

## Product datasheet for **MR209466**

### **F2 (NM\_010168) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	F2 (NM_010168) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	F2
Synonyms:	Cf-2; Cf2; F; FII; prot; thro
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR209466 representing NM\_010168  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCGACGCTCCGCGGCTGGGCTCCCTGGCTGCTTGGCTCTGGCTGCCCTGGTTAGCCTGGTACACA  
 GCCAGCATGTGTTCTGGCGCCTCAGCAAGCACTATCGCTGCTCCAGCGGTCGCGAGCCAACAGTGG  
 CTTCTGGAGGAGCTCCGAAAGGCAACCTAGAGCGTGAGTGCCTGGAAGAGCAGTGCAGCTATGAGGAG  
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 GAAACTCGTGAAAACTTCTGCCCAACCCAGACTGGGATGAGGAGGGCGCATGGTGTATGTTGCGGGG  
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 AAGGTGGATACAGAAAGTCATTGATCAATTTGGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209466 representing NM\_010168  
 Red=Cloning site Green=Tags(s)

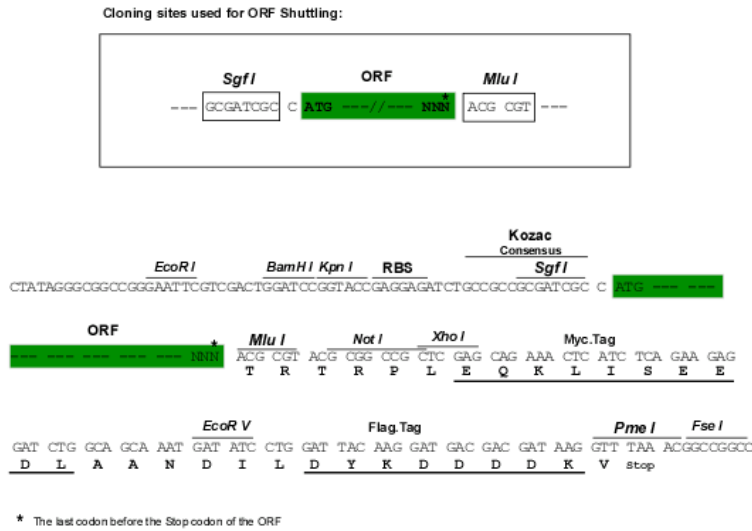
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 VRIGKHSRTRYERNVEKISMLEKIYVHPRYNWRENDRDIALLLKPKVPFSDYIHPVCLPDKQTVTSL  
 RAGYKGRVTGWGNLRETWTNINEIQPSVLQVVNLPIVERPVCKASTRIRITDNMFCAGFKVNDTKRGA  
 CEGDSGGPFVMSPFNRRWYQMGIVSWGEGCDRKGKGYFYTHVFRLLKRWIQKVIDQFG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9005\\_g09.zip](https://cdn.origene.com/chromatograms/mm9005_g09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010168

**ORF Size:** 1854 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\\_010168.3](#)

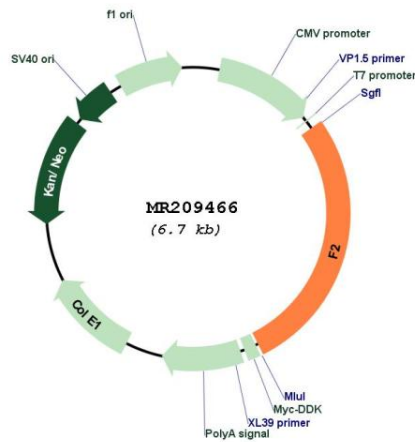
**RefSeq Size:** 1988 bp

**RefSeq ORF:** 1857 bp

**Locus ID:** 14061  
**UniProt ID:** [P19221](#)  
**Cytogenetics:** 2 50.63 cM  
**MW:** 70.7 kDa

**Gene Summary:** This gene encodes a vitamin K-dependent glycoprotein coagulation factor that plays an important role in the process of blood coagulation and hemostasis. The encoded protein is an inactive zymogen that undergoes enzymatic cleavage by the coagulation factor Xa to form an active serine protease that converts soluble fibrinogen to insoluble fibrin clot. Most of the mice lacking the encoded protein die at an embryonic stage due to defects in yolk sac vasculature, while the rare neonates succumb to hemorrhage on the first postnatal day. [provided by RefSeq, Apr 2015]

### Product images:



Circular map for MR209466