

## Product datasheet for MR219943

### Fut2 (NM\_018876) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fut2 (NM_018876) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fut2
Synonyms:	MFUT-II
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219943 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGAGTGCCAGGTACCTTTCTCCTTTCTCTGGCCACTTCCTCATCTTTGTCTTTGTGACTTCCA  
CCATCATCCACCTCCAGCAACGAATAGTGAAGCTCCAACCCTGTCAGAGAAGGAATTACAGGCGGTTCA  
AATGTCTCACCAACCGCGCAAGAACAGACATGCAGCAGAGTGCCAAGCTGCAGGGCATATTCACGATC  
AATTCCATCGGCCGCTGGGAACAGATGGGCAATATGCTACATTGTTTGCAGTGGCCAGGATGAACG  
GTCGGCTTGCCTTCATCCCTGAATCCATGCACAACGCTCTAGCGCCATCTTCAGGATCAGTCTCCCGT  
GTTACACAGCGACACAGCCAGAAGGATCCCGTGGCAGAATTACCACCTCAACGACTGGATGGAGGAGCGT  
TACCGCCACATCCCGGGCAGTATGTGCGTTTACGGGATACCCGTGCTCCTGGACCTTCTACCACCACC  
TGCGCCAGAGATCCTGAAGGAGTTCACCTGCACGACCATGTGCGTGAGGAGGCCAGGCTTCTCCTGCG  
TGGCCTGCGGGTGAATGGGAGCCAGCCGAGTACCTTTGTGGGTGCCATGTGCGCCGAGGGGACTATGTG  
CATGTCATGCCAAGGTGTGGAAGGGCGTGGTGGCTGACCGGGTTACCTAGAAAAGGCCCTGGACAGGT  
TCCGGGACGCTATTCATCTCCAGTCTTCGTGGTTACAAGCAACGGTATGGCCTGGTCCCGGAGAACAT  
CAACACCTCCCTAGGAGACGTGGTGTTCGGGCAATGGTATTGAGGGCTCACGACCAAGGACTTCGCG  
CTCCTCACCCAGTGCAACCACCATCATGACCATTTGGAACCTTTGGGATTTGGGCTGCCTACCTGGCAG  
GTGGTGATACCATCTACCTAGCCAACCTACACCCTTCCGGATTCTCCGTTCTCAAATCTTTAAGCCAGC  
AGCAGCCTTCTCCCGAGTGGATGGGCATCCCGCAGACCTGTCCCACTCCTTAAGCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR219943 protein sequence  
Red=Cloning site Green=Tags(s)

MASAQVPFSFPLAHFLIFVVTSTIIHLQQRIVKLQTLSEKELQAVQMSSPNAARTDMQSSAKLQGIFTI  
 NSIGRLGNQMGEYATLFLALARMNGRLAIFIPESMHNALAPIFRISLPVLHSDTARRIPWQNYHLNDWMEER  
 YRHIPGQYVRFYGYPCSWTFYHHLRPEILKEFTLHDHVREEAQAFRLGLRVNGSQPSTFVGVHVRRGDYV  
 HVMPKVWKGVVADRGYLEKALDRFRARYSSPVFVVTSTNGMAWCRENINTSLGDVVFAGNGIEGSPAKDFA  
 LLTQCNHTIMTIGTFGIWAAYLAGGDTIYLANYTLPDSPFLKIFKPAAAFLEPWMGIPADLSPLLKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_018876

**ORF Size:** 1044 bp

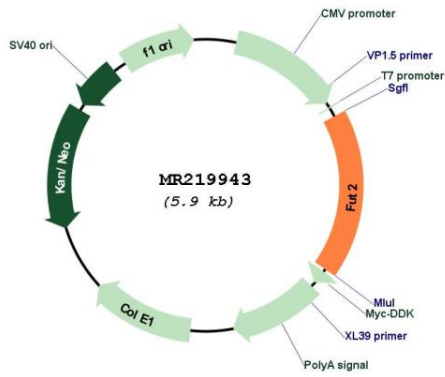
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<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>	<u>NM_018876.4, NP_061364.2</u>
<b>RefSeq Size:</b>	2969 bp
<b>RefSeq ORF:</b>	1044 bp
<b>Locus ID:</b>	14344
<b>UniProt ID:</b>	<u>Q9JL27</u>
<b>Cytogenetics:</b>	7 29.41 cM
<b>MW:</b>	39.2 kDa
<b>Gene Summary:</b>	<p>This gene is one of three genes in mouse which encode a galactoside 2-L-fucosyltransferase. These genes differ in their developmental- and tissue-specific expression. The encoded type II membrane protein is anchored in the Golgi apparatus and controls the final step in the creation of alpha (1,2) fucosylated carbohydrates by the addition of a terminal fucose in an alpha (1,2) linkage. This enzyme is involved in the synthesis of the Lewis antigen as well as the H-antigen, a precursor of the A and B antigens of the ABH histo-blood group. The biological function of the fucosylated carbohydrate products is thought to involve cell-adhesion and interactions with microorganisms. Disruption of this gene results in altered glycosylation of gastric mucosa and uterine epithelia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]</p>

Product images:



Circular map for MR219943