

## Product datasheet for **MR209034**

### **Fut8 (NM\_016893) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fut8 (NM_016893) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fut8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR209034 representing NM\_016893, codon optimized.  
Due to the complexity of NM\_016893, the ORF clone is codon optimized for mammalian Expression.  
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCGGGCATGGACTGGTTCCTGGCGTTGGATTATGCTCATTCTTTTGCCTGGGGACCTTGTTATTTT  
ATATAGGTGGTCATTTGGTTCGAGATAATGACCACCCTGATCACTCCAGCAGAGAACTCTCCAAGATTCT  
TGCAAAGCTTGAACGCTTAAAACAGCAAAATGAAGACTTGAGGCGAATGGCTGAGTCTCTCCGAATACCA  
GAAGGCCCATTTGACCAGGGGACAGCTACAGGAAGAGTCCGTGTTTTAGAAGAACAGCTTGTTAAGGCCA  
AAGAACAGATTGAAAATTACAAGAAACAAGCTAGAAAATGGTCTGGGGAAGGATCATGAAATCTTAAGAAG  
GAGGATTGAAAATGGAGCTAAAGAGCTCTGGTTTTTTCTACAAAGCGAACTGAAGAAATTAAGCATTTA  
GAAGGAAATGAACTCAAAGACATGCAGATGAAATTTCTTTGGATTTAGGACACCATGAAAGGTCTATCA  
TGACAGATCTATACTACCTCAGTCAAACAGATGGAGCAGGGGATTGGCGTGAAAAAGAGGCCAAAGATCT  
GACAGAGCTGGTCCAGCGGAGAATAACATATCTCCAGAATCCTAAGGACTGCAGCAAAGCCAGGAAGCTG  
GTGTGTAACATCAATAAAGGCTGTGGCTATGGTTGTCACTCCATCACGTGGTCTACTGTTTCATGATTG  
CTTATGGCACCAGCGAACACTCATCTTGAATCTCAGAATTGGCGCTATGCTACTGGTGGATGGGAGAC  
TGTATTCAGGCCGTGTGAGTGAGACATGTACCGACAGATCTGGACTGAGCACAGGGCATTGGTCCGGAGAG  
GTTAACGACAAGAACATTCAGGTTGTTGAGCTCCCTATTGTGGATTCCCTTCATCCTAGACCGCCATATC  
TCCCACTGGCCGTGCCTGAGGACCTCGCTGACCGCCTGCTGCGGGTTCATGGGGACCCGGCCGTCTGGTG  
GGTGTCTCAGTTTGTGAAGTATCTTATCAGACCGCAGCCCTGGCTGGAAAAGGAGATAGAGGAGGCCACT  
AAAAAGCTGGGATTCAAACATCCCGTATTGGAGTACATGTGCGAAGAAGTATAAAGTGGGCACTGAAG  
CGGCATTTTCATCCAATCGAAGAATACATGGTACACGTGGAGGAGCATTTCAGCTTCTGGCGGAAGGAT  
GCAGGTTGACAAGAAGCGAGTTTACCTGGCCACTGATGACCCAACGCTGCTGAAAGAGGCTAAGACTAAG  
TACTCCAATTATGAGTTTATCAGTGACAATCCATATCTTGGAGCGCCGGCTGCACAACCGCTATACAG  
AGAATAGCCTGCGCGGTGTCATCTTGGATATCCATTTCTTTCTCAGGCCGACTTCTCGTCTGTACTTT  
CTTTACAGGTATGCAGAGTAGCTACGAAATCATGCAGACACTCCACCCAGATGCCTCCGCAAAATTTT  
CATAGCCTTGATGATATCTACTACTTTGGTGGCAGAATGCCATAACCAGATCGCAGTTTACCCTCATA  
AGCCCCGACTGAGGAAGAGATCCCATGGAACCAGGGGACATTATCGGGGTGGCCGTAACCATTTGGGA  
TGGCTATAGCAAGGGGATTAATCGGAAGCTGGTAAGACCGGTCTTTACCTTCTACAAGGTTCCGGAA  
AAGATCGAAACAGTGAATACCCAACATACCCAGAGGCGGAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR209034 representing NM\_016893  
Red=Cloning site Green=Tags(s)

