

Product datasheet for **MG218449**

Fut1 (NM_008051) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fut1 (NM_008051) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fut1
Synonyms:	MFUT-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218449 representing NM_008051 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGACTCCCAGCCGGAGGCAGCTCTGCCTGGCATTCTGTTGGTCTGTGTGCTCTGCCGGCTCCT
TCTTTTTCCACCTGAATGGAGGAAACTTCTTCGAAATGGTCTAACTCTCTGTCTGTGTTCCAGACTA
TCACCTGTGAAGTCCCCAGTGGCCATGGTATGCCTACCTCATCCATTGCAGACATCTAATGGCTCCCT
TCCTGTCTGAGCAGTCCCTCACTCTCTGGACTTGGACAATCACCCAGGAGGCAGGTTTGGTAACC
AGATGGGGCAGTATGCTACATTGCTGGCCCTAGCCAGCTCAATGGTCGCAAGCCTTCATCCAACCTGA
GATGCATGCCGCCCTGGCCCCGTGTTCCGAATCTCCCTGCCAGTGTGGACCCTGAGGTGGACAGCCTC
ACACCTTGGCAGCACTTAGTCCTACATGACTGGATGTCAGAGGAGTACTCCCATCTGGAGGACCCATTTT
TCAAGCTGTCTGGTTTCCCTGTCTTGGACCTTTTTCCATCATCTTCGGGAACAGATTGATAGGGAATT
CACTCTGCATAACCATCTACGGGAAGGTGCCAGTACCTGTTGAGCGGGCTCCGTATAGGCCCGGGGGC
ATCCGCCCTACACCTTTGTGGGTGCCATGTGCGTCTGGAGACTATCTGGAGGTGATGCCAATCGCT
GGAAGGGTGTGGTGGGTGACCGAGCTTACCTCCAGCAAGCCATGGACTGGTTCGGGGCCGACACAAGA
CCCCATCTTTGTGGTCACCAGCAATGGCATGAAATGGTGTGGAGAACATTGACACATCCCATGGTGAT
GTGGTCTTCGCTGGCAATGGACAGGAGGTACACCGGGAAGACTTTGCACTTTCACACAGTGAACC
ACACCATGACTATTGGCACCTTTGGCTTCTGGGCTGCCTACTTAGCTGGTGGAGACACGGTCTACCT
TGCAAACTTCACCTGCCAGATTCGGAGTTTCTGAAGATCTTCAGGCCTGAGGCTGCCTTCTGCCTGAG
TGGGTGGGCATCAATGCAGACTTGTCCCGCTGCAGGCTCAATTTGACCCTGGAAGCCAGACAGTCTTT
TTAGATTGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG218449 representing NM_008051
 Red=Cloning site Green=Tags(s)

MWTPSRRQLCLAFLLVCVLSAGSFFFHNLNGGNFFRNLTL SVLCSDYHLLKSPVAMVCLPHPLQTSNGSP
 SCPEQSSSLSGTWTITPGGRFGNQMGQYATLLALAQLNGRQAFIQPEMHAALAPVFRISLPVLDPEVDSL
 TPWQHLVLHDMSEYSHLEDPLKLSGFPCSWTFHHLREQIRREFTLHNHLREGAQYLLSGLRIGPAG
 IRPHTFVGVHVRGDYLEVMPNRWKGVVGDRAYLQQAMDWFRARHKDPIFVVT SNGMKWCLENIDTSHGD
 VVFAGNQEGTPGKDFALLTQCNHTIMTIGTFGFWAAYLAGGDTVYLANFTLPDSEFLKIFRPEAAFLPE
 WVGINADLSPLQAQFDPWKPDSLFRLV

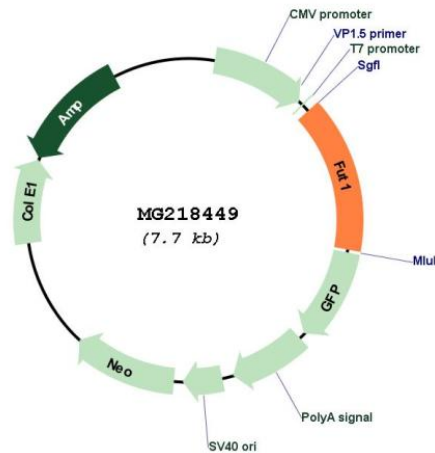
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008051

ORF Size:	1131 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>
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:	<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_008051.6 , NP_032077.2
RefSeq Size:	2578 bp
RefSeq ORF:	1134 bp
Locus ID:	14343
UniProt ID:	O09160
Cytogenetics:	7 29.39 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 required for 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 impairs development of the olfactory nerve and maturation of the glomerular layer of the main olfactory bulb. Alternative splicing results in multiple transcript variants which encode distinct isoforms. [provided by RefSeq, Dec 2012]