

## Product datasheet for MR214038

### Fam50b (NM\_138746) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fam50b (NM_138746) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fam50b
Synonyms:	D0H6S2654E; X5L; XAP-5-like
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR214038 representing NM_138746 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCAGTACAAAGGCACCATGCGGGAAGCTGGCCGGGCCATGCACCTGATCAAGAAGCGTGAGAAGC  
AGAAGGAGCAGATGGAGGTGCTGAAGCAGCGCATCGCAGAGGAGACCATCATGAAGTCAAAAGTGGACAA  
GAAGTTCTCGGCACACTACGACGCCGTGGAGGCCGAGCTGAAGTCCAGTACGGTGGCCCTGGTGACCCTG  
AATGACATGAAGGCCAAGCAGGAGGCCCTGCTGAGGGAGCGGGAGATGCAGCTGGCCAAGAGGGAGCAGC  
TGGAGCAACGCCGATACAGCTGGAGATGCTGCGCGAGAAGGAGCGAAGCGGAGAGCGCAAGCGCAAGAT  
CTCCAACCTGTCTTTACGTTGGACGAGGAAGAAGGTGACCAAGAGGACAGCCGCCAAGCCGAGAGTGCC  
GAGGCCACAGTCTGGAGCCAAGAAGAACTTGGCAAGAATCCCGATGTGGACACGAGCTTCTGCCCG  
ACCGCGAGCGCGAGGAGGAGGAGAACCAGGTTGCGCGAGGAAGTGCAGGAGGAGTGGGAGGCGAAGCGCGA  
GAAGGTGAAGGGCGAGGAGGTGGAGATCACCTTCAGCTACTGGGATGGCTCCGGCCACCGGCGCACGGTG  
CGCATGAGCAAGGGCAGCACGGTGCAGCAGTTCCTGAAGCGGGCGCTGCAGGGGCTGCGCAGGGACTTCC  
GGGAGCTGCGGGCAGCGGGCGTGGAGCAGCTCATGTACGTCAAGGAGGATCTCATCTGCCGCACTATCA  
CACCTTCTACGACTTCATCGTGGCCAAAGCCCGGGCAAGAGCGGCCCGCTTTCAGCTTCGACGTGCAC  
GACGATGTGCGGCTGCTGAGCGATGCCACGATGGAGAAAGATGAGTCACACGCGGGCAAGGTGGTGTCTC  
GCAGTGGTACGAGAAGAACAAGCACATCTTCCCTGCCAGCCGCTGGGAGCCCTACGACCCCGAGAAGAA  
GTGGGACAGGTACACCATCCGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR214038 representing NM\_138746  
Red=Cloning site Green=Tags(s)

MAQYKGTMR EAGRAMHL IKKREKQKEQMEVLKQRI AEETIMKSKVDK KFSAHYDAVEAE LKSSTVGLVTL  
 NDMKAKQEQE ALLREREMQLAKREQL EQRRIQLEMLREKERRRERKRKISNL SFTLDEEEGDQEDSRQAESA  
 EAHSAGAKKNL GKNPDVDT SFLPDREREEENRLEELRQEWAKREKVKGEEVEITFSYWDGSGHRRTV  
 RMSKGSTVQQFLKRALQGLRRDFRELRAAGVEQLMYVKEDLILPHYHTFYDFIVAKARGKSGPLFSFDVH  
 DDVRLLS DATMEKDESHAGKVVLRSWYEKNKHIFPASRWEPYDPEKKWDRYTIR

TRTRPLEQKLISEEDLAANDILDYKDDDDKVK

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9080\\_e02.zip](https://cdn.origene.com/chromatograms/mm9080_e02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_138746

**ORF Size:** 1002 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\\_138746.2](#), [NP\\_620085.2](#)

**RefSeq Size:** 1315 bp

**RefSeq ORF:** 1005 bp

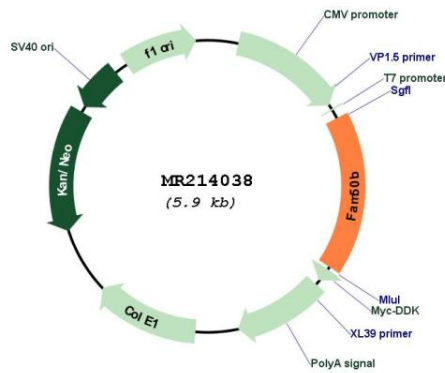
**Locus ID:** 108161

**UniProt ID:** [Q9WTJ8](#)

**Cytogenetics:** 13 A3.3

**MW:** 39.6 kDa

**Product images:**



Circular map for MR214038