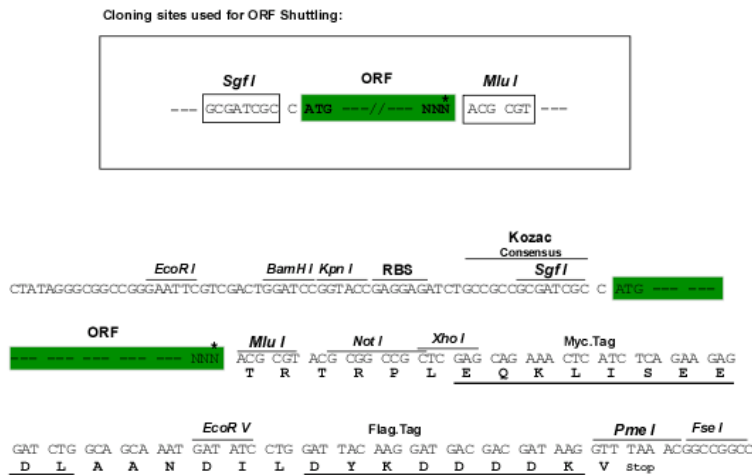
MRAWTGSWRWIMLILFAWGTLIFYIGGHLVRDNDHPDHSSRELSKILAKLERLKQQNEDLRRMAESLRIP  
 EGPIDQGTATGRVRLVEEQLVKAKEQIENYKKQARNGLGKDHEILRRRIENGAKELWFFLQSELKKLKHL  
 EGNELQRHADEILLDLGHHERSIMTDLYYLSQTDGAGDWREKEAKDLTELVQRRITYLQNPKDCSKARKL  
 VCNINKGCGYGCQLHHVVYCFMIAYGRTQLILESQNRYATGGWETVFRPVSETCTDRSGLSTGHWSGE  
 VNDKNIQVVELPIVDSLHPRPPYPLAVPEDLADRLLRVHGDPVWVVSQFVKYLIRPQPWLEKEIEEAT  
 KKLGFKHPVIGVHVRRTDKVGTEAAFHPIEEYMHVVEEHFQLARRMQVDKRVYLATDDPTLLKEAKTK  
 YSNYEFISDNSISWSAGLHNRYTENSRLRGVILDHFLSQADFLVCTFSSQVCRVAYEIMQTLHPDASANF  
 HSLDDIYFYGQNAHNQIAVYPHKPRTEEEIPMEPGDIIIGVAGNHWGYSKGINRKLKGTGLYPSYKRVRE  
 KIETVKYPTYPEAEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



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

**ACCN:** NM\_016893

**ORF Size:** 1725 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\\_016893.1](#), [NM\\_016893.2](#), [NM\\_016893.3](#), [NM\\_016893.4](#), [NM\\_016893.5](#), [NP\\_058589.2](#)

**RefSeq Size:** 2923 bp

**RefSeq ORF:** 1728 bp

**Locus ID:** 53618

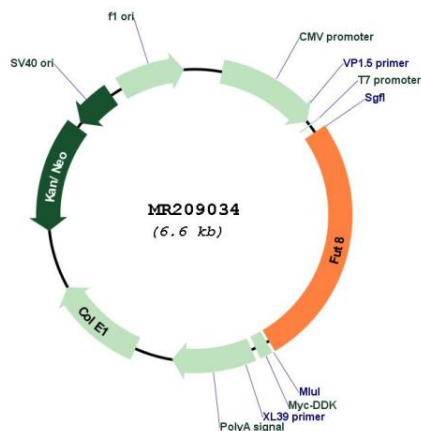
**UniProt ID:** [Q9WTS2](#)

**Cytogenetics:** 12 C3

**MW:** 66.6 kDa

**Gene Summary:** Catalyzes the addition of fucose in alpha 1-6 linkage to the first GlcNAc residue, next to the peptide chains in N-glycans.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR209034