

Product datasheet for **RR205503**

F12 (NM_001014006) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR205503 representing NM_001014006
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGGCTCTGTTGTTCTGGGTCTCTGCTGATGAGTCTGGACTTGACTTTTCGGCGCCACCGTGG
 AGTCCAAGGAGTTCAAGGACGGAGCTGGCGATCCCTCTGTGGTTCTCACTGTGGACGGGAAGCTCTGCCA
 CTTTCCCTTTTTCAGTACCACCGTCGCTGTACCACAAATGCATCCACAAAGGACAGCCAGGCTCCAGGCC
 TGGTGTGCTACCACCCCAACTTTGACGAGGACCAGCAATGGGGATACTGCTTGGAGCCCAAGAAAGTGA
 AAGACCATTGCAGCAAACACAGCCCTGCCACAAAGGAGGGACGTGTGTCAACACCCCAACGGCCCGCA
 CTGTCTCTGCCCTGAACACCTCACCGGAAACATTGCCAGAGAGAGAAATGCTTTGAGTCTCAGCTCCTC
 AAGTTCTCCATGAGAATGAGATATGGTTTAGAACTGGCCAGGAGGTGTGGCCAGGTGCCAGTGCAAAG
 GTCCTCAGGCTGTTTGAAGCTGCTGACCAGTCAGGTTTGCAGGGTCAATCCGTGCCTTAATGGAGGCAC
 CTGCCCTCTCGTGGAGGACCACCGACTGTGCCACTGCCCTGCAGGCTATGCCGGACCTTTTTCGACTTA
 GACCTTAAGGCGACTTGCTACGAAGACAGGGGTCTCAGCTACCGGGCCAGGCTAAAACACTCTGTCCGG
 GTGCACCATGTCAGCGGTGGGCCTCGGAGGCCACCTACCGGAACATGACTGAGACGCAAGCTCTAAGCTG
 GGGCTGGGCCACCACGCATTCTGCCGGAACCCAGATAATGACACACGTCCATGGTGTCTACGTCTGGAGT
 GGCGACAGGCTGAGCTGGGACTACTGCGACCTGGAACAGTGCCAGATGCCAACGCTCACATCTCCGGTTT
 CCCCTGAGAGTCACGACATGCTGAAGCCCCGGCCTCCCATATTGCAGATGCCTCAGTCCCGTCTCTGTC
 CGATGCACTAGACAACTCGACCCGTAATCAGAAATGTTGTGTCCAGGACCAGTACGGTGGTCTGCGGACAG
 AGGTTTCGCAAGCGACTGCTCCTCGCTCAGGCGCGTGGTGGCGGACTAGTGGCTGCCTGGATCGCATC
 CCTACATCGCTGCACTGTACTGGGCGACAGCTTCTGCGCAGGCAGTCTCATCGACCCCTGCTGGGTGCT
 GACCGCTGCTCACTGCTTGCAGAAACGGCCAGCGCCCGAGGAACACTGACAGTGGTACTTGGTCAAGATCGC
 CATAACAGAGCTGCGAGAGGTGCCAGACTCTGGCTGTGCACTCCTACCGCTTACAGAGGGCTTCTCTT
 CAAAACCTACCAGCATGATTTGGCTCTGCTGCGCCTGCGGGGAGGAAAAACAGCTGCGCGATCTGTGTC
 GCCTCATGTCCAGCCGTGTGTCTGCCAGCAGCGCGCCACCCTCTGAGACAGTGTCTGCGAGGTG
 GCCGGTGGGTCATCAGTTCGAGGGGGCTGAAGAATACGCCACCTTTCTGCAGGAGGCACAGGTACCTT
 TCATCTCCCTGGATCGCTCCAGCTTAACGTGCACGGAGACGCCATCCTGCCTGGGATGCTTTGTGTC
 TGGCTTCTTGAGGGAGGCGCCGATGCCTGTGAGGCTGACTCCGGGGTCTCTGGTATGTGATGAAGGA
 GTTACAGAGCGTCAGCTACCCTGCGAGGAGTCATCAGCTGGGGTCCGGCTGTGGTGACCGGAACAAGC
 CCGGGTCTACACTGACGTGGCCAATTACTGGATTGGATCCAGGAGCATACTGCTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205503 representing NM_001014006
 Red=Cloning site Green=Tags(s)

MTALLFLGSLMSLDLTL SAPPWKSKEFKDGDPSVVL TVDGKLC HFPFYHRRLYHKCIHKGPGRSRP
 WCATTPNFDEDQWGYCLEPKVKVDHCSKHSPCHKGGTVCNTPNGPHCLCPEHL TGKHCQREKCFESQLL
 KFFHENEIWFRTGPGGVARCQCKGPQAVCKLL TSQVCRVNPCLNGGTCLLVEDHRLCHCPAGYAGPFCDL
 DLKATCYEDRGLSYRQAKTTL SGAPCQRWASEATYRNMETQALSWGLGHAFCRNPDNDTRPWCYVWS
 GDRLSWDYCDLEQCQMP TLTSPVSPESHMLKPRPPI LQMPQFPSLSDALDNSTRNQNVVSRSTSTVVCQG
 RFRKRLSSLRRVVGGLVALPGSHPIAALYWGDSFCAGSLIDPCWVLTAAHCLQKRPAPPEELTVVLGQDR
 HNQSCERCQTLAVHSYRLHEGFSSKTYQHDLALLRLRGRKNSCAILSPHVQPVLCPSSAAPPSETVLCV
 AGWGHQFEGAEYATFLQEAQVPIISLDRCSNNVHGDAILPGMLCAGFLEGGADACQDSSGGLVCDEG
 VTERQLTLRGVISWGS CGDRNKPGVYTDVANYLDWIQEHTAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001014006

ORF Size: 1809 bp

OTI Disclaimer: 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.

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).

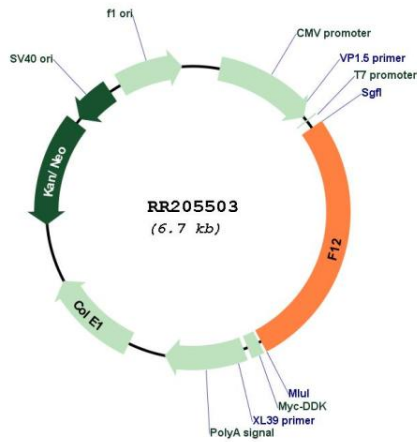
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_001014006.1](#), [NP_001014028.1](#)

RefSeq Size: 2128 bp
 RefSeq ORF: 1812 bp
 Locus ID: 306761
 UniProt ID: [D3ZTE0](#)
 Cytogenetics: 17p14
 MW: 66.7 kDa

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]

Product images:



Circular map for RR205503