

Product datasheet for **MR225811**

Elov14 (NM_148941) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elov14 (NM_148941) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elov14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225811 representing NM_148941 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTGCTGGACTCAGAGCCCGGCAGCGTCTGAACGCGATGTCCACGGCATTCAACGACACCGTGG
AGTTCTATCGCTGGACCTGGACCATTGCAGATAAACGTGTAGCAGACTGGCCGCTGATGCAGTCTCCATG
GCCAACGATAAGCATAAGCAGCCTCTATCTCCTGTTCTGTGGCTGGGTCCAAAGTGGATGAAAGACCGC
GAGCCGTTCCAAATGCGCTTAGTACTCATAATCTATAATTTTGGCATGGTTTTGCTTAACCTTTTCATCT
TCAGAGAGCTATTTCATGGGATCATAACAACGCAGGATACAGTATATTTGCCAGTCAGTGGATTATTTCTAA
TGATGTTAATGAAGTCAGGATAGCTGGCGCCCTGTGGTGGTATTTTGTATCGAAAAGCGTTGAGTATTTG
GACACAGTGTTTTTATCCTGAGGAAGAAAAACAACCAAGTCTCCTTCCTTCACGTGTACCACCACTGCA
CCATGTTCACTCTGTGGTGGATTGGAATCAAGTGGGTGGCTGGAGGCCAAGCGTTTTTCGGGGCCAGAT
GAACTCTTTCATCCACGTGATCATGTACTCCTACTATGGGCTGACTGCGTTCGGCCCTGGATCCAGAAA
TATCTTTGGTGAAGCGATACCTGACCATGCTGCAGCTGGTCCAGTTCACGTGACCATCGGACACACAG
CACTGTCTCTACACCGACTGCCCTTCCCAAGTGGATGCACTGGGCTCTGATCGCCTACGCCATCAG
CTTCATCTTCTCTCAACTTCTACACTCGGACATAACAATGAGCCGAAGCAGTCAAAAACGGAAAAG
ACGGCCACGAATGGTATCTCATGAACGGCGTGAATAAATCAGAGAAAGCGTTAGAAAACGGAAAACCC
AGAAAAACGGGAAGCCAAAAGGAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225811 representing NM_148941
Red=Cloning site Green=Tags(s)

MGLLDSEPGSVLNAMSTAFNDTVEFYRWTWIADKRVADWPLMQSPWPTISISTLYLLFVWLGPKWMKDR
 EPFQMRLVLIYNFGMVLLNLFIFRELFMGSYNAGYSYICQSDVYSNDVNEVRIAGALWVYFVSKGVEYL
 DTVFFILRKKNNQVSFLHVVHCTMFTLWWIGIKWVAGGQAFFGAQMNSFIHVIMYSYYGLTAFGPWIQK
 YLWVKRYLTMLQLVQFHVTIGHTALSLYTDPCFPKMMHWALIAAIAISFIFLFLNFYTRTYNEPKQSKTGK
 TATNGISSGVNKSEKALENGKPKQKNGKPKGE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9030_g06.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_148941

ORF Size: 936 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_148941.2](#), [NP_683743.2](#)

RefSeq Size: 3071 bp

RefSeq ORF: 939 bp

Locus ID: 83603

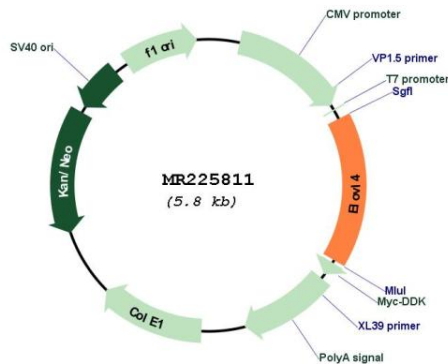
UniProt ID: [Q9EQC4](#)

Cytogenetics: 9 E2

MW: 37 kDa

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]

Product images:



Circular map for MR225811