

## Product datasheet for MR225167

### Cfd (NM\_013459) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cfd (NM\_013459) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cfd  
**Synonyms:** A; Adn; DF  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR225167 representing NM\_013459  
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCACAGCTCCGTGTAATTCGTGGCTCTGGTGATCCTGGGAGCGGCTGTATGTGCAGCACAGCCCCGAG  
 GCCGGATTCTGGGTGGCCAGGAGGCCGAGCCCATGCTCGGCCCTACATGGCTTCCGTGCAAGTGAACGG  
 CACACACGTGTGCGGTGGCACCCTGCTGGACGAGCAGTGGGTGCTCAGTGTGCACACTGCATGGATGGA  
 GTGACGGATGACGACTCTGTGCAGGTGCTCCTGGGTGCCACTCCCTGTCCGCCCTGAACCCTACAAGC  
 GATGGTATGATGTGCAGAGTGTAGTGCCTACCCGGGCAGCCGACCTGACAGCCTTGAGGACGACCTCAT  
 TCTTTTTAAGCTATCCAGAATGCCTCGTTGGGTCCCCACGTGAGACCCCTACCCTTGAATACGAGGAC  
 AAAGAAGTGAACCCGGCAGCTCTGCGACGTGGCTGGTTGGGGTGTGGTCAACCATGCAGGACGCAGGC  
 CTGATGTCCTGCATCAACTCAGAGTGTCAATCATGAACCGGACAACCTGCAATCTGCGCACGTACCATGA  
 CGGGGTAGTACCATTAACATGATGTGTGCAGAGAGCAACCGCAGGGACACTTGCAGGGGAGACTCCGGC  
 AGCCCTTAGTGTGCGGGGATGCAGTGAAGGTGTGGTTACGTGGGGCTCTCGCTGTGGCAATGGCA  
 AAAAGCCGGGCGTCTATACCCGAGTGTATCCTACCGGATGTGGATCGAAAACATCAAAATGGTAAAT  
 GACATCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI



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Cloning Scheme:



ACCN: NM\_013459

ORF Size: 777 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](mailto: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](#)

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\\_013459.4](#)

**RefSeq Size:** 926 bp

**RefSeq ORF:** 780 bp

**Locus ID:** 11537

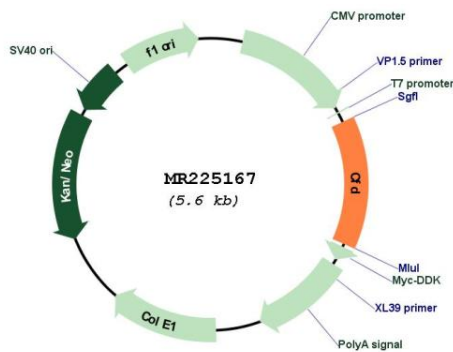
**UniProt ID:** [P03953](#)

**Cytogenetics:** 10 39.72 cM

**MW:** 28.5 kDa

**Gene Summary:** This gene encodes a serine protease that plays an important role in the alternative pathway of complement activation for pathogen recognition and elimination. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional enzyme that in turn cleaves factor B in the complement pathway. This gene is expressed in adipocytes and the mature enzyme is secreted into the bloodstream. Mice lacking the encoded product cannot initiate alternative pathway of complement activation. [provided by RefSeq, Jul 2016]

### Product images:



Circular map for MR225167