

Product datasheet for **RC236470**

ELOVL7 (NM_001297618) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ELOVL7 (NM_001297618) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ELOVL7
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236470 representing NM_001297618
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTCGGCTGGGGTATAGGTTATTCATTTTCGATGTGACATTGTTGACTATTCACGGTCACCCACAGCTT
TGAGGATGGCAGTACCTGCTGGCTTTTACTTCTCCAATTTATTGAGCTATTAGATACGATCTTTTT
TGTTCTGCGCAAGAAAAATAGCCAAGTGACTTTTCCTTCATGTATTCCATCATACCATCATGCCGTGGACC
TGGTGGTTTTGGAGTCAAATTTGCTGCAGGTGGTTTGGGAACATCCATGCCCTTCTAAATACAGCTGTAC
ATGTAGTCATGTATTCTACTATGGACTTTCTGCATTGGGGCCAGCCTACCAGAAGTATTTGTGGTGGAA
AAAATATTTGACATCATTACAGTTGTCCAGTTTGTATTGTGCGCCATCCACATAAGCCAGTTCTTTTTTC
ATGGAGGATTGCAAGTATCAGTTTCCAGTCTTTGCGTGCATCATTATGAGTTACAGTTTCATGTTTCTGC
TGCTCTTTCTCCATTTTGGTACCGTGCTTACACCAAAGGTCAGAGGTTGCCCAAACACTGTGAAAAATGG
AACTTGCAAAAACAAAGATAAT

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236470 representing NM_001297618
Red=Cloning site Green=Tags(s)

MSGWGIGYSFRCDIVDYSRPTALRMARTCWLYYFSKFIELLDITFFVLRKKNQVTFLLHVFHHTIMPWT
WWFGVKFAAGGLGTFHALLNTAVHVMYSYYGLSALGPAYQKYLWKKYLTSLQLVQFVIVAIHISQFFF
MEDCKYQFPVFACIIMSYSFMFLLLFLHFWRAYTKGQRLPKTVKNGTCKNKDN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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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:	NM_001297618.2
RefSeq Size:	3856 bp
RefSeq ORF:	585 bp
Locus ID:	79993
UniProt ID:	A1L3X0
Cytogenetics:	5q12.1
Protein Families:	Transmembrane
MW:	23.5 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]