

Product datasheet for **RN216234**

Elov17 (NM_001191844) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Elov17 (NM_001191844) Rat Untagged Clone
Tag: Tag Free
Symbol: Elov17
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN216234 representing NM_001191844
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGTTCAGCGATCTTACATCGAGGACTGTGCGTTTTTATGATAATTGGATCAAAGATGCTGATCCAA
GAGTTGAAAACCTGGCTCCTCATGTCTCGCCTCTGCCACAAACCATCATCTGGGGCTCTACGTCTATTT
TGTTACATCTCTGGACCAAAGCTCATGGAGAACCGGAAGCCCTTGAAGTCAAGAAAGCGATGATAACG
TACAATTTTTTTCATAGTACTGTTTTCTGTGTATATGTGCTATGAGTTTGATGTCTGGCTGGGTACAG
GTTATTCGTTTTGATGCGACATTGTGGACTATTCTCAGTCGCAAGAGCAATGAGGATGGTACACACCTG
CTGGCTTTATTACTTCTCCAAATTTATCGAGCTGTTTGACACTATCTTTTTTGTCTGCGCAAGAAAAAT
AGCCAAGTGACTTTCCTTCATGTCTTCCATCACACGATCATGCCATGGACCTGGTGGTTTGGAGTCAAAT
TTGCTGCAGGTGGTTTGGGGACATTCCACGCCCTTTAAATACAGCTGTGCACGTGGTCAATTTCTA
CTATGGACTGTGTGCAATGGGACCAGCCTACCAGAAGTATTTATGGTGGAAAAGCATCTGACCTCTTTG
CAGCTTGTCCAGTTTGTCTTGTCACTGTCCACATAGGACAGATCTTCTCATGGAAGACTGCAATTACC
AGTACCCAGTTTTCTGTATATCATCATGAGCTATGGATGCATCTCCTGCTACTCTTTCTCCACTTTTG
GTACCGTGCTTACACCAAGGGTCAAAGGTTGCCAAAACATATGGAAAACGGGAATTGCAAAAAGCAAGCAC
CACTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001191844
Insert Size: 846 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_001191844.1</u> , <u>NP_001178773.1</u>
RefSeq Size:	1128 bp
RefSeq ORF:	846 bp
Locus ID:	361895
UniProt ID:	<u>D4ADY9</u>
Cytogenetics:	2q14
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 with higher activity toward C18 acyl-CoAs, especially C18:3(n-3) acyl-CoAs and C18:3(n-6)-CoAs. Also active toward C20:4-, C18:0-, C18:1-, C18:2- and C16:0-CoAs, and weakly toward C20:0-CoA. Little or no activity toward C22:0-, C24:0-, or C26:0-CoAs. May participate in the production of saturated and polyunsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators.[UniProtKB/Swiss-Prot Function]