

## Product datasheet for **MC221176**

### **F13a1 (NM\_028784) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	F13a1 (NM_028784) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	F13a1
Synonyms:	1200014I03Rik; AI462306; F13a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221176 representing NM\_028784  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCAGATACTCCAGCAAGCACCTTTGGGGGAGGCGAGCAGTCCCGCCAATAACTCCAATGCTGCAG  
 AAGTGGACCTCCCAACTGAGGAGCTACAAGGCCTGGTGCCAAGGGGTGTCAACCTGAAAGATTACCTGAA  
 TGTCCACAGCTGTTACCTGTTCAAGGAGAGATGGGACAGTAACAAGATTGATCACCACACAGACAATAT  
 GACAACAATAAGTTGATTGTCCGCAGAGGGCAGACCTTCTACATCCAGATTGACTTCAACCGTCCCTATG  
 ACCCCAGGAAGGATCTTTCAGAGTGGAAATGTGATTGGTGCCTACCCTCAGGAGAACAAGGGCACCTA  
 CATCCCTGTGCCTGTAGTAAAGAGCTGCAAGCGGAAAGTGGGGAGCCAAGGTTATCATGAATGAGGAC  
 CGGTGGTGGCAGCTTCCGTTCACTTCTCCGGAATGCATTGTGGGAAATTCCGCATGTATGTTGCAG  
 TCTGGACTCCCTATGGCATCCTGCGTACTCGAAGAGACCCAGAAACAGACACATATATTCTTTCAACCC  
 TTGGTGTGAAGAGGACGCTGTGTATCTGGATGATGAGAAGGAAAGAGAAGAGTACGTCCTGAATGACATT  
 GGAGTGATATTTTATGGGGACTTCAAAGACATCAAGAGCAGAAGCTGGAGCTATGGCCAGTTCGAAGACG  
 GCATCCTGGATACTTGCTTGTATGTGATGGACAAAGCTGAGATGGACCTTCTGGCAGAGGCAACCCCAT  
 CAAAGTCAGCCGAGTTGGATCAGCAATGGTGAATGCCAAGGATGATGAAGGTGTTCTTGTGGATCATGG  
 GACAATGTCTATGCCTACGGCATCCCTCCATCAGCCTGGACAGGAAGTGTGACATTCTACTAGAATACA  
 GAAGCTCGGAAACACCAGTCCGATATGGCCAGTGTGGGTTTTTGGTGGTGTCTTAAACACATTTTAAAG  
 ATGCCTTGGAAATCCCTGCACGAGTACCTACCAATTACTTCTCGGCCACGACAATGATGCCAATCTGCAA  
 ATGGACATCTTCTGGAAGAAGATGGGAATGTGAGCTCCAAACTCACAAGGATTCGGTGTGGAAGTACC  
 ACTGTGGAACGAAGCGTGGATGACAAGGCCTGATCTTCTGTTGGATTGGAGGCTGGCAAGCTGTGGA  
 CAGCACACCCAGGAAAACAGTGTGATGGCATGTACCGCTGTGGCCCTGCCTCTGTCCAAGCCGTTAAGCAT  
 GGCCATGTCTGCTTCCAGTTTGTATGCCCGTTTGTGTTTGCAGAGGTCAACAGTGTCTTGTGTTACATCA  
 CAGCTAAGCAAGATGGCACTCACGTGGTGAAGCCGTGGATGCCACCCATATCGGGAAGCTAATTGTGAC  
 CAAGCAAATTGGAGGAGATGGCATGCAGGATATCACGGATACTTACAAATTTCAAGAAGGCCAAGAAGAA  
 GAGAGACTAGCCCTTGAAGTCTGCTGTATGAGGCAAGAAGACCCTCAACTGAAGGTGTTGTCA  
 AATCAAGTCTGATGTGACCATGAAGTTTGTATGTGAAAATGCTGTGCTGGGAAAGGACTCAAAGTGC  
 TATCACCTTCCAGAACAATAGTCCAATCTGTACACCATCCTGGCCTATCTTTCTGGCAACATCACCTTC  
 TACTGGGGTATCCAAGAAAGAGTTCAAGAAGGAGTCCCTTGAAGAGACGCTGGATCCCTTTCTCCCA  
 AGAAAAAGGAGGTGCTGGTCCAGAGCGGGCAGTACATGAGCCACCTTCTAGAACAGGGCTCTTGCACCT  
 CTTGCTACGGCACGCATCAACGAGTCCAGGGATGTCCTGGCCAAACAAAAGTCCATAATACTGACTATC  
 CCCAAGATCACCATCAAGGTCCGAGGTGCTGCCATGGTTGGCTCTGATATGGTTGTGACTGTTGAGTTCA  
 CTAATCCTTTAAAGAAACACTACAAAATGTCTGGATTCAATTTGGATGGTCTGGAGTGTGAGACCCAA  
 GAGAAAGTGTTCGTTGAAATCCGGCCCAACACCACGGTGCAGTGGGAAGAAGTCTGTCCGCCTTGGGTC  
 TCTGGCCATCGGAAGCTGATTGCCAGCATGACCAGTACTCCCTGAGACATGTGTATGGAGAGCTGGATC  
 TTCAGATTCAAAGACGACCTACTAT**GTA**A

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_028784

**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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_028784.3</a></u> , <u><a href="#">NP_083060.2</a></u>
<b>RefSeq Size:</b>	3879 bp
<b>RefSeq ORF:</b>	2199 bp
<b>Locus ID:</b>	74145
<b>UniProt ID:</b>	<u><a href="#">Q8BH61</a></u>
<b>Cytogenetics:</b>	13 A3.3
<b>Gene Summary:</b>	<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 (1) represents the longer transcript. Variants 1 and 2 encode the same protein.</p>