

Product datasheet for MR221394

Fuk (NM_172283) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fuk (NM_172283) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fuk
Synonyms: 1110046B12Rik; AI303278
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR221394 representing NM_172283
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCAGTCAGAGGGAGTCAATTGGACTGTCATTATCCTGACATGCCAGTACAAGGACAGTGTCCAGG
 TCTTTTCAGAGAGAGCTGGAGGTAAGGCAGAGACGGGAGCAGATTCCTGCGGGGACGATGTTACTGGCTGT
 GGAGGATCCCCAGACTCGAGTCGGCAGCGGAGGAGCCACCCTCAACGCACTGCTGGTGGCTGCTGAACAC
 TTGAGTGGCCGAGCTGGCTTCACTGTGGTCACGTCCGATGTCCTGCACTCTGCCTGGATCCATCTTGC
 ACATGGGCGGAGACTTCCCCTTCGATGACTGTGGCAGGGCCTTCCTTGCCTCCCTGTGGAGAACCACACA
 GGCCCTGTGGAGGCCTTGGTATGCAACCTGGACTGCCTGTTGGATATCATGACCCACCGGCTGGGTCCA
 GGTTCACCACAGGTGTGTGGTCTGCAGCACCAGCATGCTTCTGTCTGTTCCCAAACCTGGGATCA
 GTTGGGATGGCTTCCGGGGAGCCAGAGTGATCGCCTTTCCTGGGAGCCTGGCCTATGCGTTGAACCACGG
 TGTCTACCTCACTGACTCACAGGGCTTGGTTTTGGACATTTACTACCAGGGCACTAAGGCGGAGATACAA
 CGTTGTGTCGGACCTGATGGCTGGTACCATTGGTCTCCGGGGTCTCTTCTTCTGTGGAGACTGCTG
 AGCACCTCCTAGCCACCATGTGAGCCACCGCTGGATGCCTGCACCTATATGGGCTTGGACTCTGGAGC
 CCAGCCTGTGCAGCTGTCTGTTTTTCGACATCCTGCTCTGCATGGCTCGGAATATGAGCAGGGAGAAC
 TTCTGTGGTGGGCGGCCCGGAGTTGGGGCAAGGTGACATGGATGTAGCAAGTTACCTGAAGGGAGCCC
 GGGCCAGCTGTGGAGGGAGCTTCGAGATCAGCCCTCACAATGGTGTATGTCCCTGACGGCGGCTACAG
 CTACATGACGACTGATGCCACCGAGTTCCTGCACAGACTCACGATGCCTGGAGTAGCTGTGGCACAGATT
 GTTCACTCCAGGTGGAGGAGCCACAGCTGCTAGAGGCTACGTGCTCGGTGGTCACTGCTGCTCGAGG
 GCCCTGTGCACCTGGGGCTCGAAGTGTCTGCAGCACTGCACCTGAGGGGCCCATTCGCATCGGCGC
 TGGCTGCTTTGTGAGTGGTCTGGATACAGCCACTCGGAGGCACTGCATGGCCTGGAGCTCCATGATGTC
 ATCCTGCAGGGACACCATGTGCGCTGCATGGCTCCCTGAGCCGTGATTTACTCTGTCTGGCCGTCTGG
 ACAGCTGGGAAAGACAGGGGGCAGGCATGTATCTCAACATGTCCTGGAATGAGTTCTTCAAGAAGCAGG
 CATTTCGAGACTGGGACCTGTGGGACCCAGATACACCCCTCAGATCGATGCCTCCTCACTGCCCGCCTT
 TTCCCTGTGCTCCACCCACGAGGGCCTGGGGCCCGAGGATGTGCTGTGGATGCTGCACCCCGCAAAAC



ACAGAGGTGAGGCCCTTCGGGCCTGGCGAGCCTCTGGCGTCTGTCTGGGAGCAGCTGCAACCTTGTGT
 GGACCGGGCTGCCACACTGGACTTCGCGGAGATCTGTTCTTCTGCCAGGCCCTGCAAGAAGGCAAGGCAT
 GTGTTAGAGGCGCGCAGGACCTCTGCCTACGTCCACTGATCCGGGCCGTGTGGGGAAGGTTGCTCTG
 GGCCCTGCTGGCCACACTTGACAAGGTTGACAGCTGGGGCAGAAGATCCTGGCGTGGCAGCCCGGCTCT
 GGCTTGTGTGGCCGATGTGCTGGGCTGCATGGCAGAGGGCCGAGGAGGCTTGCAGTGGCCAGCTGCC
 AACCTTGAGTGGATTACGCTTTCTCATACTTGGAGTGTGGAGACCTGATGAGGGGTGTGGAGGCGCTTG
 CCCAGGAGAGAGAAGTGGCTGACCAGGCCTGCCTTGTGGTTGAGCTGCCGCCATTACGAGGGGGC
 CGAGCAGATCCTGATCCGCCAGGCTGTGATGACAGCCCGCACTTCGTCTCCACCCAGCCGTGGAGCTG
 CCCGACCCGGGAGTGGGTGGTACTGAGTGCCAGCCCGTGTGGATTCTCTGGGGGCTGGAGTGACA
 CACCGCCATTGCCTATGAGCTTGGTGGAGCAGTGTGGGCTGGCTGTGCGGGTGGATGGCCGCCGGCC
 CATCGGGCCAAAGCACGCCGATCCCGGAGCCTGAGCTCTGGCTGGCAGTGGGACCTCGCAGGATGAG
 ATGACCATGAGGATAGTGTGCCGAGCCTGGATGACCTGCGGGATTACTGCCAGCCTCATGCCCCAGGGG
 CCTTGCTGAAGGCAGCCTTATCTGTGCTGGCATTGTGCATCTCCACTCAGAGCTCCCTCTGCTTGAACA
 GTTGTACTACTCCTTAAATGGTGGCTTTGAGTGCACACGTGGTCAAGCTGCCGCACGGCTCTGGTCTT
 GGCACCAGCAGCATCCTGGCAGGGGCTGCCCTGGCTGCCTTACAGCGGGTGCAGCCGGCAGTGGGCA
 CGGAGGCTCTATCCACGCAGTGTGCACCTGGAGCAGGTGCTACCACAGGAGGTGGCTGGCAGGACCA
 AGTCAGTGGCCTAATGCCTGGCATCAAAGTGGGGCGCTCCCGGGCCAGCTGCCCTCAAGTGGAGGTG
 GAGGAAATCACTGTGCTGAGGGCTTTGTCCAGAAGATCAATGACCATCTGCTCCTGTTTATACCGGCA
 AGACCCGATTGGCCCGAATCTGCTGCAGGACGTGCTGAGGAAGTGGTACGCTCGGTTGCCCGTTGGT
 ACAGAATGCCCGCAGACTGGTGCACAGACCGAGAAGTGCCTGAAGCTTCCGCCAAGGAAACCTGCCT
 CTGCTGGGACAGTACCTGACCTCATACTGGGAGCAGAAGAAGCTTATGGCCCCAGGCTGCAGCCGCTGG
 CCGTGCAGCGAATGATGGATGTCTGGCCCCGTATGCGTATGGCCAAAGCCTGGCAGGGGAGGTGGTGG
 GGGCTTTCTCTATTGACCAAGGAACCCCGCAGAAAGAGACTCTGGAAGCTGTCTGGCCAAGGCT
 GAGGGCCTTGGCAACTACAGTGTCCACCTGGTGAAGTGGATCCTCAGGGCCTGAGCCTGCAGCTGCTGG
 GACACGACACCCGCTTTGTGGGGCCGGGCCCTCTGAAGTGGGCACCACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221394 representing NM_172283
 Red=Cloning site Green=Tags(s)

