

Product datasheet for **MG211204**

Fuk (BC037698) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fuk (BC037698) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fuk
Synonyms:	1110046B12Rik; AI303278
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211204 representing BC037698
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCGAGACTTCCCCTTCGATGACTGTGGCAGGGCCTTCACTTGCCCTCCCTGTGGAGAACCACAGG
 CCCTGTGGAGGCCTTGGTATGCAACCTGGACTGCCTGTTGGATATCATGACCCACCGGCTGGGTCCAGG
 TCCCCACCAGGTGTGTGGTCTGCAGCACCGACATGCTTCTGTCTGTTCTCCAACCCTGGGATCAGT
 TGGGATGGCTTCCGGGGAGCCAGAGTGATCGCCTTTCCTGGGAGCCTGGCCTATGCGTTGAACCACGGT
 TCTACCTCACTGACTCACAGGGCTTGGTTTTGGACATTTACTACCAGGGCACTAAGGCGGAGATAACAACG
 TTGTGTCGGACCTGATGGGCTGGTACCATTGGTCTCCGGGGTCTGCTTCTTCTGTGGAGACTGCTGAG
 CACCTCTAGCCACCCATGTGAGCCACCCTGGATGCCTGCACCTATATGGGCTGGACTCTGGAGCCC
 AGCCTGTGCAGCTGTCTGTTTTTCGACATCCTGCTCTGCATGGCTCGGAATATGAGCAGGGAGAAGTT
 CCTGGCTGGGCGGCCCGGAGTTGGGGCAAGGTGACATGGATGTAGCAAGTTACCTGAAGGGAGCCCGG
 GCCAGCTGTGGAGGGAGCTTCGAGATCAGCCCCACAAATGGTGTATGTCCCTGACGGCGGCTACAGCT
 ACATGACGACTGATGCCACCGAGTTCCTGCACAGACTCACGATGCCTGGAGTAGCTGTGGCACAGATTGT
 TCACTCCCAGGTGGAGGAGCCACAGCTGCTAGAGGCTACGTGCTCGGTGGTACAGTGCCTGCTCGAGGGC
 CCTGTGCACCTGGGGCCTCGAAGTGTCTGCAGCACTGTACCTGAGGGGCCCAATTCGCATCGGCGCTG
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 CTTGTGTGGCCGATGTGCTGGGCTGCATGGCAGAGGGCCGAGGAGCTTGCAGTGGGCCAGCTGCCAA
 CCCTGAGTGGATTACGCCTTCTCATACTTGGAGTGTGGAGACCTGATGAGGGGTGTGGAGGCGCTTGC
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 AGCAGATCCTGATCCGCCAGGCTGTGATGACAGCCCGGCACTTCGTCTCCACCCAGCCCGTGGAGCTGCC
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 CCGCCATTGCCTATGAGCTTGGTGGAGCAGTGTGGGCTGGCTGTGCGGGTGGATGGCCGCCGCCCA
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 CCTTGGCAACTACAGTGTCCACCTGGTGAAGTGGATCCTCAGGGCCTGAGCCTGCAGCTGCTGGGACAC
 GACACCCGCTTTGTGGGGCCGGCCCTCTGAAGTGGGACCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211204 representing BC037698
 Red=Cloning site Green=Tags(s)

MGRDFPFDDCGRAFTCLPVENPQAPVEALVCNLDCLLDIMTHRLGPGSPPGVWVCSTDMLLSVPPNPGIS
 WDFGRGARVIAFPGLAYALNHGVYLTDSQGLVLDIYYQGTKAEIQRCVGPDGLVPLVSGVVFFSVETAE
 HLLATHVSPPLDACTYMGLDSGAQPVQLSLFFDILLCMARNMSRENFLAGRPPELGGQDMDVASYLKGAR
 AQLWREL RDQPL TMVYVPDGGYSYMTTDATEFLHRLTMPGVAVAQIVHSQVEEPQLLEATCSVVSCLLEG
 PVHLGPRSVLQHCHLRGPIRIGAGCFVSLGDTAHEALHGLELHDVILQGHVRLHGSLSRVFTLAGRLD
 SWERQGGMYLNMWNEFFKKTGIRDWLDWDPDTPPSDRCLLTARLFPVLHPTRALGPQDVLWMLHPRKH
 RGEALRAWRASWRLSWEQLQPCVDRAATLDFRRDLFFCQALQKARHVLEARQDLCLRPLIRA AVGEGCSG
 PLLATLDKVAAGAEDPGVAARALACVADVLGMAEGRGGLRSGPAANPEWIQPF SYLECGDLMRGVEALA
 QEREKWLTRPALLVRAARHYEGAEQILIRQAVMTARHFVSTQPVELPAPGQWVTECPARVDFSGGWSDT
 PPIAYELGGAVLGLAVRVDGRRI GAKARRIPEPELWLVGPRQDEMTMRI VCRSLDDL RDYQC PHAPGA
 LLKAAFI CAGIVHLHSELPLLEQLLHSFNNGFELHTWSELPHGSGLTSSILAGAALAALQRAAGRAVGT
 EALIHAVLHLEQVLTGGGWQDQVSGLMPGIKVGSRSAQLPLKVEVEEITVPEGFVQKKLMAPGCEPLAV
 QRMMDVLA PYAYGQSLAGAGGGGFLYLLTKEPRQKETLEAVLAKAEGLGNYSVHLVEVDPQGLSLQLLGH
 DTRLCGAGPSEVGT

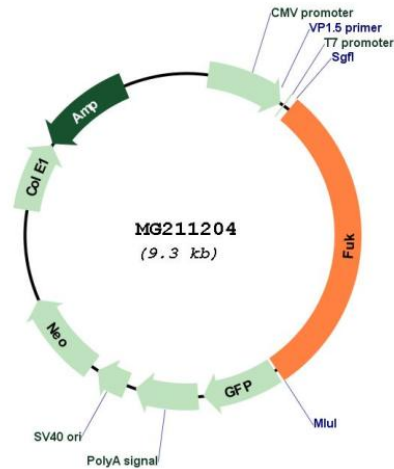
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


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

Gene Summary:

Takes part in the salvage pathway for reutilization of fucose from the degradation of oligosaccharides.[UniProtKB/Swiss-Prot Function]