

Product datasheet for SC111410

ELOVL6 (NM_024090) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELOVL6 (NM_024090) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELOVL6
Synonyms:	FACE; FAE; LCE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC111410 representing NM_024090. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGAACATGTCAGTGTGACTTTACAAGAATATGAATTCGAAAAGCAGTCAACGAGAATGAAGCCATC
CAATGGATGCAGGAAAAGTGAAGAAATCTTTCTGTTTTCTGCTCTGTATGCTGCCTTTATATTCGGT
GGTCGGCACCTAATGAATAAACGAGCAAAGTTGAACTGAGGAAGCCATTAGTGCCTGGTCTCTGACC
CTTGCAGTCTTCAGTATATTCGGTGCTCTCGAACTGGTGCTTATGGTGTACATTTTGATGACCAAA
GGCCTGAAGCAGTCAGTTTGTGACCAGGGTTTTACAATGGACCTGTAGCAAATTCGGGCTTATGCA
TTTGTGCTAAGCAAAGCACCCGAACTAGGAGATACAATATTCATTATTCTGAGGAAGCAGAAGCTGATC
TTCTGCACTGGTATCACCACATCACTGTGCTCCTGTACTCTTGGTACTCTACAAAGACATGGTTGCC
GGGGGAGGTTGGTTCATGACTATGAACTATGGCGTGCACGCCGTGATGTACTCTTACTATGCCTTGCGG
GCGGCAGGTTCCGAGTCTCCCGAAGTTTGCCATGTTTACACCTTGTCCAGATCACTCAGATGCTG
ATGGGCTGTGGTTAACTACCTGGTCTTCTGCTGGATGCAGCATGACCAGTGTCACTCTCACTTTAG
AACATCTTCTGGTCTCACTCATGTACCTCAGTACCTTGTGCTCTTCTGCCATTTCTTTGAGGCC
TACATCGCAAAATGAGGAAAACAACGAAAGCTGAATAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_024090
Insert Size:	798 bp



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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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_024090.2](#)

RefSeq Size: 3392 bp

RefSeq ORF: 798 bp

Locus ID: 79071

UniProt ID: [Q9H5J4](#)

Cytogenetics: 4q25

Domains: ELO

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]

Transcript Variant: This variant (1) represents the longer transcript.