

Product datasheet for **MC208513**

Fut2 (NM_018876) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fut2 (NM_018876) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fut2
Synonyms:	MFUT-II
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC208513 representing NM_018876 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGTGCCAGGTACCTTCTCCTTCTGCTGGCCACTTCTCATCTTTGTCTTTGTGACTTCCA
CCATCATCCACCTCCAGCAACGAATAGTGAAGCTCCAAACCTGTGAGAGAAGGAATTACAGGCGGTTCA
AATGTCCTCACAAACCGGGCAAGAACAGACATGCAGCAGAGTGCCAAGCTGCAGGGCATATTCAGGATC
AATTCCATCGGCCGCTGGGGAACCAGATGGGCGAATATGCTACATTGTTTGCAGTGGCCAGGATGAACG
GTCGGCTTGCTTCATCCCTGAATCCATGCACAACGCTCTAGCGCCCATCTTCAGGATCAGTCTCCCGGT
GTTACACAGCGACACAGCCAGAAGGATCCCGTGGCAGAATTACCACCTCAACGACTGGATGGAGGAGCGT
TACCGCCACATCCCGGGGAGTATGTGCGTTTACGGGATACCGGTGCTCCTGGACCTTCTACCACCACC
TGCGCCAGAGATCCTGAAGGAGTTACCCCTGCACGACCATGTGCGTGAGGAGGCCAGGCTTCTCTGCG
TGGCCTGCGGGTGAATGGGAGCCAGCCGAGTACCTTGTGGGTGCCATGTGCGCCGAGGGGACTATGTG
CATGTCATGCCAAGGTGTGAAGGGCGTGGTGGCTGACCGGGTTACCTAGAAAAGGCCCTGGACAGGT
TCCGGGCAGCTATTCATCTCCAGTCTTCGTGGTTACAAGCAACGGTATGGCTGGTCCCGGGAGAATCA
CAACACCTCCCTAGGAGACGTGGTGTTCGCGGCAATGGTATTGAGGGCTACCAGCCAAGGACTTCGCG
CTCCTCACCCAGTGCAACCACACCATCATGACCATTGGAACCTTTGGGATTTGGGCTGCCTACCTGGCAG
GTGGTGATACCATCTACCTAGCCAACTACACCCTCCGGATTCTCCGTTCTCAAATCTTTAAGCCAGC
AGCAGCCTTCTCCCGAGTGGATGGGCATCCCGCAGACCTGTCCCACTCCTTAAGCACTAA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_018876



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Insert Size:	1044 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	NM_018876.4 , NP_061364.2
RefSeq Size:	2969 bp
RefSeq ORF:	1044 bp
Locus ID:	14344
UniProt ID:	Q9JL27
Cytogenetics:	7 29.41 cM

Gene Summary:

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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.