

## Product datasheet for **MC215931**

### **F7 (NM\_010172) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	F7 (NM_010172) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	F7
Synonyms:	A1132620; Cf7; F; FVII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC215931 representing NM\_010172  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTTCCACAGGCGCATGGGCTGCTGCTTCTCTGCTTTCTGCTCCAGCTCCAGGGACCTCTAGGGACTG  
 CAGTTTTTCATAACCCAGGAGGAAGCACATGGTGTCTACACAGGCAAAGGCGTGCCAACTCACTCCTGGA  
 GGAGCTTTGGCCCGGCTCTCTGGAGAGAGAGTGAATGAGGAACAGTGTCTTTGAGGAGGCCCGGGAG  
 ATCTTCAAGAGCCCTGAGAGGACCAAGCAGTTCTGGATTGTTTACAGTGATGGGACCAGTGTGCCTCGA  
 ATCCATGTCAGAACGGAGGTACCTGCCAGGATCATCTCAAGTCTTACGTCTGCTTCTGCCTCTAGACTT  
 TGAGGGTCCGAACTGTGAGAAAAGCAAGAATGAGCAGCTGATCTGTGCAAATGAAATGGTGACTGTGAC  
 CAGTACTGCAGGGACCATGTAGGGACCAAGCGTACCTGTAGCTGCATGAGGACTACACGCTACAGCCAG  
 ATGAGGTGTCCTGCAAACAAAAGTTGAGTACCCGTGTGGGAGAATACCTGTTGTAGAAAAAGAAACTC  
 CAGCAGCCGCAAGGCCGATTGTGGGAGGCAACGTGTGCCCAAAGGGGAGTGTCCATGGCAGGCTGTG  
 CTGAAAATCAATGGGTTATTGCTGTGTGGGGCCGCTCTGCTGGACGCCAGATGGATAGTGACCGCAGCCC  
 ACTGCTTCGATAATATCCGCTACTGGGGAAACATCACAGTGGTGTGGTGAACATGACTTCAGTGAGAA  
 GGATGGGGATGAGCAAGTACGACGGGTGACACAGGTTCATCATGCCCGACAAGTACATCCGCGGAAGATC  
 AACACGACATTGCCCTGCTCCGCCTTACCAGGCTGTGACCTTCACTGACTACGTGGTGGCCCTGTGTC  
 TGCTGAAAAGTCCTTCTCCGAGAACACCTAGCCAGAATCCGCTTCTCAAGGGTCAAGTGGCTGGGGCCA  
 GCTACTGGACCGTGGTCCACAGCCCTGGAACATGTCCATCGAGGTGCCCGGCTGATGACCCAGGAC  
 TGTCTGGAGCACGCAAGCACAGCTCTAACACCCCAAAATCACAGAGAACATGTTCTGCGCTGGCTACA  
 TGGATGGTACCAAGGACGCTGCAAGGGTGACAGCGGTGGCCACATGCCACGCACTACCATGGCACATG  
 GTATCTGACAGGTGTGGTCAGCTGGGGGAGGGCTGTGCAGCTATTGGTACATTGGGGGTGACACCAGG  
 GTCTCCAGTACATAGACTGGCTGGTCAGACACATGGACTCCAAGCTCCAGGTTGGGTTTTCCGACTCC  
 CACTACTGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_010172

**Insert Size:** 1341 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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: [BC061149](#), [AAH61149](#)

RefSeq Size: 1869 bp

RefSeq ORF: 1341 bp

Locus ID: 14068

UniProt ID: [P70375](#)

Cytogenetics: 8 5.73 cM

**Gene Summary:** This gene encodes a vitamin K-dependent serine protease that plays a critical role in the extrinsic pathway of blood coagulation. Upon contact with tissue factor III (TF III), the encoded protein forms an activated complex termed TF-FVIIa that initiates the coagulation cascade involving other coagulation factors, ultimately resulting in a fibrin clot. Complete lack of the encoded protein in mice results in in perinatal lethality due to bleeding from normal blood vessels. [provided by RefSeq, Apr 2015]