

## Product datasheet for MR214288

### Fam46c (NM\_001142952) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fam46c (NM\_001142952) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Fam46c  
**Synonyms:** 4930431B09Rik; AI449797  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR214288 representing NM\_001142952  
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGAGGAGGGCAGCAGTACCAAGGACTCTGAGTCTTCAGCGTGCTCAACTGGGATCAGGTTAGCC  
GGCTGCACGAGGTCCTGACTGAGGTCGTGCCCATCCACGGGCGAGGCAACTTTCCAACCTTGAGATAAC  
CCTGAAGGACATTGTCCAGACTGTCGAGGCCGGCTGGAGGAGGCAGGCATCAACGTGCAGGACGTCGG  
CTGAACGGCTCTGCAGCCGGCCACGTTTTGGTCAAAGACAACGGCTTGGGTTGCAAAGATCTGGATCTGA  
TCTTTCACGTGGCTCTCCACAGAGGGGAATTCAGCTGGTGAGAGATGTGGTCTGTGCTCCCTTCT  
GAACCTTCTGCCAGAGGGCGTGAATAAGCTCAAATCAGCCCCGTACCCCTGAAGGAGGCGTACGTGCAG  
AAGCTGGTGAAGGTTTGCACAGACACAGACCGCTGGAGCCTGATTTCCCTCTCCAACAAGAACGGGAGGA  
ACGTGGAGCTCAAGTTTGTGACTCCATCCGGCGGAGTTTGAGTTCAGCGTGGACTCTTCCAGATCAT  
CCTAGATTCTTTGCTCTTTTCTATGACTGCTCCGGCAATCCCATCTCCGAGCATTTCCACCCACAGTG  
ATCGGGGAGAGTATGTACGGGATTTTGGGAAGCCTTTGACCATCTTCAGAACAGGCTGATCGCCACCA  
AGAACCCTGAAGAAATCCGAGGTGGGGTCTCCTTAAGTACAGCAACCTCCTGTGCGGGACTTCAGGCC  
TGCCGACCAGGAGGAGATCAAGACCCTGGAGCGTTACATGTGCTCCAGATTTTTCATCGACTTCCCGGAC  
ATCCTGGAACAGCAGAGGAAGCTGGAGACCTACCTTCAGAACCACTTCTCGGACGAGGAGAGAAGCAAGT  
ACGACTACCTCATGATTCTCCGACGGTTGTGAACGAGAGCACCGTGTGCCTCATGGGGCACGAACGCAG  
GCAGACCTGAACCTCATCTCTCCTGCGCTTGCCTGTGCTGGCAGAAACAAACATCATCCCCAGTGCC  
ACCAACGTACCTGTTACTACCAGCCAGCTCCTTACGTCACTGATGGCAACTTCAACAACCTATTACATTG  
CGCACCTCCAATTACCTACAGCCAGCCTTATCTACATGGCTGCCCTGTAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001142952

ORF Size: 1173 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\\_001142952.1](#), [NP\\_001136424.1](#)

RefSeq Size: 2054 bp

RefSeq ORF: 1176 bp

Locus ID: 74645

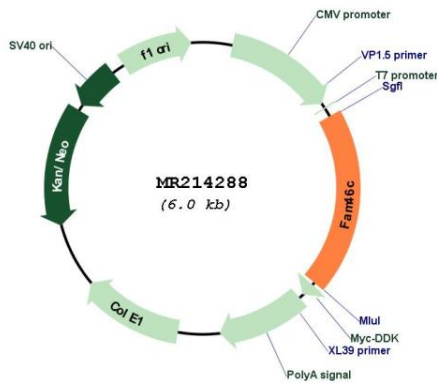
UniProt ID: Q5SSF7

Cytogenetics: 3 F2.2

MW: 45.2 kDa

**Gene Summary:** Nucleotidyltransferase that act as a non-canonical poly(A) RNA polymerase which enhances mRNA stability and gene expression. Mainly targets mRNAs encoding endoplasmic reticulum-targeted protein and may be involved in induction of cell death.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR214288