

Product datasheet for **RC225358**

ELOVL6 (NM_001130721) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELOVL6 (NM_001130721) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ELOVL6
Synonyms:	FACE; FAE; LCE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC225358 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACATGTCAGTGTTGACTTTACAAGAATATGAATTCGAAAAGCAGTTCAACGAGAATGAAGCCATCC
AATGGATGCAGGAAAACCTGGAAGAAATCTTCTGTTTCTGCTCTGTATGCTGCCTTTATATTCGGTGG
TCGGCACCTAATGAATAAACGAGCAAAGTTTGAAGTGGGAAGCCATTAGTCTCTGGTCTCTGACCCTT
GCAGTCTTCAGTATATTCGGTCTCTTCAACTGGTCTTATATGGTGTACATTTTGATGACCAAAGGCC
TGAAGCAGTCAGTTGTGACCAGGGTTTTACAATGGACCTGTCAGCAAATCTGGGCTTATGCATTTGT
GCTAAGCAAAGCACCCGAAGTACAGGATACAATATTCATTATTCTGAGGAAGCAGAAGCTGATCTTCCTG
CACTGGTATCACCATCACTGTCTCCTGACTCTTGGTACTCTACAAGACATGGTTGCCGGGGGAG
GTTGGTTCATGACTATGAACTATGGCGTGCACGCCGTGATGACTCTTACTATGCCTTGCCGGCGGCAGG
TTCCGAGTCTCCCGAAGTTTGCCATGTTTCATCACCTTGTCCAGATCACTCAGATGCTGATGGCTGT
GTGGTAACTACCTGGTCTTCTGCTGGATGCAGCATGACCAGTGTCACTCTCACTTTCAGAACATCTTCT
GGTCTCACTCATGTACCTCAGTACCTTGTGCTCTTCTGCCATTTCTTCTTTGAGGCCTACATCGGCAA
AATGAGGAAAACAACGAAAGCTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225358 protein sequence
 Red=Cloning site Green=Tags(s)

MNMSVLTLQEYEFKQFNENEAIQWMQENWKSFLFSALYAAFIFGGRHLMNKRAKFKELRPLVLSLTL
 AVFSIFGALRTGAYMVIILMTKGLKQSVCDQGFYNGPVSKEWAYAFVLSKAPELGDTIFILRKQKLIPL
 HWYHHITVLLYSWYSYKDMVAGGGWFMNMYGVHVMYSYALRAAGFRVSRKFAMFITLSQITQMLMGC
 VVNYLVFCWMQHDQCHSHFQNIWFSSLMYLSYLVLFCHEFFFEAYIGKMRKTTKAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6705_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001130721

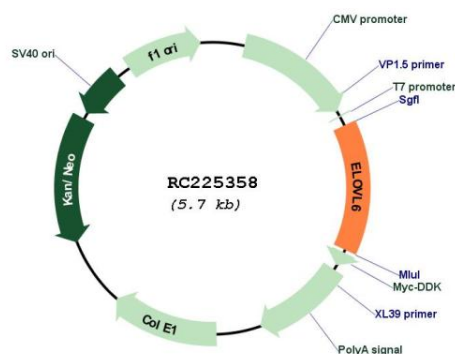
ORF Size: 795 bp

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 custsupport@origene.com 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. [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:	<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_001130721.2</u>
RefSeq Size:	3189 bp
RefSeq ORF:	798 bp
Locus ID:	79071
UniProt ID:	<u>Q9H5J4</u>
Cytogenetics:	4q25
Protein Families:	Transmembrane
Protein Pathways:	Biosynthesis of unsaturated fatty acids
MW:	31.4 kDa
Gene Summary:	Fatty acid elongases (EC 6.2.1.3), such as ELOVL6, use malonyl-CoA as a 2-carbon donor in the first and rate-limiting step of fatty acid elongation (Moon et al., 2001 [PubMed 11567032]). [supplied by OMIM, Mar 2008]

Product images:


Circular map for RC225358