

## Product datasheet for **RN210297**

### **F7 (NM\_152846) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	F7 (NM_152846) Rat Untagged Clone
Tag:	Tag Free
Symbol:	F7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN210297 representing NM\_152846  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGTTCCACAGACTCACGGACTGCTGCTTCTCTACTTTCTGCTCCAGCTCCAGGGACCCCTAGGGGCTG  
TGGTTTTTCATAACCCAGGAGGAAGCACACGGTGTCTACACAGGCAAAGGCGTGCCAACTCACTCCTAGA  
GGAGCTTTGGTCTAGCTCCTGGAGAGGGAGTGAATGAAGAGCGGTGCTCCTTTGAGGAGGCCGAGAG  
ATCTTCAAGAGCCCTGAGAGAACCAAGCAGTTCTGGACTATTTACAGCGATGGCGACCAGTGTGCCTCGA  
ATCCATGTCAGAACGGGGTACCTGCCAGGATCACCTCAAGTCTTATGTCTGCTTCTGCCCCCTAGACTT  
TGAGGGCCGGAAGTGTGAGAAAAACAAGAATGAGCAGCTGATCTGTGCAAATGAAATGGTGACTGTGAC  
CAGTACTGCAGGGACCACGTAGGGACCAAGCGTACCTGTAGCTGTACGAGGACTACGTGCTGCAGCCAG  
ATGAGGTGCTCCTGCAAACAAAAGTTGAGTACCATGCGGGAGAATACCTGTTGTAGAAAAAGAACTT  
CAGCAGACCCCAAGGCCGATTGTGGGAGGCTATGTGTGCCCAAGGGGAGTGCCCATGGCAGGCTGTG  
CTGAAATTC AATGAGGCATTGCTGTGTGGGGCCGTCCTGCTGGACACCAGATGGATAGTAACTGCAGCCC  
ACTGCTTCGATAAATTCGGGAAATTGGTAAACATCACAGTGGTGTGGGTGAACACGACTTCAGTGAGAA  
GGAGGGGACTGAGCAAGTACGGCTGGTGGAAACAGGTATCATGCCCAACAAGTACACCCGCGGCAGGACT  
GACCATGACATCGCCCTGGTCCGCCTTACC CGCTGTAACTTCACTGACTACGTGGTACCTCTGTGTC  
TGCTTGAACGGGCCTTCTCCGAGAACACCTAGCCAGCATCCGCTTCTCGAGGGTCAGCGGCTGGGGCCA  
GCTACTGGACCGTGGTCCACAGCTCTGGAGCTCATGGTATCGAGGTGCCCGGCTGATGACCCAGGAC  
TGCTTGGAGCATGCCAACACAGTGCTAACACCCCAAGTACAGTGGAGGCCACACGCCACCCACTACCATGGCCTTG  
TGGACGGCACCAAGGACGCTGCAAGGGTGACAGTGGAGGCCACACGCCACCCACTACCATGGCCTTG  
GTATCTGACAGGTGTGGTACAGCTGGGGGAGGGCTGTGCAGCTATCGGCCACATCGGGGTGACACCAGG  
GTCTCCAGTACATAGACTGGCTGGTCAAATACATGGACTCCAAGCTCCGGGTTGGGATTTCTCGAGTCT  
CCCTACTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_152846

**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:** [NM\\_152846.1](#), [NP\\_690059.1](#)

RefSeq Size: 1341 bp

RefSeq ORF: 1341 bp

Locus ID: 260320

UniProt ID: [Q8K3U6](#)

Cytogenetics: 16q12.5

**Gene Summary:** Initiates the extrinsic pathway of blood coagulation. Serine protease that circulates in the blood in a zymogen form. Factor VII is converted to factor VIIa by factor Xa, factor XIIa, factor IXa, or thrombin by minor proteolysis. In the presence of tissue factor and calcium ions, factor VIIa then converts factor X to factor Xa by limited proteolysis. Factor VIIa will also convert factor IX to factor IXa in the presence of tissue factor and calcium (By similarity). [UniProtKB/Swiss-Prot Function]