

Product datasheet for **MG216593**

Fut9 (NM_010243) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fut9 (NM_010243) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Fut9
Synonyms: A1746471; AU067636; mFuc-TIX; mFUT9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216593 representing NM_010243
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACATCAACATCCAAAGGCATTCTTCGCCATTTCTAATCGTCTGCATCATCCTGGGCTGCTTCATGG
CATGTCTGCTCATTTATATCAAGCCACCAACAGCTGGGTCTTCAGTCCAATGGAGTCTGCAAGTTCTGT
GCTGAAAATGAAAATTTCTTCCACAAAACGATTATTTAACGAACTACCATTCTGGTTGGGTA
TGGCCATTTGGGCAGACCTTTGACCTTACATCCTGCCAAGCAATGTTCAATATCCAAGGGTGCCATCTCA
CAACAGACCGCTCATTGTACAACAAATCCCATGCGGTCTGATTACCATAGAGACATCAGCTGGGATCT
GACTAACTTACCTCAGCAGGCCAGGCCACCTTTCAGAAATGGATTTGGATGAATTTAGAGTCACCCACT
CACACCCCAAAAGAGTGGCATTGAACACTTGTCAACCTGACTCTAATTATCGCCGTGATTCAGATA
TCCAAGTGCCTTATGGCTTCTTGACGGTGAGCACAAATCCCTTTGTGTTGAAGTGCCAAGCAAGGAGAA
GTTGGTGTGCTGGGTTGTGAGTAACTGGAACCTGAGCATGCCAGGGTCAAGTATTACAACGAGCTCAGC
AAGAGTATTGAAATCCACACCTATGGCCAAGCATTGCGAGAATACGTGAACGATAAAAACTGATTTCCCA
CCATATCTACTTGAAATTTTATCTTTTCATTTGAAAACCAATTCACAAAGATTACATCAGAAAAAGCT
CTACAATGCATTTTGGCTGGTTCAGTACCTGTTGCTGGGTCCATCTAGGGAAAACATGAGAATTAT
ATTCCAGCTGATTCATTCATTCATGTGGAAGATTTAACTCTCCAGTGAGTTAGCAAAATATCTGAAGG
AAGTTGACAAAAACAATAAGTTGTACCTTAGTTACTTTAACTGGAGAAAAGGATTTTACTGTAAACCTACC
ACGGTTTTGGGAATCACATGCATGCCTGGCATGCGACCATGTAAAAAGGCATCAAGAATATAAGTCTGTT
GGTAATTTAGAGAAATGGTTTTGGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG216593 representing NM_010243
 Red=Cloning site Green=Tags(s)

MTSTSKGILRPFLIVCIIILGCFMACLLIYIKPTNSWVFSMPESASSVLKMKNFFSTKTDYFNETTILVWV
 WPFQGTFDLTSCQAMFNIQGCHLTDRSLYNKSHAVLIHHRDISWDLTNLPQQRPPFQKWIWMNLESPT
 HTPQKSGIEHLFNLTLTYRRSDIQVPYGFLLTVSTNPFVFEVPSKEKLCVWVSNWNPEHARVKYNNELS
 KSIEIHTYQAFGEYVNDKNLIPTISTCKFYLSFENSIHKDYITEKLYNAFLAGSVPVVLGPSRENYENY
 IPADSFIVHVEDFNPSSELAKYLKEVDKNNKLYLSYFNWRKDFTVNLPWFESHACLACDHVKRHQYKYSV
 GNLEKWFVN

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2749_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



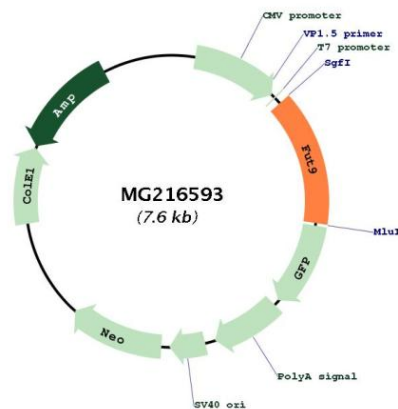
ACCN: NM_010243

ORF Size: 1077 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:	<u>NM_010243.3, NP_034373.1</u>
RefSeq Size:	11990 bp
RefSeq ORF:	1080 bp
Locus ID:	14348
UniProt ID:	<u>O88819</u>
Cytogenetics:	4 10.59 cM
Gene Summary:	Transfers a fucose to lacto-N-neotetraose but not to either alpha2,3-sialyl lacto-N-neotetraose or lacto-N-tetraose. Can catalyze the last step in the biosynthesis of Lewis antigen, the addition of a fucose to precursor polysaccharides.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MG216593