

Product datasheet for **MR207705**

F10 (NM_007972) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR207705 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGAGCCCGGTGCAACTCAGCCTGCTCTGTGTGCTCGCCAGCCTCCTGCTCCCTGGAAAGGTG
 TGTTTATTAACCGGGAAGTGCCAAACAATGTCTGGCGAGGACTCGGAGGGCAAACCTCATTITTTGAAGA
 GTTCAAGAAAGGAAATCTGGAAAGAGAGTGTATGGAAGAAATTTGTTCTTATGAAGAGGTCCGTGAAATC
 TTCGAGGACGACGAGAAGACGAAAGAATACTGGACCAAATATAAAGACGGCGACCAGTGTGAAAGCAGCC
 CTTGCCAGAACCAAGGAGCGTGTGAGATGGCATCGGGGGTTACACGTGCACCTGCTCGGAGGGATTGA
 AGGAAAAAAGTGTGAGCTCTTTGTTGCGAAACTCTGCCGCTAGACAACGGAGACTGTGACCAGTTCTGC
 AGAGAAGAGCAGAAGTCAAGTGTGCTCCTGCGCCAGCGGTTACTTCTGGGTAATGATGGCAAGTCTCT
 GCATCTCCACAGCTCCCTTCCCCTGTGAAAAATCACTACAGGACGTAGGAAGAGGTCTGTGGCCCTAAA
 CACCAGCGACAGTGTGACTTGAAGACGCCCTGCTTGTATGAGGATTTCTGTCCCCTACGGAGAAT
 CCTATTGAACTGCTCAACCTCAACGAGACACAGCCTGAGAGGAGCAGCGATGACCTTGTTCGGATTGTGG
 GTGGCCCGGAATGCAAGGATGGAGAATGTCCTTGGCAGGCTCTGCTCGTTAACGAAGACAATGAAGGGTT
 CTGTGGGGGACCATCTTGAATGAGTTCTACATCCTCACTGCTGCCACTGTCTCCATCAGGCCAGGCGA
 TTCAAGGTGAGGGTAGGTGATCGGAACACAGAGAAGGAAGAAGGCAACGAGATGGTGCACGAGGTGGACG
 TGGTCATTAAGCACAACAAGTTTCAGAGGGACACCTACGACTATGATATCGCCGTGCTGAGGCTGAAGAC
 TCCCATCACGTTCCGGATGAACGTGGCCCTGCCTGCCTGCCTCAGAAAGACTGGGCCGAGTCCACACTG
 ATGACACAGAAGACGGGCATCGTGTGAGCGGTTTGGACGCACGCATGAGAAGGGCCGCCAGTCCGAACATCC
 TGAAGATGCTGGAGGTACCCTACGTGGATCGCAACACCTGCAAGCTCTCCACCAGCTTCAGCATCACCA
 GAATATGTTCTGTGCGGGCTATGAGGCCAAGTTAGAGGATGCCTGCCAGGGGGACAGTGGTGGCCCCCAT
 GTCACACGGTTCAAAAACACCTACTATGTGACCGCATTGTGAGTGGGGAGAGGGGTGTGCAAGGAAAG
 GAAATATGGCATCTACACAAAGGTCACGACCTTCTCAAGTGGATTGACAGGTCCATGAAAGCCAGGGT
 GGGACCCACAGCCGAGACCCCAAGGACAGCAGGTCCGCCCAAT

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207705 protein sequence
 Red=Cloning site Green=Tags(s)

MGSPVQLSLLCVVLASLLLPGKGVFINRERANNVLARTRRANSFFEEFKGNLERECMEEICSYEEVREI
 FEDDEKTKEYWTKYKDGQCESSPCQNQACRDIIGYTCTCSEGFEGKNCELFVRKLCRLDNGDCDQFC
 REEQNSVVCSCASGYFLGNDGKSCISTAPFPCGKITTGRRKRVSVALNTSDSELDLEDALLEDLFLSPTEN
 PIELLNINLNETQPERSSDDLVRIVGGRECKDGECPWQALLVNEDNEGFCGGTILNEFYILTAACHLHQARR
 FKVRVGDNRNTEKEEGNEMVHEVDVVIKHNKFQRDTYDYDIAVLRKTPITFRMNVAPACLPOKDWAE STL
 MTQKTGIVSGFGRTHEKGRQSNILKMLEVPYVDRNTCKLSTSFITQNMFCAGYEAKLEDACQDGS GPPH
 VTRFKNTYVVTGIVSWGEGCARKGKYGIYTKVTTFLKWIDRSMKARVGPTAETPRTAGPPN

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_007972

ORF Size: 1446 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_007972.2](#)
RefSeq Size: 2503 bp

RefSeq ORF: 1446 bp

Locus ID: 14058

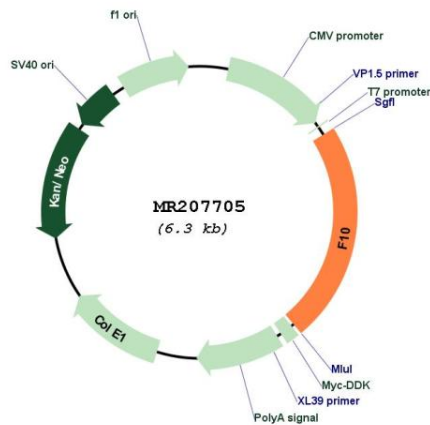
UniProt ID: [O88947](#)

Cytogenetics: 8 5.73 cM

MW: 54 kDa

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]

Product images:



Circular map for MR207705