

## Product datasheet for **MG225818**

### Fut4 (NM\_010242) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fut4 (NM_010242) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fut4
Synonyms:	AI451562; CD15; FAL; FucT-IV; LeX; SSEA-1; Ssea1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225818 representing NM_010242 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCCGGCCCGCAAGAGCTACAGCATGAGAGCCGGTGCCGCCCTCACGGACGGTGGACGCGTGGC  
GAGCCGCGGTGGCACTCGTGGACGCCACATGGAGACGCCGGGTACCGCGTCGCACACGGTGTGGAGG  
CTGGGACTACCCCGAGCGTCTCTTCGCTGGCGGCGTGGGACTACTGTGCACCGGTTGACCACCTTC  
ATCTGCTGGGACAGTTGCCGCACTGCCCTGGGCGTCCCGAGTCCGCAACGCCTGGTGGTGTGCTGC  
TCTGGTGGGAACCTTTAGGGGGCGCGGGCTACCCCAAGTCTCCCCCGATTGCAGCCTGCGCTCAA  
CATCAGCGGCTGCCGCTTGTCTACCGACCGCGCGCTACGGGGAGGCTCAGGCAGTGTGTCCACCAC  
CGCGACCTGGTGAAGAACTCCACGACTGGCCCCGCGCTGGGGCGCCGAGAACGCACGGATAAGGCGC  
TGGTACTACGCGTGTTCGACGACCAGGAGGGAGCAGTGACGCTAACTGGCAAAGCCCTGGAGACCGTAGG  
TTCTCGTCCCCCTGGGCAGAGGTGGGTGTGGATGAACTTCGAATCGCCCTCCCACTCCAGGGCTGCGG  
GGCTTGGCCAAGGACCTTTCAATTGGACTGTCTACCGGACCGACTCGGATGTCTTCGTCGCCATATG  
GCTTCTCTATTCCAGGAGCGATCCAATGAACAGCCTTCAGGCTTGGGCCCCAGCTGGCCCGCAAGCG  
AGGACTGGTGGCTGGTGTGAGCAACTGGAACGAGCACCAGGCACGGTCCGTTACTACCACAGCTG  
AGTCGGCACGTGTCTGTGACGTGTTGGTTCGGACGGGACCCGGACGGCCAGTCCAGCCATCGGGCTGC  
TGCACTGTGGCCCGCTACAAGTTTATCTGGCCTTTGAGAAGTACAGCACGTGGATTACATCACCGA  
GAAGCTGTGGAAGAAATGCCTTTCTGGCTGGGGCCGTGCCAGTGGTGTCTCGGCCAGATCGTGCCAACTAT  
GAGCGCTTCGTGCCTCGTGGCGCCTTCCACGTTGGACGATTTCCCTAATGCTGCTTCCCTGGCTGCCT  
ACCTGCTCTTCTCGACCGAAACGTGGCTGTCTATCGCCGCTACTTCGCTGGCGCCGAGCTTTGCAGT  
GCACATCACCTCTTCTGGGATGAGCAATGGTCCCGGACATGCCAAGCTGTGCAGACCTCTGGGACCAG  
CCCAAGAGCATCCAACTTGGCAGACTGGTTCAGCGA

ACGGGCCGCTCGAG - GFP Tag - GTTAA



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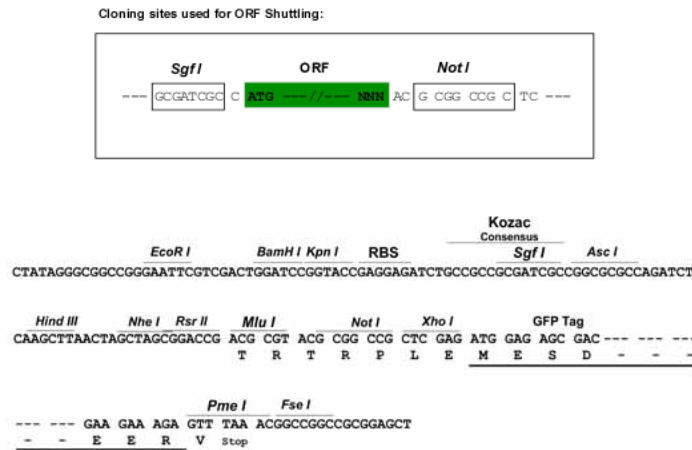
**Protein Sequence:** >MG225818 representing NM\_010242  
 Red=Cloning site Green=Tags(s)

MAPARQELQHESRCRPSRTVDAWRAAVATRGRHMETPGYRRRTRCGGWGLPRSVSSLAAVGLLCTALTTF  
 ICWGQLPPLPWASPAQRLVGVLLWPEFRGRGGYPKSPDCSLRFNISGCRLLTDRAAYGEAQAVLFHH  
 RDLVKELHDWPPPWGARERTDKALVLRVFDDEGAVTLTGKALETVGSRPPGQRVWWMNFESPSHTPGLR  
 GLAKDLFNWTLVSRVSDVDFVPYGFLYSRSDPTEQPSGLGPQLARKRGLVAWVVSNNWNEHQARVRYHQ  
 SRHVSVDVFGRTGPRPVPAIGLLHTVARYKFLAFENSQHVDYITEKLWKNFLAGAVPVVLGPDPRANY  
 ERFVPRGAFIHVDDFPNAASLAAYLLFLDRNAVYRRYFRWRRSFAVHITSFWDEQWCRTCQAVQTSGDQ  
 PKSIHNLADWFQR

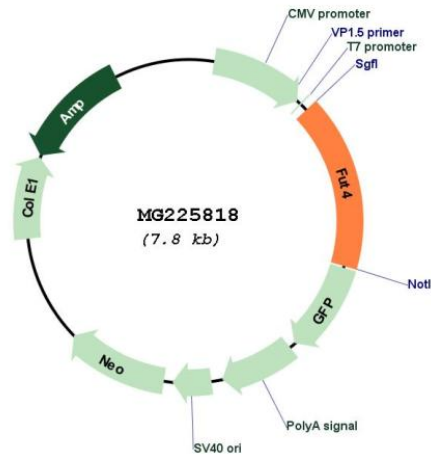
TRPLE - GFP Tag - V

**Restriction Sites:** SgfI-NotI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_010242

<b>ORF Size:</b>	1299 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_010242.3</a> , <a href="#">NP_034372.1</a>
<b>RefSeq Size:</b>	3664 bp
<b>RefSeq ORF:</b>	1302 bp
<b>Locus ID:</b>	14345
<b>UniProt ID:</b>	<a href="#">Q11127</a>
<b>Cytogenetics:</b>	9 4.3 cM
<b>Gene Summary:</b>	May catalyze alpha-1,3 glycosidic linkages involved in the expression of Lewis X/SSEA-1 and VIM-2 antigens.[UniProtKB/Swiss-Prot Function]