

Product datasheet for **MC225213**

F5 (NM_007976) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: F5 (NM_007976) Mouse Untagged Clone
Tag: Tag Free
Symbol: F5
Synonyms: A1173222; Cf-5; Cf5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225213 representing NM_007976
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTCCTAGTCTGCCCGTGCTTCTTCTCCTGGTGGTCTGTTGGAACCCGCTGGGCGGGCTGGGGCAGCC
ACCAGGCAGAGGGCCGCGCAACTAAGGCAGTTCTATGTGGCAGCTCAGGGGATCCTCTGGAATATCATCC
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AGAGTTTGTCTTACTCTTCATGGTCTTTGATGAGAAGAAGAGCTGGTACTATGAAAAGTCCAAGGGGTCA
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TGCCCGGCTGAGAAATGTACGAGCAAGAGTGGGTGAGGCTACACCTGCTGAACATGGGCGCTCCCGAGA
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ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:

SgfI-MluI

ACCN:

NM_007976

Insert Size:

6552 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_007976.3](#), [NP_032002.1](#)

RefSeq Size: 7433 bp

RefSeq ORF: 6552 bp

Locus ID: 14067

UniProt ID: [O88783](#)

Cytogenetics: 1 71.46 cM

Gene Summary: This gene encodes a glycoprotein coagulation factor that plays a critical role in the process of blood coagulation and hemostasis. The encoded protein is activated by thrombin, to generate a heterodimer containing heavy and light chains held together by calcium ions. About half of the mice lacking the encoded protein die at an embryonic stage possible due to abnormal yolk-sac vasculature while the remaining animals succumbed to massive hemorrhage immediately after birth. A point mutation in this gene has been shown to cause disseminated intravascular thrombosis in the perinatal period, resulting in frequent deaths of newborn mice. [provided by RefSeq, Apr 2015]