

Product datasheet for **RR208577**

Fam46c (NM_001014041) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fam46c (NM_001014041) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fam46c
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR208577 representing NM_001014041
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCAGACGAGGGCAGCAGTACCAAGGACTCCGAGTCCCTTCAGCGTGCTCAACTGGGATCAAGTTAGCC
GGCTGCATGAGGTCCTGACTGAGGTCGTACCCATCCATGGACGTGGCAACTTTCCAACCTTGGAGATAAC
CTGAAGGACATTGTCCAGACTGTCCGAAGCCGGCTGGAAGAGGGCGGCATCAAAGTGCAGGACGTCGG
CTGAACGGCTCTGCAGCCGGCCATGTTTTGGTCAAAGACAACGGCTTGGGTTGCAAAGATCTGGATCTGA
TCTTTCAGTGGCTCTTCCACAGAGGCAGAATTCAGCTGGTGAGAGATGTGGTTCTGTCTCCCTTCT
GAACTTCTGCCAGAGGGCGTGAATAAGCTCAAAATCAGCCCCGTGACTCTGAAGGAGGCGTATGTGCAG
AAGCTGGTGAAGGTCTGCACAGACACAGACCGCTGGAGCCTGATTTCCCTCTCCAACAAGAACGGGAGGA
ACGTGGAGCTCAAGTTTGTGACTCCATCCGGCGTCAGTTTGTGTTTGTGAGGAGGACTCTTCCAGATCAT
CCTAGATTCTTTGCTCTTTTCTATGACTGCTCCAGTAACCCCGTCTCCGAGCATTTCACCCCTACGGTG
GTCGGGGAGAGCATGTACGGGGATTTTGTAGGAAGCCTTTGACCATCTTCAGAACAGGCTGATCGCCACCA
AGAACCCTGAAGAGATCCGAGGTGGGGTCTTTCTAAGTACAGCAACCTTCTGTGCGGGACTTCAGGCC
TGGCGACCAGGAGGAGATCAAGACTCTGGAGCGCTACATGTGCTCCAGGTTTTTCATCGACTTCCCGGAC
ATCCTGGAGCAGCAGAGGAAGCTGGAGACCTACCTTCAGAACCACTTCGCGGACGAGGAGAGAAGCAAGT
ACGACTACCTCATGATTCTTCGAGGGTGTGAATGAGAGCACCGTGTGCTCATGGGGCAGGAGCGCAG
GCAGACCTGAACCTCATCTCTCTCCTGGCCTTGGTGTGCTGGCGGAACAAAACATCATCCCCAGTGCC
ACCAACGTCACTGTACTACGACCGCTCCTTATGTGAGTGTGGCAACTTCAACAATTACATTG
CCCACCTCCAGTTACCTACAGTCAGCCTTATCTACATGGCTGCCCTGTAAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208577 representing NM_001014041
 Red=Cloning site Green=Tags(s)

MADEGSSTKDSESFVSLNWDQVSRLHEVLTEVVPPIHGRGNFPTLEITLKDIVQTVRSRLEEAGIKVQDVR
 LNGSAAGHVLVKDNGLGCKDLDFHVALPTEAEFQLVRDVVLCSSLNFLPEGVNLKISPVTLKEAYVQ
 KLVKVCVTDTRWSLISLKNKGRNVLFVDSIRRRQFEFVDSFQIILDSLLFFYDCSSNPVSEHFHPTV
 VGESMYGDFEEAFDHLQNRLIATKNPEEIRGGGLLKYSNLLVRDFRPADQEEIKTLERYMCSRFFIDFPD
 ILEQQRKLETYLQNHFADEERSKYDYLMLRRVNESTVCLMGHERRQTLNLISSLALRVLAEQNIIPSA
 TNVTCYQPAPYVSDGNFNYYIAHPPVTYSQPYPTWLPNC

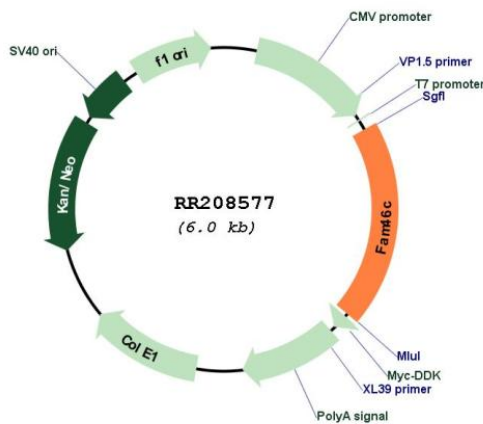
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014041

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:	<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:	NM_001014041.1 , NP_001014063.1
RefSeq Size:	2047 bp
RefSeq ORF:	1176 bp
Locus ID:	310721
UniProt ID:	Q5XIV0
Cytogenetics:	2q34
MW:	44.8 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]