

Product datasheet for **RG225384**

ELOVL7 (NM_001104558) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELOVL7 (NM_001104558) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ELOVL7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225384 representing NM_001104558 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTTCAGTGATCTTACATCGAGGACTGTGCATCTTTATGATAATTGGATCAAAGATGCTGATCCAA
GAGTTGAAGATTGGCTCCTCATGTCTCGCCTCTGCCACAACCATCCTCCTAGGATTCTATGTCTATTT
TGTCACCTTCCTGGGACCAAAGCTCATGGAAAAATCGCAAGCCCTTGAAGTCAAGAAAGCAATGATAACG
TACAATTTTTTCATAGTACTCTTTCTGTGTATATGTGTTATGAGTTTGTGATGTCTGGCTGGGTATAG
GTTATTCATTTTCGATGTGACATTTGACTATTCACGGTCACCCACAGCTTTGAGGATGGCACGTACCTG
CTGGCTTTATTACTTCTCAAATTTATTGAGCTATTAGATACGATCTTTTTTGTCTGCGCAAGAAAAAT
AGCCAAGTGACTTTCCTTCATGTATTCCATCATACCATCATGCCGTGGACCTGGTGGTTTGGAGTCAAAT
TTGCTGCAGGTGGTTTGGGAACATTCCATGCCCTTCTAAATACAGCTGTACATGTAGTCATGATTCCCTA
CTATGGACTTTCTGCATTGGGGCCAGCCTACCAGAAGTATTTGGTGGAAAAAATTTTACATCATT
CAGCTTGCCAGTTTGTATTGTCGCCATCCACATAAGCCAGTTCTTTTCATGGAGGATTGCAAGTATC
AGTTTCCAGTCTTTCGTGCATCATTATGAGTTACAGTTTCATGTTTCTGCTGCTCTTTCTCCATTTTTG
GTACCGTGCTTACACCAAAGTTCAGAGGTTGCCAAAACACTGTAAAAATGAACTTGCAAAAACAAAGAT
AAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225384 representing NM_001104558
Red=Cloning site Green=Tags(s)

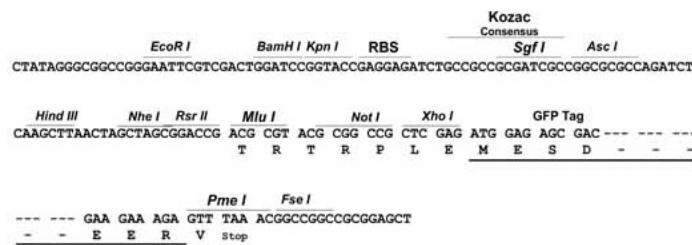
MAFSDLTSRTVHLYDNWIKDADPRVEDWLLMSSPLPQTILLGFYVYFVTSLGPKLMENRKPFLKAMIT
 YNFFIVLFSVYMCYEFVMSGWIGYSFRCDIVDYSRSPALRMARTCWLYYFSKFIELLDTIFFVLRKKN
 SQVTFLHVFHHTIMPWTWWFGVKFAAGGLGTFHALLNTAVHVVMSYYGLSALGPAYQKYLWKKYLTSL
 QLVQFVIVAIHISQFFMEDCKYQFPVACIIMSYSFMFLLLFLHFWYRAYTKGQRLPKTVKNGTCKNKD
 N

TRTRPLE - GFP Tag - V

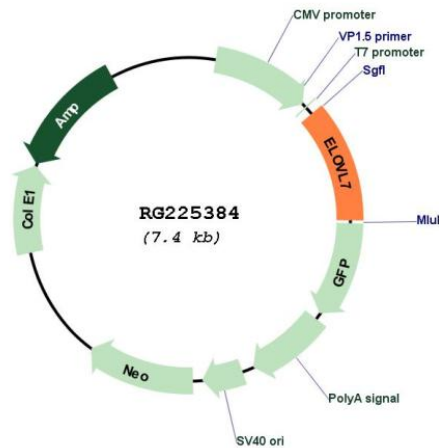
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001104558

ORF Size: 843 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:	<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_001104558.1 , NP_001098028.1
RefSeq Size:	3851 bp
RefSeq ORF:	846 bp
Locus ID:	79993
UniProt ID:	A1L3X0
Cytogenetics:	5q12.1
Protein Families:	Transmembrane
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]