

Product datasheet for MG203622

Elovl3 (BC016468) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Elovl3 (BC016468) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Elovl3

Synonyms: Cig30; CIN-2

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG203622 representing BC016468

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AGCCTACCTCAGGCCCAAGGGCAAAGTTGCATCCAAGAGCCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203622 representing BC016468

Red=Cloning site Green=Tags(s)

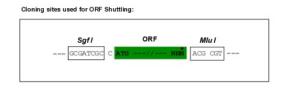
MDTSMNFSRGLKMDLMQPYDFETFQDLRPFLEEYWVSSFLIVVVYLLLIVVGQTYMRTRKSFSLQRPLIL WSFFLAIFSILGTLRMWKFMATVMFTVGLKQTVCFAIYTDDAVVRFWSFLFLLSKVVELGDTAFIILRKR PLIFVHWYHHSTVLLFTSFGYKNKVPSGGWFMTMNFGVHSVMYTYYTMKAAKLKHPNLLPMVITSLQILQ MVLGTIFGILNYIWRQEKGCHTTTEHFFWSFMLYGTYFILFAHFFHRAYLRPKGKVASKSQ

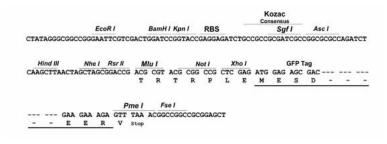
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: BC016468 **ORF Size:** 815 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: <u>BC016468</u>, <u>AAH16468</u>

RefSeq Size:1502 bpRefSeq ORF:815 bpLocus ID:12686

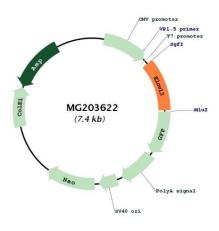
Cytogenetics: 19 38.75 cM

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]

Product images:

Gene Summary:



Circular map for MG203622