

## Product datasheet for **MG224322**

### **Fut10 (NM\_001012517) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fut10 (NM_001012517) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fut10
Synonyms:	fuc-TX; fut10A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224322 representing NM\_001012517  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGCGTTTCAGAGGAGGAAGCTTCTGGCCTCTTGCCTGTGTGTGACAGCGACTGTCTTTCTGATGG  
 TCACACTCCAGGTAGTGGTTGAGCTTGGGAAATTTGAAAGGAAGAAGCTTAAAGACTCCAATGTGCAAGA  
 CGGACATAGAGATGTGGAGGGAGAGCCTAAACACCTGGAGCCGTTTCTGAAAAGGAAGCACTGGCCTTG  
 GCTGGGAGGACAAAGGTGGATGCTGGTAGCTACCCCATCGTGTGTGGTGGTCCCACTGACTGGAGAGA  
 CTGGCAGGCTTGGCCAGTGTGGGCAGATGCTTCTTTACCATCAACAGGACCTTCCAGCATCATCC  
 GATGACCAGGGCCTTCTATTCTACGGTACTGACTTTAACATAGACAGCTTACCTTTGCCTCGGGAAGCC  
 CATCATGACTGGCGCTTTTCCATGAAGAGTCCCCAAAAACAATTATAAGCTCTCCATAAACAGTCA  
 TCACCTTATTCAACCATACGGCCACATTCAGCAGGCATCCCACTTGGCACTGACTACGCAGTACCTGGA  
 AGCGGTGGACGTCTGAAGTCACTCAGATACCTAGTTCCTTTACAGGCTAAGAACAACCTAAGACAAAA  
 CTGGCCCCATTGGTATATGTTTCAGTCGGACTGCGATCCACCATCAGACAGGGACAGCTATGTCCGGGAGC  
 TGATGGCGTACATTGAAGTTGATTCTATGGCGAGTGTACAGAACAGAGATCTCCCCAGCAGCTGAA  
 AAACCCCGCTCCATGGATGCTGATGCTTCTACAGAGTATTGCCAGTATAAGTTCATCTGGCCTTT  
 GAGAATGGCGTCTGTGACGATTACATCAGAGAAAGTTCTGGAGACCACTGAAACTGGGGTCTGCCCCG  
 TGTATTACGGATCCCCACCATCGCCGACTGGCTTCCAAGTAACCGAAGCGCCATTCTGGTGTGGGAATT  
 CTCTACCCCAGAGAGCTGGCGAGCTTCAATAGGAGACTGGATTATGACGATGGGTTGTATGAGACCTAT  
 GTAGAGTGAAGCTAAAGGGCAAGATCTTAACAGCGGCTTCTGACAGCTCTCAATGAACGGGAGTGGG  
 GTGTGCAGGACATTAACAGGACAACACTACATTGACTCGTTTGTGAGTGTATGGTGTGCCGAGGGTGGG  
 AAACAGTAGGCTGCAGGAGCAGGCTTACCACCAACAATGGAAGGCAGATGTTAGCCACCTGCATTGC  
 CCGGAGCCTGCCTTGTTCACCTTCTCATCTCCAGCTTCTCCGGCCCTACGTGGGAGATCGTTGCGAGAGC  
 TGTGGCTACCTAGCTTCCAACAGTCTAAAAAAGAAGCCAGGCACTGAGGTGGCTGGTGGATAGGAATCA  
 AAATTTTTCATCTGAAGAGTTCTGGGCTAGTATTTAAGGAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG224322 representing NM\_001012517  
 Red=Cloning site Green=Tags(s)

MVRFQRRKLLASCLCVTATVFLMVTLQVVVELGKFERKKLKDSNVQDGHDRDVEGEPKHLPEPPEKEALAL  
 AGRTKVDAGSYPIVLWWSPLTGETGRLGQCGADACFFTINRTFQHHPMTRAFIFYGTFDFNIDSLPLPREA  
 HHDWALFHEESPKNNYKLFHKPVITLFNHTATFSRHSPLPTTQYLEGVDVLKSLRYLVPLQAKNNLRQK  
 LAPLVYVQSDCDPPSDRDSYVRELMAYIEVDSYGECLQNRDLPQQLKNPASMDADAFYRVIAQYKILAF  
 ENAVCDDYITEKFWRPLKLGVPVYYGSPITADWLPNSRSAILVSEF SHPRELASFIRRLDYDDGLYETY  
 VEWKLGKISNQRLLTALNEREWGVQDINQDNYIDSFECMVCRRVWANSRLQEQLPPKQWKADVSHLHC  
 PEPALFTFSSPASPALRGRSLRELWLPSPFQQSKKEAQLRWLVDRNQNSSEEFWALVFKD

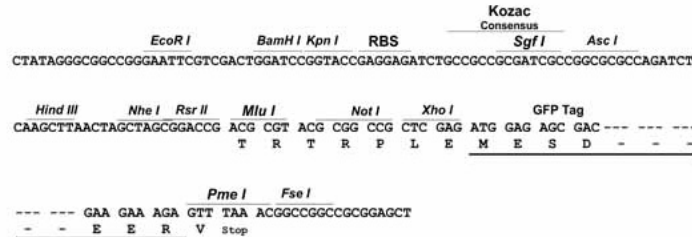
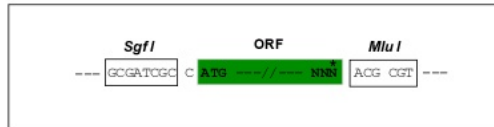
**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

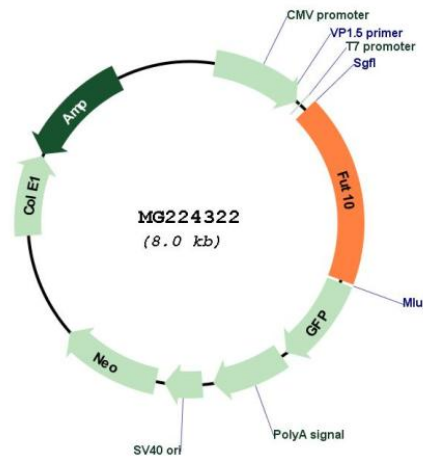
Sgfl-Mlul

## Cloning Scheme:

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: NM\_001012517

ORF Size: 1443 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:** [NM\\_001012517.5](#)

**RefSeq Size:** 3136 bp

**RefSeq ORF:** 1446 bp

**Locus ID:** 171167

**UniProt ID:** [Q5F2L2](#)

**Cytogenetics:** 8 A3

**Gene Summary:** Probable fucosyltransferase.[UniProtKB/Swiss-Prot Function]