

Product datasheet for **MC216596**

F10 (NM_007972) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	F10 (NM_007972) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	F10
Synonyms:	A11947; Cf10; fX
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC216596 representing NM_007972
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGAGCCCGGTGCAACTCAGCCTGCTCTGTGTGCTCTGGCCAGCCTCCTGCTCCCTGGAAAGGTG
TGTTTATTAACCGGGAACGTGCCAACAATGTCTGGCGAGGACTCGGAGGGCAAACCTCATTITTTGAAGA
GTTCAAGAAAGGAAATCTGGAAAGAGAGTGTATGGAAGAAATTTGTTCTTATGAAGAGGTCCGTGAAATC
TTCGAGGACGACGAGAAGACGAAAGAATACTGGACCAAATATAAAGACGGCGACCAGTGTAAAGCAGCC
CTTGCCAGAACCAAGGAGCGTGTGAGATGGCATCGGGGGTTACACGTGCACCTGCTCGGAGGGATTGA
AGGCAAAAACCTGTGAGCTCTTTGTTGCGAAACTCTGCCGCTAGACAACGGAGACTGTGACCAGTTCTGC
AGAGAAGAGCAGAACTCAGTGGTGTGCTCCTGCGCCAGCGGTTACTTCTGGGTAATGATGGCAAGTCTT
GCATCTCCACAGCTCCCTCCCCTGTGGAAAAATCACTACAGGACGTAGGAAGAGGTCTGTGCCCTAAA
CACCAGCGACAGTGTGAGCTTGACCTTGAAGACGCCCTGCTTGTATGAGGATTTCTGTCCCCTACGGAGAAT
CCTATTGAACTGCTCAACCTCAACGAGACACAGCCTGAGAGGAGCAGCGATGACCTTGTTTCGGATTGTGG
GTGGCCCGGAATGCAAGGATGGAGAATGTCCCTGGCAGGCTCTGCTCATTAAACGAAGACAATGAAGGGTT
CTGTGGGGGACCATCTTGAATGAGTTCTACATCCTCACTGCTGCCCACTGTCTCCATCAGGCCAGGCGCA
TTCAAGGTGAGGGTAGGTGATCGGAACACAGAGAAGGAAGAAGGCAACGAGATGGTGCACGAGGTGGACG
TGGTCATTAAGCACAACAAGTTTCAGAGGGACACCTACGACTATGATATCGCCGTGCTGAGGCTGAAGAC
TCCCATCACGTTCCGGATGAACGTGGCCCTGCCTGCCTGCCTCAGAAAGACTGGCCGAGTCCACACTG
ATGACACAGAAGACGGGCATCGTGAGCGGTTTGGACGCACGCATGAGAAGGGCCGCCAGTCCGAACATCC
TGAAGATGCTGGAGGTACCCTACGTGGATCGCAACACCTGCAAGCTCTCCACCAGTTCAGCATCACACA
GAATATGTTCTGTGCGGGCTATGAGGCCAAGTTAGAGGATGCCTGCCAGGGGGACAGTGGTGGCCCCAT
GTCACACGGTTCAAAAATACCTACTATGTGACCGCATTGTCAGCTGGGAGAGGGGTGTCAAGGAAAG
GGAAATATGGCATCTACACAAAGGTCACGACCTTCTCAAGTGGATTGACAGGTCCATGAAAGCCAGGGT
GGGACCCACAGCCGAGACCCCAAGGACAGCAGGTCCGCCCAAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_007972

Insert Size: 1446 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_007972.4](#), [NP_031998.3](#)

RefSeq Size: 2503 bp

RefSeq ORF: 1446 bp

Locus ID: 14058

UniProt ID: [O88947](#)

Cytogenetics: 8 5.73 cM

Gene Summary: This gene encodes factor X, a component of both the intrinsic and extrinsic blood coagulation pathways. The encoded protein is a zymogen that undergoes further processing in a vitamin K-dependent manner to generate mature factor X, a heterodimer comprised of disulfide-linked heavy and light chains. The mature factor X is proteolytically activated either by factor IXa (intrinsic pathway) or factor VIIa (extrinsic pathway) to form factor Xa serine endopeptidase. Activated factor Xa catalyzes the conversion of prothrombin to thrombin. A complete lack of the encoded protein is fatal to mice. A severe deficiency of the encoded protein in mice causes age-dependent iron deposition and cardiac fibrosis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2015]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.