

## Product datasheet for **MR211204**

### Fuk (BC037698) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fuk (BC037698) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fuk
Synonyms:	1110046B12Rik; AI303278
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR211204 representing BC037698  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCCGAGACTTCCCCTTCGATGACTGTGGCAGGGCCTTCACTTGCCCTCCCTGTGGAGAACCACAGG  
 CCCTGTGGAGGCCTTGGTATGCAACCTGGACTGCCTGTTGGATATCATGACCCACCGGCTGGGTCCAGG  
 TCCCCACCAGGTGTGTGGTCTGCAGCACCGACATGCTTCTGTCTGTTCTCCAAACCCTGGGATCAGT  
 TGGGATGGCTTCCGGGGAGCCAGAGTGATCGCCTTTCCTGGGAGCCTGGCCTATGCGTTGAACCACGGTG  
 TCTACCTCACTGACTCACAGGGCTTGGTTTTGGACATTTACTACCAGGGCACTAAGGCGGAGATAACAACG  
 TTGTGTCGGACCTGATGGGCTGGTACCATTGGTCTCCGGGGTCTGCTTCTTCTGTGGAGACTGCTGAG  
 CACCTCTAGCCACCCATGTGAGCCACCCTGGATGCCTGCACCTATATGGGCTGGACTCTGGAGCCC  
 AGCCTGTGCAGCTGTCTGTTTTTCGACATCCTGCTGTCATGGCTCGGAATATGAGCAGGGAGAACTT  
 CCTGGCTGGGCGGCCCGGAGTTGGGGCAAGGTGACATGGATGTAGCAAGTTACCTGAAGGGAGCCCGG  
 GCCAGCTGTGGAGGGAGCTTCGAGATCAGCCCCACAAATGGTGTATGTCCCTGACGGCGGCTACAGCT  
 ACATGACGACTGATGCCACCGAGTTCCTGCACAGACTCACGATGCCTGGAGTAGCTGTGGCACAGATTGT  
 TCACTCCCAGGTGGAGGAGCCACAGCTGCTAGAGGCTACGTGCTCGGTGGTACAGTGCCTGCTCGAGGGC  
 CCTGTGCACCTGGGGCCTCGAAGTGTCTGCAGCACTGTACCTGAGGGGCCCAATTCGCATCGGCGCTG  
 GCTGCTTTGTGAGTGGTCTGGATACAGCCCACTCGGAGGCACTGCATGGCTGGAGCTCCATGATGCAT  
 CCTGCAGGGACACCATGTGCGGCTGCATGGCTCCCTGAGCCGTGATTTACTCTTGTCTGGCCGTCTGGAC  
 AGCTGGGAAAGACAGGGGGCAGGCATGATCTCAACATGTCTGGAATGAGTTCTTCAAGAAGACAGGCA  
 TTCGAGACTGGACCTGTGGGACCCAGATACACCCCTCAGATCGATGCCTCCTCACTGCCCGCTTTT  
 CCTGTGCTCCACCCACGAGGGCCCTGGGGCCCAAGGATGTGCTGTGGATGCTGCACCCCGCAACAC  
 AGAGGTGAGGCCCTTCGGGCTGGCAGCCTCCTGGCGTCTGCTGGGAGCAGCTGCAACCTTGTGTGG  
 ACCGGGCTGCCACACTGGACTTCCGCCGAGATCTGTTCTTCTGCCAGGCCTTGCAAGAAGCAAGGCATGT  
 GTTAGAGGCGCGGAGGACCTCTGCCTACGTCCACTGATCCGGGCGCTGTGGGGAAAGTTGCTCTGGG  
 CCCCTGCTGGCCACACTTGACAAGTTGCAGTGGGGCAGAAGATCCTGGCGTGGCAGCCCGGGCTCTGG  
 CTTGTGTGGCCGATGTGCTGGGCTGCATGGCAGAGGGCCGAGGAGCTTGCAGTGGGCCAGCTGCCAA  
 CCCTGAGTGGATTACGCCTTTCATACTTGGAGTGTGGAGACCTGATGAGGGGTGTGGAGGCGCTTGGC  
 CAGGAGAGAGAGAAGTGGCTGACCAGGCCTGCCTTGTGTTTCGAGCTGCCCGCCATTACGAGGGGGCCG  
 AGCAGATCCTGATCCGCCAGGCTGTGATGACAGCCCGGCACTTCGTCTCCACCCAGCCCGTGGAGCTGCC  
 CGCACCCGGGAGTGGTGGTACTGAGTGCCAGCCCGTGTGGATTTCTCTGGGGGCTGGAGTGACACA  
 CCGCCATTGCCTATGAGCTTGGTGGAGCAGTGTGGGCTGGCTGTGCGGGTGGATGGCCGCCGGCCCA  
 TCGGGGCCAAAGCACGCCGCATCCCGGAGCCTGAGCTCTGGCTGGCAGTGGGACCTCGGCAGGATGAGAT  
 GACCATGAGGATAGTGTCCGGAGCCTGGATGACCTGCGGGATTACTGCCAGCCTCATGCCCCAGGGGCC  
 TTGCTGAAGGCAGCCTTATCTGTGCTGGCATTGTGCATCTCCACTCAGAGCTCCCTCTGCTTGAACAGT  
 TGTTACACTCCTTAAATGGTGGCTTTGAGCTGCACACGTGGTTCAGAGCTGCCGACGGCTCTGGTCTTGG  
 CACCAGCAGCATCCTGGCAGGGGCTGCCCTGGCTGCCTTACAGCGGGCTGCAGGCCGGGAGTGGGCACG  
 GAGGCTCTCATCCACGAGTGTGCACCTGGAGCAGGTGCTCACCACAGGAGGTGGCTGGCAGGACCAAG  
 TCAGTGGCCTAATGCCTGGCATCAAAGTGGGGCGCTCCCGGGCCAGCTGCCCTCAAGGTGGAGGTGGA  
 GGAAATCACTGTGCCTGAGGGCTTTGTCCAGAAGAAGCTTATGGCCCCAGGCTGCGAGCCGCTGGCCGTG  
 CAGCGAATGATGGATGCTCTGGCCCCGATGCGTATGGCCAAAGCCTGGCAGGGGAGGTTGGGGGCT  
 TTCTCTATCTATTGACCAAGGAACCCCGGCAGAAAGAGACTCTGGAAGCTGTCTGGCCAAGGCTGAGGG  
 CCTTGGCAACTACAGTGTCCACCTGGTGAAGTGGATCCTCAGGGCCTGAGCCTGCAGCTGCTGGGACAC  
 GACACCCGTCTTTGTGGGGCCGGCCCTCTGAAGTGGGACCACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR211204 representing BC037698  
 Red=Cloning site Green=Tags(s)

