

Product datasheet for MR229238

Fut1 (NM_001271981) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Fut1 (NM_001271981) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Fut1
 Synonyms: MFUT-1
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >MR229238 representing NM_001271981
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTATGCCTACCTCATCCATTGCAGACATCTAATGGCTCCCCTCCTGTCCTGAGCAGTCTCCTCAC
 TCTCTGGGACTTGGACAATCACCCAGGAGGCAGGTTTGGTAACCAGATGGGCGAGTATGCTACATTGCT
 GGCCCTAGCCAGCTCAATGGTCGCAAGCCTTCAACCTGAGATGCATGCCGCCCTGGCCCCGCTG
 TTCCGAATCTCCCTGCCAGTGTGGACCCTGAGGTGGACAGCCTCACACCTTGGCAGCACTTAGTCCTAC
 ATGACTGGATGTCAGAGGAGTACTCCCATCTGGAGGACCCATTTCTCAAGCTGTCTGGTTTCCCCTGCTC
 TTGGACCTTTTTCCATCATCTTCGGGAACAGATTTCGTAGGGAATTCACCTGTCATAACCATCTACGGGAA
 GGTGCCAGTACCTGTTGAGCGGGCTCCGTATAGGCCCGCGGGCATCCGCCCTCATACCTTTGTGGGTG
 TCCATGTGCGTCGTGGAGACTATCTGGAGGTGATGCCAATCGCTGGAAGGGTGTGGTGGGTGACCGAGC
 TTACCTCCAGCAAGCCATGGACTGGTTCGGGGCCGACACAAAGACCCCATCTTTGTGGTACCAGCAAT
 GGCATGAAATGGTGTGGGAGAACATTGACACATCCCATGGTGTGTTGCTTCGCTGGCAATGGACAGG
 AGGGTACACCGGGAAGGACTTTGCACTTCTCACACAGTGAACCACCATCATGACTATTGGCACCTT
 TGGCTTCTGGGCTGCCTACTTAGCTGGTGGAGACCGGTCTACCTTGCAAACCTCACCTGCCAGATTG
 GAGTTTCTGAAGATCTTCAGGCCTGAGGCTGCCTTCTGCCTGAGTGGGTGGGCATCAATGCAGACTTGT
 CCCCGCTGCAGGCTCAATTTGACCCCTGGAAGCCAGACAGTCTTTTTAGATTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229238 representing NM_001271981
Red=Cloning site Green=Tags(s)

MVCLPHPLQTSNGSPSCPEQSSSLSGTWTITPGGRFGNQMGQYATLLALAQLNGRQAFIQPEMHAALAPV
 FRISLPVLDPEVDSLTPWQHLVLHDMWSEEYSHLEDPFLKLSGFPCSWTFHHHLREQIRREFTLHNHLRE
 GAQYLLSGLRIGPAGIRPHTFVGVHVRGDYLEVMPNRWKGVVGDRAVLQQAMDWFRARHKDPIFVVTSN
 GMKWLENIDTSHGDVVFAGNGQEGTPGKDFALLTQCNHTIMTIGTFGFWAAYLAGGDTVYLANFTLPDS
 EFLKIFRPEAAFLPEWVGINADLSPLQAQFDPWKPDSLFRLLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

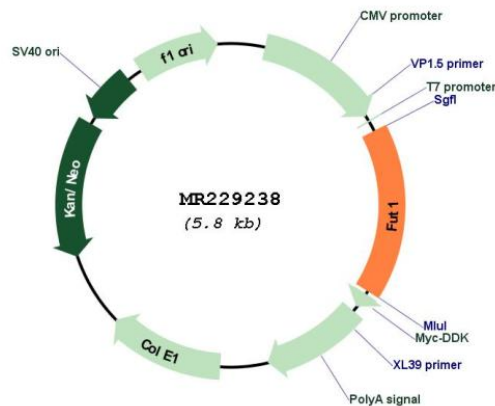
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271981

ORF Size: 966 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:	<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_001271981.1 , NP_001258910.1
RefSeq Size:	2442 bp
RefSeq ORF:	969 bp
Locus ID:	14343
UniProt ID:	O09160
Cytogenetics:	7 29.39 cM
MW:	36.7 kDa
Gene Summary:	<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 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]</p>