

## **Product datasheet for RR206070**

## Elovi2 (NM 001109118) Rat Tagged ORF Clone

Elovl2

## **Product data:**

**Product Type: Expression Plasmids** 

**Product Name:** Elovl2 (NM\_001109118) Rat Tagged ORF Clone

Tag: Myc-DDK Symbol:

**Mammalian Cell** Neomycin

Selection:

pCMV6-Entry (PS100001) Vector:

E. coli Selection: Kanamycin (25 ug/mL)

>RR206070 representing NM\_001109118 **ORF Nucleotide** Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

> TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC **GCCGCGATCGCC**

> ATGTTTGGACCACGGGATTCTCGAGTTCGAGGGTGGTTCCTGCACCTCTACCTCCCCACCTTCACCC TCACCATCGTGTATCTGCTCTCAATATGGCTGGGTAACAAGTACATGAAGAACAGGCCTGCTCTTTCTCT CTCTCCAGCTGGGAAGGAGGCTACAACTTGCAGTGTCAGAATCTGGACAGCGCAGGAGAAGGCGATATCC GGGTAGCCAAGGTCTTGTGGTGGTACTACTTCTCCAAACTGGTGGAGTTCCTGGACACGATCTTCTTTGT TCTTCGGAAAAAGACCAGTCAGATCACCTTCCTTCATGTCTATCACCATGCGTCCATGTTTAACATCTGG TGGTGTGTTTTGAACTGGATACCTTGTGGTCAAAGCTTCTTCGGACCAACCCTGAACAGCTTTATCCACA TCCTCATGTACTCCTACTACGGGCTGTCTGTGTTCCCGTCCATGCACAGGTACCTTTGGTGGAAGAAATA CCTCACGCAGGCCCAGCTGGTACAGTTTGTACTGACCATCACGCACACGCTGAGTGCCGTGGTGAAGCCC TGTGGCTTCCCCTTTGGCTGTCTCCTCCAGTCTTCCTACATGATGACACTGGTTATCCTGTTCTTAA ACTTCTATATTCAGACATACCGAAAAAAGCCAATGAAGAAGGAGGTGCCAGAAGGAGCCGCAGGGAAAGA

> **ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

AGTGAAGAATGGTTTCCCCAAAGCCCACTCCATCGCAGCTAATGGCGTGACGGACAAGAAGGTGCAA



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Protein Sequence: >RR206070 representing NM\_001109118

Red=Cloning site Green=Tags(s)

MFGPRDSRVRGWFLLDSYLPTFTLTIVYLLSIWLGNKYMKNRPALSLRGILTLYNLGITLLSAYMLVELV LSSWEGGYNLQCQNLDSAGEGDIRVAKVLWWYYFSKLVEFLDTIFFVLRKKTSQITFLHVYHHASMFNIW WCVLNWIPCGQSFFGPTLNSFIHILMYSYYGLSVFPSMHRYLWWKKYLTQAQLVQFVLTITHTLSAVVKP CGFPFGCLIFQSSYMMTLVILFLNFYIQTYRKKPMKKEMPEGAAGKEVKNGFPKAHSIAANGVTDKKVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 



CTATAGGGCGGCCGC	EcoRI GGAATTOGTOGA	BamHIK			Kozac Consensu Sg	fl	TG	-
ORF		Miu i cg cgt ac t r t	Not I G CGG CCG R P	Xhol CTC GAG L E	CAG AAA Q K	Myc.Tag CTC ATC L I	TCA GAA	GAG E
GAT CTG GCA GC. D L A A	A AAT GAT AT	C CTG GAT	Flag.Ta TAC AAG Y K	eg GAT GAC ( D D	GAC GAT . D D	AAG GTT		-se I coagac

<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM 001109118

ORF Size: 837 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:customercom">customercom</a> or by

calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.



MW:

**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:** <u>NM 001109118.1</u>, <u>NP 001102588.1</u>

32.4 kDa

RefSeq Size:3731 bpRefSeq ORF:840 bpLocus ID:498728UniProt ID:D4A612Cytogenetics:17p14

**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 polyunsaturated very long chain fatty acid (C20- and C22-PUFA), acting specifically toward polyunsaturated acyl-CoA with the

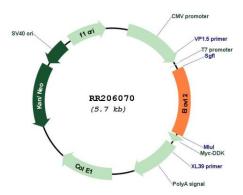
higher activity toward C20:4(n-6) acyl-CoA. May participate in the production of

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 RR206070