

Product datasheet for **RN205503**

F12 (NM_001014006) Rat Untagged Clone

Product data:

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|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | F12 (NM_001014006) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | F12 |
| Synonyms: | HAF |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >RN205503 representing NM_001014006
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGGCTCTGTGTTCTCTGGGTCTCTGCTGATGAGTCTGGACTTGACTTTTCGGCGCCACCGTGGA
 AGTCCAAGGAGTTCAAGGACGGAGCTGGCGATCCCTCTGTGGTTCTCACTGTGGACGGGAAGCTCTGCCA
 CTTTCCCTTTTCAGTACCACCGTCGCCTGTACCACAAATGCATCCACAAAGGACAGCCAGGCTCCAGGCC
 TGGTGTGCTACCACCCCAACTTTGACGAGGACCAGCAATGGGGATACTGCTTGGAGCCCAAGAAAGTGA
 AAGACCATTGCAGCAAACACAGCCCTGCCACAAAGGAGGGACGTGTGTCAACACCCCAACGGCCCGCA
 CTGTCTCTGCCCTGAACACCTCACCGGAAACATTGCCAGAGAGAGAAATGCTTTGAGTCTCAGCTCCTC
 AAGTTCTCCATGAGAATGAGATATGGTTTAGAACTGGCCAGGAGGTGTGGCCAGGTGCCAGTGCAAAG
 GTCCTCAGGCTGTTTGAAGCTGCTGACCAGTCAGGTTTGCAGGGTCAATCCGTGCCTTAATGGAGGCAC
 CTGCCCTCTCGTGGAGGACCACCGACTGTGCCACTGCCCTGCAGGCTATGCCGGACCTTTTTCGACTTA
 GACCTTAAGGCGACTTGCTACGAAGACAGGGGTCTCAGCTACCGGGCCAGGCTAAAACACTCTGTCCGG
 GTGCACCATGTCAGCGGTGGGCCTCGGAGGCCACCTACCGGAACATGACTGAGACGCAAGCTCTAAGCTG
 GGGCCTGGGCCACCACGCATTCTGCCGGAACCCAGATAATGACACACGTCCATGGTGTCTACGTCTGGAGT
 GGCGACAGGCTGAGCTGGGACTACTGCGACCTGGAACAGTGCCAGATGCCAACGCTCACATCTCCGGTTT
 CCCCTGAGAGTCACGACATGCTGAAGCCCCGGCCTCCCATATTGCAGATGCCTCAGTCCCGTCTCTGTC
 CGATGCACTAGACAACTCGACCCGTAATCAGAAATGTTGTGTCCAGGACCAGTACGGTGGTCTGCGGACAG
 AGGTTTCGCAAGCGACTGTCCTCGCTCAGGCGCGTGGTGGCGGACTAGTGGCTCTGCCTGGATCGCATC
 CCTACTCGCTGCACTGTACTGGGGCGACAGTCTCTGCGCAGGCAGTCTCATCGACCCCTGCTGGGTGCT
 GACCGCTGCTCACTGCTTGCAGAAACGGCCAGCGCCGAGGAACGACTGACAGTGGTACTTGGTCAAGATCGC
 CATAACCAGAGCTGCGAGAGGTGCCAGACTCTGGCTGTGCACTCCTACCGCCTTACAGAGGGCTTCTCTT
 CAAAAACCTACCAGCATGATTTGGCTCTGCTGCGCCTGCGGGGAGGAAAAACAGCTGCGCGATCTTGTC
 GCCTCATGTCCAGCCGTGTGTCTGCCAGCAGCGCGGCCACCCTCTGAGACAGTGTCTGCGAGGTG
 GCCGGCTGGGTGTCAGTTTCGAGGGGGCTGAAGAATACGCCACCTTTCTGCAGGAGGCACAGGTACCTT
 TCATCTCCCTGGATCGCTCCAGCTTAACGTGCACGGAGACGCCATCCTGCCTGGGATGCTTTGTGC
 TGGCTTCTTGAGGGAGGCGCCGATGCCTGTGAGGTGACTCCGGGGTCTCTGGTATGTGATGAAGGA
 GTTACAGAGCGTCAGCTACCCCTGCGAGGAGTCATCAGCTGGGGTCCGGCTGTGGTACCAGGAAACAGC
 CCGGGTCTACACTGACGTGGCCAACTACTGGATTGGATCCAGGAGCATACTGCTTTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2355_d09.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_001014006

Insert Size: 1812 bp

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| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| 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: | <ol style="list-style-type: none">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_001014006.1 , NP_001014028.1 |
| RefSeq Size: | 2128 bp |
| RefSeq ORF: | 1812 bp |
| Locus ID: | 306761 |
| UniProt ID: | D3ZTE0 |
| Cytogenetics: | 17p14 |
| Gene Summary: | Factor XII is a serum glycoprotein that participates in the initiation of blood coagulation, fibrinolysis, and the generation of bradykinin and angiotensin. Prekallikrein is cleaved by factor XII to form kallikrein, which then cleaves factor XII first to alpha-factor XIIa and then trypsin cleaves it to beta-factor XIIa. Alpha-factor XIIa activates factor XI to factor XIa (By similarity).[UniProtKB/Swiss-Prot Function] |