

## Product datasheet for **RG233936**

### Factor VII (F7) (NM\_001267554) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Factor VII (F7) (NM\_001267554) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Factor VII  
**Synonyms:** SPCA  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG233936 representing NM\_001267554  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGTCTCCAGGCCCTCAGGCTCCTCTGCCTTCTGCTTGGGCTTCAGGGCTGCCTGGCTGCAGATGGGG  
 ACCAGTGTGCCTCAAGTCCATGCCAGAATGGGGGCTCCTGCAAGGACCAGCTCCAGTCTATATCTGCTT  
 CTGCCTCCCTGCCTTCGAGGGCCGGAACGTGAGACGCACAAGGATGACCAGCTGATCTGTGTAACGAG  
 AACGGCGGCTGTGAGCAGTACTGCAGTGACCACACGGGCACCAAGCGCTCCTGTCCGGTCCACGAGGGGT  
 ACTCTCTGCTGGCAGACGGGGTGTCTGCACACCACAGTTGAATATCCATGTGGAAAAATACCTATTCT  
 AGAAAAAAGAAATGCCAGCAAACCCCAAGGCCAATTGTGGGGGCAAGGTGTGCCCCAAAGGGGAGTGT  
 CCATGGCAGGTCTGTTGTTGGTGAATGGAGCTCAGTTGTGTGGGGGACCCTGATCAACACCATCTGGG  
 TGGTCTCCGCGGCCACTGTTTCGACAAAAATCAAGAACTGGAGGAACCTGATCGCGGTGCTGGGCGAGCA  
 CGACCTCAGCGAGCAGCAGCGGGATGAGCAGAGCCGGCGGGTGGCGCAGGTATCATATCCACGACGTAC  
 GTCCCGGGCACCACCAACCACGACATCGCGTGTCTCCGCTGCACCAGCCCGTGGTCTCACTGACCATG  
 TGGTGGCCCTCTGCCTGCCGAACGGACGTTCTCTGAGAGGACGCTGGCCTTCGTGCGCTTCTCATTGGT  
 CAGCGGCTGGGGCCAGCTGCTGGACCGTGGCGCCACGGCCCTGGAGCTCATGGTCTCAAGTGGCCCGG  
 CTGATGACCCAGGACTGCCTGCAGCAGTACGGAAGGTGGGAGACTCCCAAAATATCAGGAGTACATGT  
 TCTGTGCCGCTACTCGGATGGCAGCAAGGACTCCTGCAAGGGGACAGTGGAGGCCACATGCCACCCA  
 CTACCGGGGCACGTGGTACCTGACGGGCATCGTACGCTGGGGCCAGGGCTGCGCAACCGTGGGCCACTTT  
 GGGGTGTACACAGGGTCTCCAGTACATCGAGTGGCTGCAAAGCTCATGCGCTCAGAGCCACGCCAG  
 GAGTCCTCCTGCGAGCCCCATTCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**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\\_001267554.1](#), [NP\\_001254483.1](#)

**RefSeq Size:** 2892 bp

**RefSeq ORF:** 1149 bp

**Locus ID:** 2155

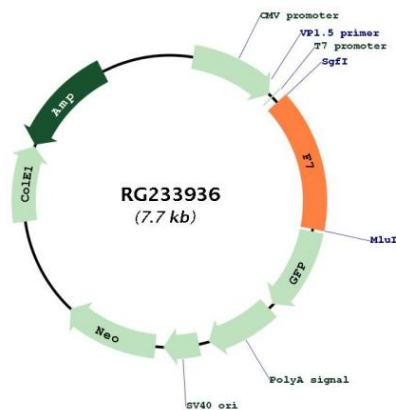
**Cytogenetics:** 13q34

**Protein Families:** Druggable Genome, Protease

**Protein Pathways:** Complement and coagulation cascades

**Gene Summary:** This gene encodes coagulation factor VII which is a vitamin K-dependent factor essential for hemostasis. This factor circulates in the blood in a zymogen form, and is converted to an active form by either factor IXa, factor Xa, factor XIIa, or thrombin by minor proteolysis. Upon activation of the factor VII, a heavy chain containing a catalytic domain and a light chain containing 2 EGF-like domains are generated, and two chains are held together by a disulfide bond. In the presence of factor III and calcium ions, the activated factor then further activates the coagulation cascade by converting factor IX to factor IXa and/or factor X to factor Xa. Defects in this gene can cause coagulopathy. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing to generate mature polypeptides. [provided by RefSeq, Aug 2015]

### Product images:



Circular map for RG233936