

Product datasheet for **MC221177**

F13a1 (NM_001166391) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	F13a1 (NM_001166391) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	F13a1
Synonyms:	1200014I03Rik; AI462306; F13a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC221177 representing NM_001166391
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGATACTCCAGCAAGCACCTTTGGGGGAGGCGAGCAGTCCCGCCAATAACTCCAATGCTGCAG
 AAGTGGACCTCCCAACTGAGGAGCTACAAGGCCTGGTGCCAAGGGGTGTCAACCTGAAAGATTACCTGAA
 TGTCCACAGCTGTTACCTGTTCAAGGAGAGATGGGACAGTAACAAGATTGATCACCACACAGACAATAT
 GACAACAATAAGTTGATTGTCCGAGAGGGCAGACCTTCTACATCCAGATTGACTTCAACCGTCCCTATG
 ACCCCAGGAAGGATCTTTCAGAGTGGAAATGTGATTGGTGCCTACCCTCAGGAGAACAAGGGCACCTA
 CATCCCTGTGCCTGTAGTAAAGAGCTGCAAGCGGAAAGTGGGGAGCCAAGGTTATCATGAATGAGGAC
 CGGTGGTGGCAGCTTCCGTTCACTTCTCCGGAATGCATTGTGGGAAATTCCGCATGTATGTTGCAG
 TCTGGACTCCCTATGGCATCCTGCGTACTCGAAGAGACCCAGAAACAGACACATATATTCTTTCAACCC
 TTGGTGTGAAGAGGACGCTGTGTATCTGGATGATGAGAAGGAAAGAGAAGAGTACGTCCTGAATGACATT
 GGAGTGATATTTTATGGGGACTTCAAAGACATCAAGAGCAGAAGCTGGAGCTATGGCCAGTTCGAAGACG
 GCATCCTGGATACTTGCTTGTATGTGATGGACAAAGCTGAGATGGACCTTCTGGCAGAGGCAACCCCAT
 CAAAGTCAGCCGAGTTGGATCAGCAATGGTGAATGCCAAGGATGATGAAGGTGTTCTTGTGGATCATGG
 GACAATGTCTATGCCTACGGCATCCCTCCATCAGCCTGGACAGGAAGTGTGACATTCTACTAGAATACA
 GAAGCTCGGAAACACCAGTCCGATATGGCCAGTGTGGGTTTTGCTGGTGTCTTAAACACATTTTAAAG
 ATGCCTTGGAAATCCCTGCACGAGTACCTACCAATTACTTCTCGGCCACGACAATGATGCCAATCTGCAA
 ATGGACATCTTCTGGAAGAAGATGGGAATGTGAGCTCCAAACTCACAAGGATTCGGTGTGGAAGTACC
 ACTGTGGAACGAAGCGTGGATGACAAGGCCTGATCTTCTGTTGGATTGGAGGCTGGCAAGCTGTGGA
 CAGCACACCCAGGAAAACAGTGTGATGACCGCTGTGGCCCTGCCTCTGTCCAAGCCGTTAAGCAT
 GGCCATGTCTGCTTCCAGTTTGTGTCGCCGTTTGTGTTTGCAGAGGTCAACAGTGTCTTGTGTTACATCA
 CAGCTAAGCAAGATGGCACTCACGTGGTGAAGCCGTGGATGCCACCCATATCGGGAAGCTAATTGTGAC
 CAAGCAAATTGGAGGAGATGGCATGCAGGATATCACGGTACTTACAAATTTCAAGAAGGCCAAGAAGAA
 GAGAGACTAGCCCTTGAAGTCTGCTGTATGGAGCCAAGAAGACCCTCAACACTGAAGGTGTTGTCA
 AATCAAGTCTGATGTGACCATGAAGTTTGTGTTGAAAATGCTGTGCTGGGAAAGGACTTCAAAGTGAC
 TATCACCTTCCAGAACAATAGCTCCAATCTGTACACCATCCTGGCCTATCTTTCTGGCAACATCACCTTC
 TACTGGGGTATCCAAGAAAGAGTTCAAGAAGGAGTCCCTTGAAGAGACGCTGGATCCCTTTCTCCTCCA
 AGAAAAAGGAGGTGCTGGTCCAGAGCGGGCAGTACATGAGCCACCTTCTAGAACAGGGCTTCTTGCACTT
 CTTGCTACGGCACGCATCAACGAGTCCAGGGATGTCCTGGCCAAACAAAAGTCCATAATACTGACTATC
 CCCAAGATCACCATCAAGGTCCGAGGTGCTGCCATGGTTGGCTCTGATATGGTTGTGACTGTTGAGTTCA
 CTAATCCTTTAAAGAAACACTACAAAATGTCTGGATTCAATTTGGATGGTCTGGAGTGTGAGACCCAA
 GAGAAAGGTGTTCCGTGAAATCCGGCCCAACACCACGGTGCAGTGGGAAGAAGTCTGTCCGCCTTGGGTC
 TCTGGCCATCGGAAGCTGATTGCCAGCATGACCAGTACTCCCTGAGACATGTGTATGGAGAGCTGGATC
 TTCAGATTCAAAGACGACCTACTAT**GTA**A

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001166391

Insert Size: 2199 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:	<ol style="list-style-type: none">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:	<u>NM_001166391.1, NP_001159863.1</u>
RefSeq Size:	3854 bp
RefSeq ORF:	2199 bp
Locus ID:	74145
UniProt ID:	<u>Q8BH61</u>
Cytogenetics:	13 A3.3
Gene Summary:	<p>This gene encodes subunit A of the coagulation factor XIII that catalyzes the final step of the blood coagulation pathway. The encoded protein associates with subunit B to form a heterotetrameric proenzyme that undergoes thrombin-mediated proteolysis to generate active factor XIIIa. The transglutaminase activity of factor XIIIa is required for the calcium-dependent crosslinking of fibrin, leading to the formation of a clot. Mice lacking the encoded protein display impaired reproduction and reduced survival due to bleeding episodes, hemothorax, hemoperitoneum and subcutaneous hemorrhage. Additionally, mice lacking the encoded protein exhibit impaired wound healing and inadequate healing of myocardial infarction. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein.</p>