

## Product datasheet for **MR225818**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fut4 (NM_010242) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fut4
Synonyms:	AI451562; CD15; FAL; FucT-IV; LeX; SSEA-1; Ssea1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR225818 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTCCGGCCCGCAAGAGCTACAGCATGAGAGCCGGTGCCGCCCTCACGGACGGTGGACGCGTGGC  
 GAGCCCGGGTGGCCACTCGTGGACGCCACATGGAGACGCCGGGTACCGCGTCGCACACGGTGTGGAGG  
 CTGGGGACTACCCCGGAGCGTCTCTTCGCTGGCGCAGTGGGACTACTGTGCACCGCGTTGACCACCTTC  
 ATCTGCTGGGGACAGTTGCCGCCACTGCCCTGGGCGTCCCAGCTCCGCAACGCCTGGTGGGTGTCTGC  
 TCTGGTGGGAACCTTTAGGGGGCGCGCGCTACCCCAAGTCTCCCCCGATTGCAGCCTGCGCTTCAA  
 CATCAGCGGTGCCGCTTGTCAACGACCGCGCGCTACGGGGAGGCTCAGGCAGTGTGTTCCACCAC  
 CGCGACCTGGTGAAGGAAGTCCACGACTGGCCCCGCCCTGGGGCGCCGAGAACGCACGGATAAGGCGC  
 TGGTACTACGCGTGTTCGACGACCAGGAGGAGCAGTACGCTAACTGGCAAAGCCCTGGAGACCGTAGG  
 TTCTCGTCCCCCTGGGCAGAGGTGGGTGTGGATGAACTTCGAATCGCCCTCCCATACTCCAGGGCTCGCG  
 GGCTTGGCCAAGGACCTCTCAATTGGACTGTCTACCGGACCGACTCGGATGTCTTCGTGCCCTATG  
 GCTTCTCTATTCCAGGAGCGATCCAAGTGAACAGCCTTCAGGCTTGGGCCCCAGCTGGCCCGCAAGCG  
 AGGACTGGTGGCCTGGGTTGTGAGCAACTGGAACGAGCACCAGGCACGGGTCCGTTACTACCACCAGCTG  
 AGTCGGACCGTGTCTGTGGACGTGTTGGTCCGACGGGACCCGGACGGCCAGTGCAGCCATCGGGCTGC  
 TGCACACTGTGGCCCGCTACAAGTTTTATCTGGCCTTTGAGAAGTACACAGCAGTGGATTACATCACCGA  
 GAAGCTGTGGAAGAAATGCCTTTCTGGCTGGGGCCGTGCCAGTGGTGTCTCGGCCAGATCGTGCCAACTAT  
 GAGCGCTTCGTGCCTCGTGGCGCCTTCATCCACGTGGACGATTTCCCTAATGCTGCTTCCCTGGCTGCCT  
 ACCTGCTCTTTCTCGACCGAAACGTGGCTGTCTATCGCCGCTACTTCGCTGGCGCCGAGCTTTGCAGT  
 GCACATCACTCTTTCTGGGATGAGCAATGGTGGCGGACATGCCAAGCTGTGCAGACCTCGGGGACCAG  
 CCCAAGAGCATCCACAAGTGGCAGACTGGTTCAGCGA

AC**CGGCCCGC**TCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA  
 TTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225818 protein sequence  
 Red=Cloning site Green=Tags(s)

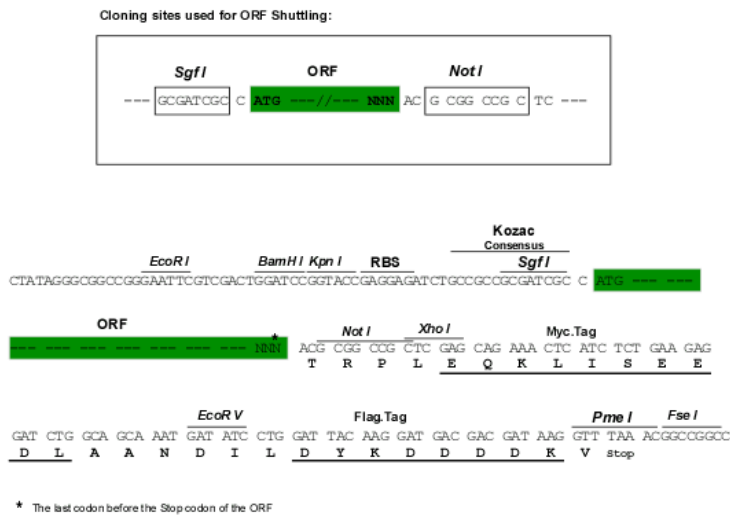
MAPARQELQHESRCRPSRTVDAWRAAVATRGRHMETPGYRRRTRCGGWGLPRSVSSLAAVGLLCTALTF  
 ICWGQLPPLPWASPAPQRLVGVLLWPEFRGRGGYPKSPDPSLRFNISGCRLLDRAAYGEAQAVLFHH  
 RDLVKELHDWPPPWGARERTDKALVLRVFDQEGAVTLTGKALETVGSRPPGQRWVWMNFESPSHTPGLR  
 GLAKDLFNWTLSYRTSDVFPYGFLYSRSDPTEQPSGLGPQLARKRGLVAWVVSNNEHQARVRYHQL  
 SRHVSVDVFGRTGPRPVPAIGLLHTVARYKFYLAFENSQHVDYITEKLWKNFLAGAVPVVLPDRANY  
 ERFVPRGAFIHVDDFPNAASLAAYLLFLDRNAVYRRYFRWRRSFVHITSFWDEQWCRTCQAVQTSGDQ  
 PKSIHNLADWFQR

**TRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-NotI

Cloning Scheme:



ACCN: NM\_010242

ORF Size: 1302 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\\_010242.1](#), [NM\\_010242.2](#), [NM\\_010242.3](#), [NP\\_034372.1](#)

RefSeq Size: 3664 bp

RefSeq ORF: 1302 bp

Locus ID: 14345

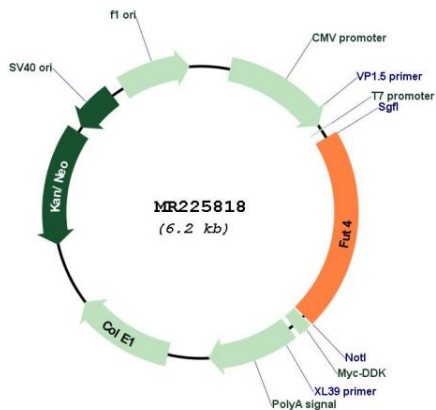
UniProt ID: [Q11127](#)

Cytogenetics: 9 4.3 cM

MW: 49.4 kDa

Gene Summary: May catalyze alpha-1,3 glycosidic linkages involved in the expression of Lewis X/SSEA-1 and VIM-2 antigens.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR225818