 CACTGTCTCTACACCGACTGCCCTTCCCAAGTGGATGCAGTGGGCTCTGATCGCCTACGCCATCAG  
 CTTTCATCTTCTTCTCAACTTCTACACTCGGACATACAATGAGCCGAAAGCAGTCAAAAAACCGGAAAG  
 ACGGCCACGAATGGTATCTCATCGAACGCGTGAATAAATCAGAGAAAGCGTTAGAAAACCGGAAACCC  
 AGAAAAACGGGAAGCCAAAAGGAGAGTAAATGAACTGGGCTTAACCGGTAGACAGTGAGGAAACTCCT  
 GTGTCATTTTAAAAAGTTCAGGGCAACAGAAGCAGAGGGTCTGGGCTGGGGAGAAAGGCAGATAGGGTC  
 TTTGCCCTCAGACTGAGTAACTTTTCAATATATGGTACCCAGATGTTTTATTTATGAAGTTTTATTT  
 TAAAGTTTTTTTTATTAGCCTTCATGTTGTCCAGACCAAGCAACCCCAATGTGACCTTGGAGCCTCTC  
 TCCTGTTACATCCGCCTGTGCAATGGTGGAAATTTTGCCTATCTTCCATTTACTCTTTCCTCAGTCT  
 GAACCTTACATGATCACAGAAACATAATTTTCATGAAAAAAATTTTTTTTTTCTAAATCACTAGTTTTTC  
 GATTGGTTGCAAATCAGTTACCTGACATTTTCTGTTCCAGAGACAGAACAAGAAAATACAGTTGAATTTG  
 GACCCATTTACTGACCCTTGTGGTCAAACCTTTCCACCTTAGTCCGAATATTCCCTTTTGGATGAATT  
 AAATTTGAAAGCTCTGCAAAATCTGTAGAATCTAGAGGCTGTGAGGACAATGTTGATGTTGTTGTT  
 GATGATGATGATGGTGTGGTGAAGATAAGAAAGAATAACAGTAAATCCTGTCTTGTGACCCATAGGCC  
 ACCACGATTTACGGCACAAATCACTGTGGGAAACAATATATCTCTCTATTTTTTTGTAATGAGGAAGG  
 TAGCCTTTGAATACTCCTATTATTAGCAGAAATGAATTATGAGAATTAAGATTATTGTACGATTGAAACA  
 TGAAGAATCATGTCTTTGTTAGCAACATCTAAGGTAGTCACATTTACATGCACCTAGAATCCGAGGG  
 GGGATGGATTTTTTATCAGGGCTTTCCTTGTGTTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG  
 ACATACACCTACCTCTTCTGTTGAAAGAACATTTAAAATGAAATAAATTTTACTTAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** BC037030

**Insert Size:** 939 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).

**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:** [BC037030](#), [AAH37030](#)

**RefSeq Size:** 2170 bp

**RefSeq ORF:** 939 bp

**Locus ID:** 83603

**Cytogenetics:** 9 E2

**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 catalyzes the synthesis of very long chain saturated (VLC-SFA) and polyunsaturated (PUFA) fatty acids that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. May play a critical role in early brain and skin development.[UniProtKB/Swiss-Prot Function]