

Product datasheet for **MR204173**

Elov15 (NM_134255) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elov15 (NM_134255) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elov15
Synonyms:	1110059L23Rik; AI747313; AU043003; HELO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204173 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGAACATTTTCGATGCGTCACTCAGTACCTATTTCAAGGCCTTCCTGGGCCCCGAGATACAAGAGTCA
AAGGATGGTTCCTCCTGGACAATTACATCCCTACGTTTGTCTGTTCTGTTATTTACTTACTCATTGTATG
GCTGGGACAAAATACATGAAGAACCGGCAGCCGTTCTCTTGCCGAGGCATCCTGCAGTTGTATAACCTT
GGACTCACCTGCTGTCTCTACATGTTCTATGAGTTGGTGACAGGTGTGTGGGAAGGCAAATACAACCT
TTTTCTGCCAGGGAACACGCAGCGCGGGAATCCGATATGAAGATCATCCGCGTCTCTGGTGGTACTA
CTTCTCCAAACTCATCGAATTCATGGACACCTTTTTCTTCATCCTTCGCAAGAACAACCACCAGATCACC
GTGCTCCATGTCTACCACCACGCTACCATGCTCAACATCTGGTGGTTTGTGATGAACTGGGTTCCCTGCG
GCCATTCATATTTTGGTGCAGACTCAACAGCTTCATCCATGTCCTCATGTAAGTACTGTAATGGTCTGTC
CTCCATCCCGTCCATGCGTCCCTACCTCTGGTGGAAAAAGTACATCACTCAAGGGCAGCTGGTCCAGTTT
GTGCTGACAATCATCCAGACGACCTGCGGGTCTCTGGCCATGCTCCTCCCTCTCGGGTGGCTGTTCT
TCCAGATTGGATACATGATTTCCCTGATTGCTCTCTTCAAAACTTCTACATTAGACTTACAACAAGAA
AGGGCCCTCTCGGAGGAAAGAACACCTGAAGGGCCACCAGAACGGGTCTGTGGCCCGCTCAACGGACAC
ACCAACAGCTTCCCTTCCCTGAAAAACAGCGTGAAGCCAGGAAGCAGCGAAAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204173 protein sequence
 Red=Cloning site Green=Tags(s)

MEHFDASLSTYFKAFLGPRDTRVKGWFLLDNYIPTFVCSVIYLLIVWLGPKYMKNRQPFSCRGILQLYNL
 GLTLLSLYMFYELVTGVWEGKYNFCCQGTRSAGESDMKIIRVLWVYFYSKLIIEFMDTFFFILRKNNHQIT
 VLHVVYHHATMLNIWVFMNWVPCGHSYFGATLNSFIHVLMSYSYGLSSIPSMRPYLWKKYITQGLVQF
 VLTIIQTTCGVFWPCSFPLGWLFFQIGYMISLIALFTNFYIQTYNKKGASRRRKEHLKGHQNGSVAAVNGH
 TNSFPSLENSVKPRKQRKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_134255

ORF Size: 900 bp

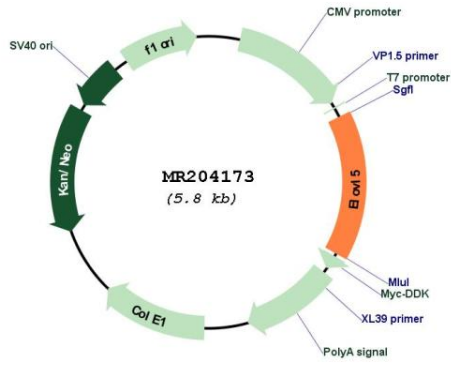
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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_134255.1
RefSeq Size:	2802 bp
RefSeq ORF:	900 bp
Locus ID:	68801
UniProt ID:	Q8BHI7
Cytogenetics:	9 E1
MW:	35.3 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 that acts specifically toward polyunsaturated acyl-CoA with the higher activity toward C18:3(n-6) acyl-CoA. May participate in the production of monounsaturated and of polyunsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators (By similarity). In conditions where the essential linoleic and alpha linoleic fatty acids are lacking it is also involved in the synthesis of Mead acid from oleic acid (PubMed:24184513). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204173