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Product datasheet for RR216234

Elovl7 (NM_001191844) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elovl7 (NM_001191844) Rat 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:	>RR216234 representing NM_001191844 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGTTCAGCGATCTTACATCGAGGACTGTGCGTTTTTATGATAATTGGATCAAAGATGCTGATCCAA GAGTTGAAAACTGGCTCCTCATGTCCTCGCCTCTGCCACAAACCATCATCCTGGGGCTCTACGTCTATTT TGTTACATCTCTGGGACCAAAGCTCATGGAGAACCGGAAGCCCTTTGAACTCAAGAAAGCGATGATAACG TACAATTTTTTCATAGTACTGTTTTCTGTGTATATGTGCTATGAGTTTGTGATGTCTGGCTGGGGTACAG GTTATTCGTTTCGATGCGACATTGTGGACTATTCTCAGTCGCCAAGAGCAATGAGGATGGTACACACCTG CTGGCTTTATTACTTCTCCAAATTTATCGAGCTGTTTGACACTATCTTTTTTGTTCTGCGCAAGAAAAAT AGCCAAGTGACTTTCCTTCATGTCTTCCATCACACGATCATGCCATGGACCTGGTGGTTTGGAGTCAAAT TTGCTGCAGGTGGTTTGGGGACATTCCACGCCCTTTTAAATACAGCTGTGCACGTGGTCATGTATTTCTA CTATGGACTGTGTGCAATGGGACCAGCCTACCAGAAGTATTTATGGTGGAAAAAGCATCTGACCTCTTTG CAGCTTGTCCAGTTTGTTCTTGTCACTGTCCACATAGGACAGATCTTCTTCATGGAAGACTGCAATTACC AGTACCCAGTTTTCCTGTATATCATCATGAGCTATGGATGCATCTTCCTGCTACTCTTTCTCCACTTTTG GTACCGTGCTTACACCAAGGGTCAAAGGTTGCCCAAAACTATGGAAAACGGGAATTGCAAAAGCAAGCAC CAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

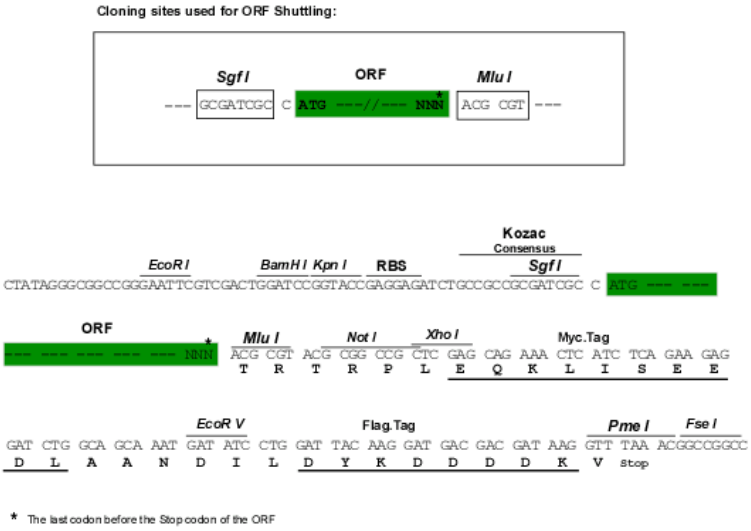
>RR216234 representing NM_001191844
Red=Cloning site Green=Tags(s)

MAFSDLTSRTVRFYDNWIKDADPRVENWLLMSSPLPQTIILGLYVYFVTSLGPKLMENRKPFELKKAMIT
YNFFIVLFSVYMCYEFVMSGWGTGYSFRCDIVDYSQSPRAMRMVHTCWLYYFSKFIELFDTIFFVLRKKN
SQVTFLHVFHHTIMPWTWWFGVKFAAGGLGTFHALLNTAVHVVMYFYYGLCAMGPAYQKYLWWKKHLTSL
QLVQFVLVTVHIGQIFFMEDCNYQYPVFLYIIMSYGCIFLLLFLHFWYRAYTKGQRLPKTMENGNCKSKH
H

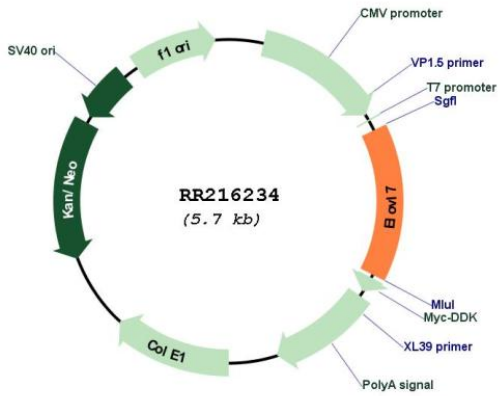
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001191844

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:	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_001191844.1, NP_001178773.1
RefSeq Size:	1128 bp
RefSeq ORF:	846 bp
Locus ID:	361895
UniProt ID:	D4ADY9
Cytogenetics:	2q14
MW:	33.5 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]