

Product datasheet for **MC228005**

F10 (NM_001242368) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	F10 (NM_001242368) 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: >MC228005 representing NM_001242368
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTGTACAGCCACTGCCGTCCTTGACCACACCATGGGGAGCCCGGTGCAACTCAGCCTGCTCTGTG
 TTGTCCTGGCCAGCCTCCTGCTCCCTGGGAAAGGTGTGTTTATTAAACCGGAACGTGCCAACAAATGTCCT
 GGCGAGGACTCGGAGGGCAAACCTATTTTTGAAGAGTTCAAGAAAGGAAATCTGAAAGAGAGTGTATG
 GAAGAAATTTGTTCTTATGAAGAGGTCCGTGAAATCTCGAGGACGACGAGAAGACGAAAGAATACTGGA
 CCAAATATAAAGACGGCGACCAGTGTGAAAGCAGCCCTTGCCAGAACCAAGGAGCGTGTGAGATGGCAT
 CGGGGGTTACACGTGCACCTGCTCGGAGGGATTGAAGGCAAAAACCTGTGAGCTCTTTGTTGCGAAAAC
 TGCCGCCTAGACAACGGAGACTGTGACCAGTCTGCAGAGAAGAGCAGAAGTCACTGAGTGTGCTCCTGCG
 CCAGCGGTTACTTCTGGGTAATGATGGCAAGTCTTGCATCTCCACAGCTCCCTCCCCTGTGAAAAAT
 CACTACAGGACGTAGGAAGAGGTCTGTGCCCTAACACCAGCGACAGTGTGAGCTTACCTTGAAGACGCC
 CTGCTTGTATGAGGATTTCTGTCCCTACGGAGAATCCTATTGAACTGCTCAACCTCAACGAGACACAGC
 CTGAGAGGAGCAGCGATGACCTTGTTCGATTGTGGGTGGCCGGGAATGCAAGGATGGAGAATGTCCCTG
 GCAGGCTCTGCTCATTAAACGAAGACAATGAAGGGTTCTGTGGGGCACCATCTTGAATGAGTTCTACATC
 CTCACTGCTGCCACTGTCTCCATCAGGCCAGGCGATTCAAGGTGAGGGTGGTGTGATCGGAACACAGAGA
 AGGAAGAAGGCAACGAGATGGTGCACGAGGTGGACGTGGTTCATTAAGCACAACAAGTTTCAGAGGGACAC
 CTACGACTATGATATCGCCGTGTGAGGCTGAAGACTCCCATCACGTTCCGGATGAACGTGGCCCTGCC
 TGCCCTGCCTCAGAAAGACTGGCCGAGTCCACACTGATGACACAGAAGACGGGCATCGTGTGAGCGGGTTG
 GACGCACGATGAGAAGGGCCCGCCAGTCCGAACATCCTGAAGATGCTGGAGGTACCTACGTGGATCGCAA
 CACCTGCAAGCTCTCCACCAGTTCAGCATCACACAGAATATGTTCTGTGCGGGCTATGAGGCCAAGTTA
 GAGGATGCCTGCCAGGGGACAGTGGTGGCCCATGTACACGTTCAAAAATACCTACTATGTGACCG
 GCATTGTGAGCTGGGAGAGGGGTGTGCAAGGAAAGGAAATATGGCATCTACACAAAGGTACGACCTT
 CCTCAAGTGGATTGACAGGTCCATGAAAGCCAGGGTGGGACCCACAGCCGAGACCCCAAGGACAGCAGGT
 CCGCCCAAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001242368
- Insert Size:** 1482 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001242368.1](#), [NP_001229297.1](#)

RefSeq Size: 2693 bp

RefSeq ORF: 1482 bp

Locus ID: 14058

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 (1) represents the longer transcript and encodes the longer 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.