MGRDFPFDDCGRAFTCLPVENPQAPVEALVCNLDCLLDIMTHRLGPGSPPGVWVCSTDMLLSVPPNPGIS  
 WDFGRGARVIAFPGSLAYALNHGVYLTDSQGLVLDIYYQGTKAEIQRCVGPDGLVPLVSGVVFVSVETAE  
 HLLATHVSPPLDACTYMGLDSGAQPVQLSLFFDILLCMARNMSRENFLAGRPPELGGQMDVASYLKGAR  
 AQLWREL RDQPLTMVYVPDGGYSYMTTDATEFLHRLTMPGVAVAQIVHSQVEEPQLLEATCSVVSCLLEG  
 PVHLGPRSVLQHCHLRGPIRIGAGCFVSGLDTAHSEALHGLELHDVILQGHVRLHGSLSRVFTLAGRLD  
 SWERQAGMYLNMWNEFFKKTGIRDWLDWDPDTPPSDRCLLTARLFPVLHPTRALGPQDVLWMLHPRKH  
 RGEALRAWRASWRLSWEQLQPCVDRAATLDFRRDLFFCQALQKARHVLEARQDLCLRPLIRA AVGEGCSG  
 PLLATLDKVAAGAEDPGVAARALACVADVLGMAEGRGGLRSGPAANPEWIQPF SYLECGDLMRGVEALA  
 QEREKWLTRPALLVRAARHYEGAEQILIRQAVMTARHFVSTQPVELPAPGQWVTECPARVDFSGGWSDT  
 PPIAYELGGAVLGLAVRVDGRRI GAKARRIPEPELWLVGPRQDEMTMRI VCRSLDDL RDYQPHAPGA  
 LLKAAFCAGIVHLHSELPLLEQLLHSFNGGFELHTWSELPHGSGLTSSILAGAALAALQRAAGRAVGT  
 EALIHAVLHLEQVLTGGGWQDQVSGLMPGIKVGSRSAQLPLKVEVEEITVPEGFVQKLMAPGCEPLAV  
 QRMDVLAPYAYGQSLAGAGGGGFLYLLTKEPRQKETLEAVLAKAEGLGNYSVHLVEVDPQGLSLQLLGH  
 DTRL CGAGPSEVGT T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9043\\_a06.zip](https://cdn.origene.com/chromatograms/mm9043_a06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



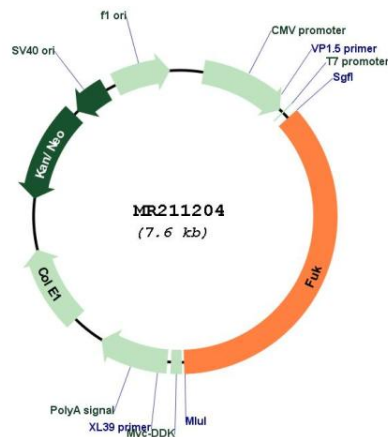
\* The last codon before the Stop codon of the ORF

**ACCN:** BC037698

**ORF Size:** 2775 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:** [BC037698.1](#)
- RefSeq Size:** 3626 bp
- RefSeq ORF:** 2777 bp
- Locus ID:** 234730
- Cytogenetics:** 8 E1
- MW:** 132.9 kDa
- Gene Summary:** Takes part in the salvage pathway for reutilization of fucose from the degradation of oligosaccharides.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR211204