

Product datasheet for MC201113

Elov13 (NM_007703) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Elov13 (NM_007703) Mouse Untagged Clone
Tag: Tag Free
Symbol: Elov13
Synonyms: Cig30; CIN-2
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC016468 sequence for NM_007703
GGCTGGTTAGCAGCGCACGTGCCAGGCTCCGGGCCCTTCTGCTTATACACAATTTCTTTCTGTCCTGGG
TTTCTTTCGTCCTTGAGACCCACTCCATCTTCTACTTCTTTGGCTCTCGCCAGCTCCCTACCCCAAGCTC
TGTAACCTCGTCTGCAAAATCGAAATGGACACATCCATGAATTTCTCACGCGGGTTAAAAATGGACCT
GATGCAACCCATGACTTCGAGACGTTTCAGGACTTAAGGCCCTTTTGGAGGAGTACTGGGTAAGCTCA
TTTCTCATAGTGGTCTGTATCTGTTGCTCATCGTTGTTGGCCAGACCTACATGAGAACGCGGAAGAGCT
TCAGCTTGCAAGGCCTCTCATCCTCTGGTCTTCTTCTGGCAATATTCAGTATCCTGGTACTCTGAG
GATGTGGAAGTTTATGGCAACAGTGTGTTACAGTGGGCTCAAGCAAACCGTGTGCTTTGCCATCTAC
ACGGATGACGCCGTAGTCAGATTCTGGTCTTTCTTTCTTCTCAGCAAGGTTGTTGAAGTGGGAGACA
CGGCCTTCATCATCCTGCGTAAGCGTCCACTCATCTTTGTCCACTGGTACCACCACAGCACAGTGTACT
GTTCAACAAGCTTTGGATACAAGAACAAGTGCCTTCGGGTGGCTGTTTCATGACCATGAAGTTCCTGCGT
CATTCTGTGATGACTTACTACACTATGAAGGCTGCCAAACTGAAGCATCCTAATCTTCTCCCATGG
TCATCACCAGCCTGCAGATTCTGCAGATGGTTCTGGGCACCATCTTTGGCATACTGAATTACATCTGGAG
GCAGGAGAAAAGGATGCCACACAACAACGGAACACTTCTTCTGGTCTTTATGCTATATGGGACCTATTTT
ATCCTATTCGCTCACTTCTTCCACCGAGCCTACCTCAGGCCCAAGGGCAAAGTTGCATCCAAGAGCCAAT
GAGAGTAGGAAAGAAAGATGGAGCCTCAGCCGTTCTCCGTGGCACTAAGGGTATGGGAGAAATGATTAGG
GTACCTCCCTGTATGGTTTCCCCATGGGATATGTACCCTCAAAGTTGCAGGAAGCTATGACAACCAAGA
AATGTCACCCCTGGGGATAGGGGGTGTGTGGTTGGTACTTTGATGTTTCTGTCTTTAATGTGAAGGAAA
ACCAAGCCCTAGGAAGGAGATAGGACTGAGGTCCTTAAATGGAGTTATTTATATTTATTTAGAAATC
TTTCTTCTTGCTCTATTTTTAAAAGAGGTCAACATGATCTTGAGGATTTGTGGACTTGAGGGGAGGG
GAGAGTGGACTGACTCTGTGGTAGGAGGAGGCTGACTCTGGGAGTGAGTGATCTGCAGGGGGGAGCCT
GAGGGTGTGTGGAAGGACAGAGGCACACAAACTCAATAAGAATTCTAGGCCTGGTAGGCGCTTAAT
AAATGTCTTTTACAGACAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_007703



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Insert Size:	816 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC016468 , AAH16468
RefSeq Size:	1502 bp
RefSeq ORF:	816 bp
Locus ID:	12686
UniProt ID:	O35949
Cytogenetics:	19 38.75 cM
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 that exhibits activity toward saturated and unsaturated acyl-CoA substrates with higher activity toward C18 acyl-CoAs, especially C18:0 acyl-CoAs. May participate in the production of saturated and monounsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. Participates in the formation of certain VLCFA and triglycerides in certain cells of the hair follicles and the sebaceous glands, required for skin barrier function. Critical enzyme for lipid accumulation and metabolic activity in brown adipocytes during the early phase of the tissue recruitment. Plays a role in lipid storage and in resistance to diet-induced obesity.[UniProtKB/Swiss-Prot Function]