

Product datasheet for MR217050

Elov17 (NM_029001) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elov17 (NM_029001) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elov17
Synonyms:	9130013K24Rik; AI840082
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217050 representing NM_029001 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGTTCAGTGATCTTACATCGAGGACTGTGCGTTTTATGATAATTGGATCAAAGATGCTGATCCGA
GAGTTGAAGACTATCTCCTCATGTCCTCGCCTCTGCCACAAACCATCATCCTGGGCTCTATGTCTATTT
TGTTACGTCTCTGGACCAAAGCTCATGGAGAACCGGAAGCCCTTTGAACTCAAGAAAGCGATGATAACG
TACAATTTTTTCATAGTACTGTTTTCTGTGTATATGTGTTATGAGTTTGATGTCTGGCTGGGGTACAG
GTTACTCGTTTCGATGTGACATTGTTGACTATTCTCAGTCGCAAGAGCAATGAGGATGGTGCACACCTG
CTGGCTTTATTACTTCTCAAATTCATCGAGCTGTAGACTATCTTTTTTTGTTCTGCGTAAGAAAAAC
AGCCAAGTGACTTTCCTTCATGTCTTCCATCATACGATCATGCCGTGGACCTGGTGGTTTTGGAGTCAAAT
TTGCTGCAGGTGGTCTGGGAACATTCCATGCCTTTTTAAATACAGCTGTGCACGTGGTCAATGATTTCTTA
CTATGGGTTATGTGCAATGGGACCAGCCTACCAGAAGTATTTATGGTGGAAAAACATTTGACATCTTTG
CAGCTTGCCAGTTTGTCTTGTCACTATCCACATAGGCCAGATCTTCTCATGGAGGACTGCAATTACC
AGTACCCAGTTTTTCTGTATATCATCATGAGTTACGGATGCATCTTCTGCTGCTTTTCCACTTTTG
GTACCGTGCTTACACCAAGGGTCAGAGGTTGCCAAAACCTAGAAAATGGAAATTGCAAAGCAAGCCG
CAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217050 representing NM_029001
 Red=Cloning site Green=Tags(s)

MAFSDLTSRTVRFYDNWIKDADPRVEDYLLMSSPLPQTIILGLVYFVTSLGPKLMENRKPFLKAMIT
 YNFFIVLFSVYMCYEFVMSGWGTGYSFRCDIVDYSQSPRAMRMVHTCWL YYFSKFIELLDTIFFVLRKKN
 SQYTFLLHVFHHTIMPWTWWFGVKFAAGGLGTFHAF LN TAVHVVMSYYGLCAMGPAYQKYLWKKHLTSL
 QLVQFVLVTIHIHQIIFMEDCNQYPVFLYIIMSYGCI FLLLFLHFWYRAYTKGQRLPKTLENGNCKSKR
 H

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_029001

ORF Size: 843 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_029001.5](#), [NP_083277.3](#)

RefSeq Size: 5453 bp

RefSeq ORF: 846 bp

Locus ID: 74559

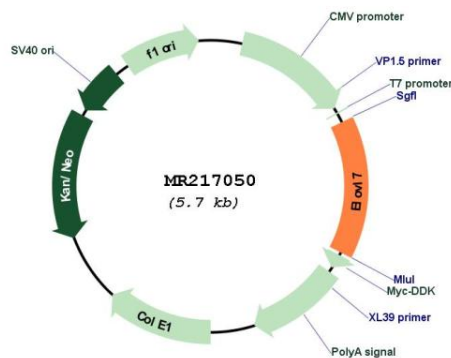
UniProt ID: [Q9D2Y9](#)

Cytogenetics: 13 D2.1

MW: 33.9 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 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]

Product images:



Circular map for MR217050