

Product datasheet for **MR203544**

Elovl6 (NM_130450) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elovl6 (NM_130450) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elovl6
Synonyms:	C77826; FAE; LCE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203544 representing NM_130450 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAACATGTCAGTGTTGACTTTACAAGAATATGAATTCGAAAAGCAGTTCAACGAGAACGAAGCCATCC
AATGGATGCAGGAAAACCTGGAAGAAGTCTTTCCTGTTTTCTGCGCTGTACGCTGCCTTTATCTTTGGTGG
TCGGCATCTGATGAACAAGCGAGCCAAGTTTGAACCTCGGAAGCCGCTCGTGCTCTGGTCGCTGACTCTT
GCCGTCTTCAGTATATTCGGTGTCTTTCGAACCTGGTGCTTACATGCTGTACATTCTGATGACCAAAGGCC
TGAAGCAGTCAGTTTGTGACCAGAGTTTTTACAATGGACCTGTCAGCAAATCTGGGCTTATGCATTTGT
GCTCAGCAAAGCACCCGAACCTAGGTGACACGATATTCATCATTCTGAGGAAACAGAACTGATCTTCCTG
CACTGGTACCACCACATCACTGTGCTCCTGTAATCCTGTAATCCTACTCAAAAGACATGGTCGCTGGGGGTG
GTTGGTTCATGACTATGAACTATGGCGTGCATGCCGTCACTGTAATCTACTACGCCTTGGCGGCTGCGGG
TTTCCGAGTCTCCCGAAGTTTGCCATGTTTCATCACCTTGTCCAGATCACTCAGATGCTGATGGGCTGT
GTCATTAACCTGGTCTTCAACTGGATGCAGCATGACAACGACCAGTGCTACTCCACTTTTCAAGACA
TCTTCTGGTCTCGTCACTGTACCTCAGCTACCTGTGCTCTTCTGCCATTTCTTCTTTGAGGCCTACAT
CGGCAAAGTGAAGAAAGCCACGAAGGCTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203544 representing NM_130450
Red=Cloning site Green=Tags(s)

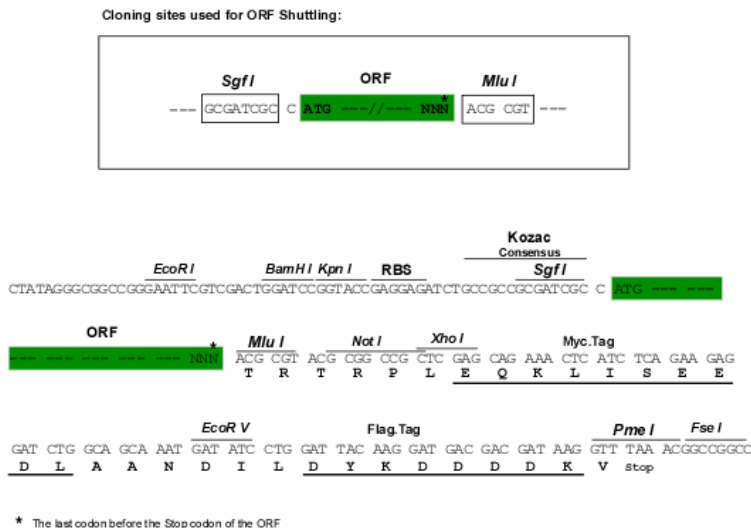
MNMSVLTLQEYEFKQFNENEAIQWMQENWKKSFLFSALYAAFIFGGRHLMNKRAKFELRKPLVLSLTL
 AVFSIFGALRTGAYMLYLMTKGLKQSVCDQSFYNGPVSKEFWAYAVLSKAPELGDITIFILRKQKLIPL
 HWYHHITVLLYSWYSYKDMVAGGWFMTMNYGVHVMYSYALRAAGFRVSRKFAMFITLSQITQMLMGC
 VINYL VFNWMQHDNDQCYSHFQNIWFSSLMYLSYLVLFCHFFFEAYIGKVKKATKAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9024_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130450

ORF Size: 801 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_130450.2](#), [NP_569717.1](#)

RefSeq Size: 5951 bp

RefSeq ORF: 804 bp

Locus ID: 170439

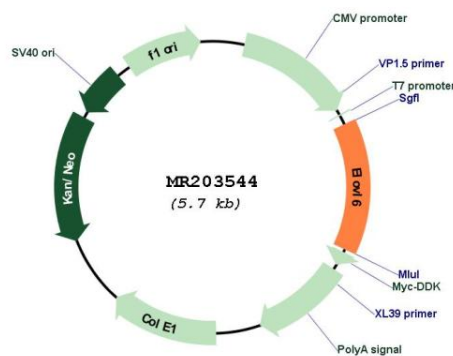
UniProt ID: [Q920L5](#)

Cytogenetics: 3 G3

MW: 32.1 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 elongates fatty acids with 12, 14 and 16 carbons with higher activity toward C16:0 acyl-CoAs. Catalyzes the synthesis of unsaturated C16 long chain fatty acids and, to a lesser extent, C18:0 and those with low desaturation degree. May participate in the production of saturated and monounsaturated 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 MR203544