

## Product datasheet for MR202071

### Elov1 (NM\_001039175) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Elov1 (NM\_001039175) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Elov1  
**Synonyms:** AA407424; BB151133; Ssc1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR202071 representing NM\_001039175  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGTTTCTGATGTCTGGTTGGCTGAGTACCTACACCTGGCGCTGTGACCCCATAGACTTTTCCAATA  
 GCCCTGAAGCACTTCGGATGGTTCGAGTGGCTGGCTTTCATGCTTTCCAAGGTCATTGAGCTGATGGA  
 CACAGTGATATTTATCCTCCGGAAGAAGGACGGGCAAGTACCTTCTCCATGTCTCCACCCTCGGTG  
 CTTCCCTGGAGTTGGTGGTGGGGATAAAAATTGCTCCAGGAGGAATGGGCTCCTCCATGCCATGATAA  
 ACTCCTCTGTACATGTCGTACGTACCTACTACTGATTGTCTGCCCTTGGCCCTGTGGCCAGCCCTA  
 CCTTTGGTGAAGAAACATATGACTGCCATTACAGTCCAGTTCAGTTCCTGCTCACTGCACATCAGC  
 CAATACTACTTATGCCAGCTGCAACTACCACTACATCCACCTCATCTGGATGTATGGCA  
 CCATCTTCTTACTGTTCTCCAATTTCTGGTATCACTCTTACACCAAGGGGAAGCGGCTGCCCGTGC  
 AGTTCAGCAAAATGGAGCTCCAGCTACCACCAAGGTCAAGGCCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR202071 representing NM\_001039175  
 Red=Cloning site Green=Tags(s)

MRFLMSGWLSTYWRCDPIDFSNSPEALRMVRVAWLFMLSKVIELMDTVIFILRKKDQVTFLLHVFHHSV  
 LPWSWWWGIKIAPGGMGSFHAMINSSVHVVMYL YYGLSALGPVAQPYLWKKHMTAIQLIQFVLVSLHIS  
 QYYFMPSCNYQYPIIIHLIWMYGTIFFILFSNFYHSYTKGKRLPRAVQQNGAPATTKVKAN

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

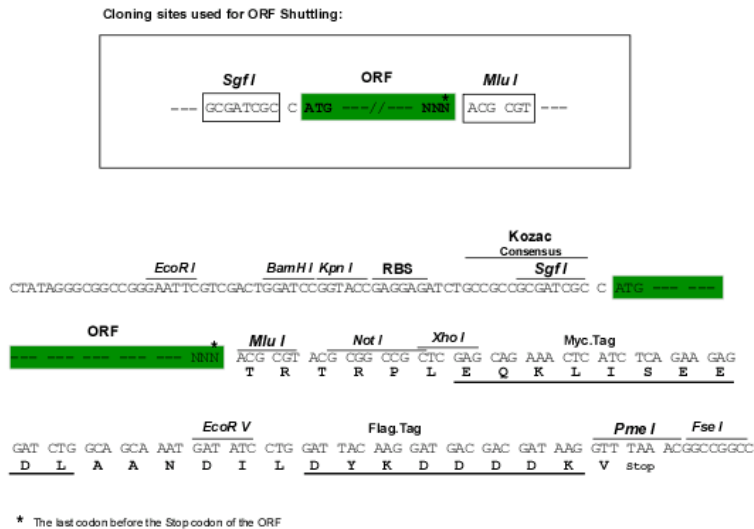


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**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2319\\_h05.zip](https://cdn.origene.com/chromatograms/ja2319_h05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001039175

**ORF Size:** 606 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](mailto: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:**

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\\_001039175.2](#), [NP\\_001034264.1](#)

**RefSeq Size:** 1583 bp

**RefSeq ORF:** 609 bp

**Locus ID:** 54325

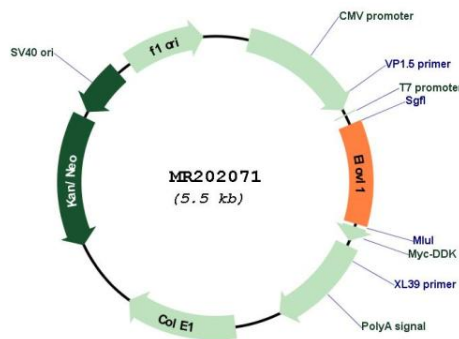
**UniProt ID:** [Q9JLJ5](#)

**Cytogenetics:** 4 D2.1

**MW:** 24.2 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 exhibits activity toward saturated and monounsaturated acyl-CoA substrates, with the highest activity towards C22:0 acyl-CoA. May participate in the production of both saturated and monounsaturated VLCFAs of different chain lengths that are involved in multiple biological processes as precursors of membrane lipids and lipid mediators. Important for saturated C24:0 and monounsaturated C24:1 sphingolipid synthesis. Indirectly inhibits RPE65 via production of VLCFAs.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR202071