

Product datasheet for **MR209276**

F12 (NM_021489) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	F12 (NM_021489) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	F12
Synonyms:	FX; FXII; HAF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209276 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACGGCTCTGTGTTCTGGGTCTCTGCTGATGAGTCTGGATCTGACTTTTCGGCTCCACCATGGA
 AAGACTCCAAGAAATTTAAGGACGCACCTGATGGGCCACAGTGGTTCTACTGTGGATGGGAGGCTCTG
 CCATTTTCCCTTTTCAGTACCACCGTCAGCTACACCACAAATGCATCCACAAAAGCGGCCAGGCTCCCGC
 CCCTGGTGTGCTACCACCCCAACTTTGATGAAGATCAGCAATGGGGATACTGCTTGAGCCCAAGAAAG
 TGAAAGACCATTGCAGCAAAACAACCCGTGCCACAAAGGAGGGACATGTATCAACACCCCAATGGGCC
 AACTGTCTCTGCCCTGAACACCTCACTGGAAACATTGCCAGAAAGAGAAATGCTTTGAGCCTCAGCTT
 CTCAAGTCTTCCACGAGAATGAGCTATGGTTTAGAACGGGGCCAGGAGGTGGCCAGGTGCGAGTGCA
 AAGTTTCTGAGGCTCACTGCAAGCCGGTGGCCAGCCAGGCTGCAGCATCAATCCGTGCCTTAATGGGG
 CAGCTGCCTCCTGTGGAGGACCACCACTGTGCCGTTGCCCTACAGGCTACACTGGATATTTTTGCGAC
 TTGGACCTTTGGGCGACCTGCTATGAAGCAGGGGGCTCAGCTACCGGGGCCAGGCTGGAACACGCAAT
 CGGGTGCGCCATGTCAGCGGTGGACCGTGGAGGCCACCTACCGGAACATGACTGAGAAGCAAGCGTAAG
 CTGGGGCTGGGCCACCACGCATTTTGC CGAACCCAGATAATGACACACGTCCATGGTGCCTTCTGTGG
 AGTGGCGACAGGCTGAGCTGGGACTATTGCGGCCTGGAGCAGTCCAGACGCCAACGTTTGCACCTCTAG
 TTGTCCCTGAGAGTCAGGAGGAGTCCCCGTCCCAGGCACCATCTCTGTCCATGCACCAATGACTCGAC
 CGATCATCAGACTTCTGTCCAAGACCAACACGATGGGCTGCGGACAGAGGTTCCGCAAGGGACTGTCC
 TCGTTCATGCGCGTGGTGGCGGACTAGTGGCTCTGCCGTTGGTGCACCCCTACATCGCTGCACTGTACT
 GGGGTAACAACCTCTGCGCGGCGACTCTCATCGCCCCCTGTTGGTGTGACCGGGCTCACTGCCTGCA
 GAATCGGCCAGCGCCCGAGGAACAGACTGAGTGGTACTTGGTCAAGATCGCCACAACCAGAGCTGCGAGTGG
 TGCCAGACTCTGGCTGTGCGCTCCTACCGCCTTACGAGGGCTTCTCCTCCATCACCTACCAGCAGGACT
 TGGCTCTGCTGCGCTGCAGGAAAGCAAAACACAGTTGCGCGATCCTGTACCTCACGTTACGCTGT
 GTGTCTACCCAGCGCGCGGCCACCCTCTGAGACAGTCTCTGCGAGGTGGCCGGTGGGGTCAACCAG
 TTCGAGGGGGCTGAAGAATACTCCACCTTCTGCAGGAGGCACAGGTTCCCTTTATCGCCCTGGATCGCT
 GCTCCAACCTAACGTGCACGGAGACGCCATTCTCCCTGGGATGCTTTGCGCTGGCTTCTTGAGGGGAGG
 CACCGATGCTGCCAGGGTACTCCGGGGCCCTCTGGTGTGTGAGGAAGGAAGTGCAGAACATCAGCTC
 ACCCTGCGCGGAGTCATCAGCTGGGCTCCGGCTGTGGTACCAGCAACAAGCCCGAGTCTACACAGACG
 TGCCAACTACCTGGCTGGATCCAGAAGCATATTGCTTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209276 protein sequence
 Red=Cloning site Green=Tags(s)

MTALLFLGSLMSLDLTL SAPPWKD SKKFKDAPDGPTVVLTV DGRLCHFPFQYHRQLHHKCIHKRRPGSR
 PWCATTPNFDEDQWGYCLEPKVKDHCSKHNPKHGGTCINTPNGPHCLCPEHLTGKHCQKEKCFEPQL
 LKFFHENELWFRTGPGGVARCECKGSEAHCKPVASQACSINPCLNGGSCLLVEDHPLCRCPTGYTYGFC
 LDLWATCYEGRGLSYRQAGTTQSGAPQRWTV EATYRNMTEKQALSWGLGHAF CRNPNDTRPWC FVW
 SGRDLWDYCGLEQCQTPTFAPLVVPESQEE SPSQAPSL SHAPNDSTDHQTSLSKTNTMGGCQRFRKGLS
 SFMRVVGGLVALPGSHPIAALYWGNNFCAGSLIAPCWVLTAAHCLQNRPAPEELTVVLGQDRHNQSC
 EQTLAVRSYRLHEGFSSITYQHDLALLRLQESKTN SCAILSPHVQPVCLPSGAAPPSETVLCVAGWGHQ
 FEGAEYSTFLQEAQVPFIALDRCSNSNVHGDAILPGMLCAGFLEGGTDACQGDSSGGLVCEEGTAEHQ
 LTRGVISWGS GDRNKPGVYTDVANYLAWIQHIAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_021489

ORF Size: 1794 bp

OTI Disclaimer: 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_021489.3](#)

RefSeq Size: 1961 bp

RefSeq ORF: 1794 bp

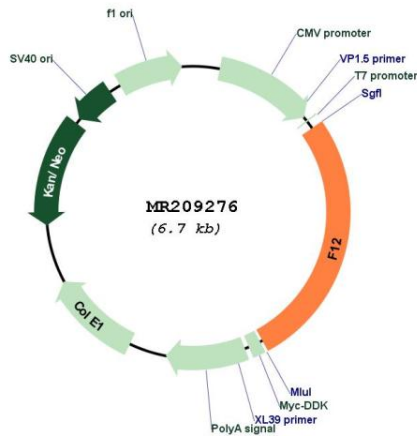
Locus ID: 58992

UniProt ID: [Q80YC5](#)

Cytogenetics: 13 B1
MW: 65.7 kDa

Gene Summary: This gene encodes a glycoprotein coagulation factor that plays an important role in the intrinsic pathway of blood coagulation and hemostasis. The encoded protein is an inactive zymogen that is autoactivated upon contact with negatively charged surfaces or misfolded protein aggregates. Mice lacking the encoded protein have a severe defect in forming stable fibrin clots. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MR209276