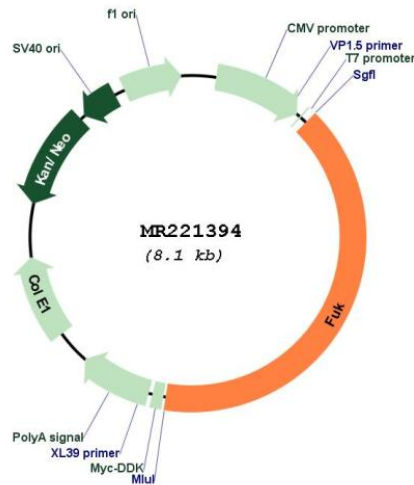
MEQSEGVNWTVIIILTCQYKDSVQVFQRELEVRQRREQIPAGTMLLAVEDPQTRVSGGATLNALLVAAEH
 LSARAGFTVVTSDVLHSAWILILHMGRDFPFDDCGRAFTCLPVENPQAPVEALVCNLDCLLDIMTHRLGP
 GSPPGVVWCSTDMLL SVPPNPGISWDGFRGARVIAFPGLSALYALNHGVYL TDSQGLVLDIYYQGTAEIQ
 RCVGPDGLVPLVSGVVFVSVETAHELLATHVSPPLDACTYMGLD SGAQPVQLSLFFDILLCMARNMSREN
 FLAGRPPELGGQMDVASYLK GARAQLWREL RDQPLTMVYVPDGGYSYMTDATEFLHRLTMPGVAVAQI
 VHSQVEEPQLLEATCSVV SCLLEGPVHLGPRSVLQHCHLRGPIRIGAGCFVSGLDTAHSEALHGLELHDV
 ILQGHVRLHGSLSRVFTLAGRLDSWERQAGMYLNMSWNEFFKKTGIRDWLDWDPDTPPSDRCLLTARL
 FVVLHPTRALGPQDVLWMLHPRKHRGEALRAWRASWRLSWEQLQPCVDRAATLDFRRDLFFCQALQKARH
 VLEARQDLCLRPLIRA AVGEGCSGPLLATL DKVAAGAEDPGVAARALACVADVLGCAEGRGGLRS GPAA
 NPEWIQPF SYLECGDLMRGVEALAQEREKWLTRPALLVRAARHYEGAEQILIRQAVMTARHFVSTQPVEL
 PAPGQWVTECPARVDFSGGWS DTPPIAYELGGAVLGLAVRVDGRRPIGAKARRIPEPELWLA VGPQRDE
 MTMRIVCRSLDDL RDYCQPHAPGALLKAAFICAGIVHLHSELPLLEQLLHSFNNGGFELHTWSELPHGSGL
 GTSSILAGAALALQRAAGRAVGTEALIHAVLHLEQVLTGGGWQDQV SGLMPGIKVGSRSAQLPLKVEV
 EETVPEGFVQKINDHLLL VYTGKTRLARNLLQDVLRNWYARLPVVVQNARRLVRQTEKCAEAFRQGNLP
 LLGQYLTSYWEQKLMAPGCEPLAVQRMMDVLPYAYGQSLAGAGGGGFLYLLTKEPRQKETLEAVLAKA
 EGLGNYSVHLVEVDPQGLSLQLLGH DTRLCCGAGPSEVGT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_172283

ORF Size: 3270 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:	<u>NM_172283.3, NP_758487.2</u>
RefSeq Size:	3833 bp
RefSeq ORF:	3273 bp
Locus ID:	234730
UniProt ID:	<u>Q7TMC8</u>
Cytogenetics:	8 E1
MW:	119.7 kDa
Gene Summary:	Takes part in the salvage pathway for reutilization of fucose from the degradation of oligosaccharides.[UniProtKB/Swiss-Prot Function]