

Product datasheet for **MG203544**

Elov16 (NM_130450) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elov16 (NM_130450) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Elov16
Synonyms:	C77826; FAE; LCE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203544 representing NM_130450 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACATGTCAGTGTTGACTTTACAAGAATATGAATTCGAAAAGCAGTTCAACGAGAACGAAGCCATCC
AATGGATGCAGGAAAACCTGGAAGAAGTCTTCTGTTTTCTGCGCTATACGCTGCCTTTATCTTTGGTGG
TCGGCATCTGATGAACAAGCGAGCCAAGTTTGAAGTTTCGGAAGCCGCTCGTGCTCTGGTCGCTGACTCTT
GCCGCTTTCAGTATATTCGGTGTCTTTCGAAGTGGTGTACATGCTGTACATTCTGATGACCAAAGGCC
TGAAGCAGTCAGTTTGTGACCAGAGTTTTTACAATGGACCTGTACGAAATTCGGGCTTATGCATTTGT
GCTCAGCAAAGCACCCGAAGTAGGTGACAGCATATTCATCATTCTGAGGAAACAGAACTGATCTTCCTG
CACTGGTACCACCACATCACTGTGCTCCTGTACTCCTGGTACTCTACAAAGACATGGTCGCTGGGGGTG
GTTGGTTCATGACTATGAACTATGGCGTGCATGCCGTCATGACTCTTACTACGCCTTGCGGGCTGCGGG
TTTCCGAGTCTCCCGAAGTTTGCCATGTTTCATCACCTTGTCCAGATCACTCAGATGCTGATGGGCTGT
GTCATTAACCTGGTCTTCAACTGGATGCAGCATGACAACGACCAGTGCTACTCCACTTTTCAGAAC
TCTTCTGGTCTCGCTCATGTACCTCAGCTACCTGTGCTCTTCTGCCATTTCTTCTTTGAGGCCTACAT
CGGCAAAGTGAAGAAAGCCACGAAGGCTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203544 representing NM_130450
 Red=Cloning site Green=Tags(s)

MNMSVLTLQEYEFKQFNENEAIQWMQENWKSFLFSALYAAFIFGGRHLMNKRAKFAELRKLPLVLSLTL
 AVFSIFGALRTGAYMLYLMTKGLKQSVCDQSFYNGPVSKEFWAYAFVLSKAPELGDTIFILRKQKLI
 HWYHHITVLLYSWYSYKDMVAGGGWFMNMYGVHVMYSYALRAAGFRVSRKFAMFITLSQITQMLMGC
 VINYL VFNWMQHDNDQCYSHFQNIWFSSLMYLSYLVLFCHFFFEAYIGKVKKATKAE

TRTRPLE - GFP Tag - V

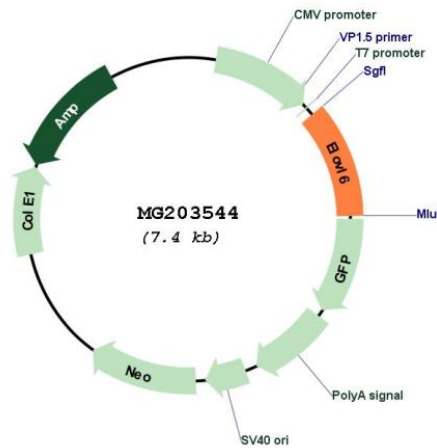
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_130450

ORF Size: 801 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:	<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_130450.2 , NP_569717.1
RefSeq Size:	5951 bp
RefSeq ORF:	804 bp
Locus ID:	170439
UniProt ID:	Q920L5
Cytogenetics:	3 G3
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 elongates fatty acids with 12, 14 and 16 carbons with higher activity toward C16:0 acyl-CoAs. Catalyzes the synthesis of unsaturated C16 long chain fatty acids and, to a lesser extent, C18:0 and those with low desaturation degree. 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.[UniProtKB/Swiss-Prot Function]