

Product datasheet for **MC224056**

Cfh (NM_009888) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cfh (NM_009888) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cfh
Synonyms:	Mud-1; NOM; Sas-1; Sas1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224056 representing NM_009888 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTACAGCACAGATTTCTCTTGGAGTCAGTTGGTCCCAGAAAGATCCAAATTATGAGACTGTCAGCAA
GAATTATTTGGCTTATATTATGGACTGTTTGTGCAGCAGAAGATTGTAAGGTCTCTCCAAGAGAAAA
TTCAGAAATCTCTCAGGCTCGTGGTCAGAACAATATCCAGAAGGCCACCCAGGCTACCTACAAATGC
CGCCCTGGATACCGAACACTTGGCACTATTGTAAGATGCAAGAATGGAAAATGGGTGGCGTCTAAC
CATCCAGGATATGTCGAAAAAGCCTTGTGGGCATCCCGGAGACACACCTTTGGTCTTTAGGCTGGC
AGTTGGATCTCAATTTGAGTTTGGTGCAAAGGTTGTTTACCTGTGATGATGGGTATCACTATTAGGT
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ACATCCTATAGATGTAAGCAGGGATATGTGACAAACTGGAGAAATATCAGGATCAATAACTTGCCTTC
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 TAAGGGAAGAAGACAATAACATGTAGAAATGGAAGTGGTCTGAGCCACCAACATGCTTACATGCATGT
 GTAATACCAGAAAACATTATGGAATCACACAATAAATCTCAAATGGAGACACACTGAAAAGATTTATT
 CCCATTACGGGGAGGATATTGAATTTGGATGTAATATGGATATTATAAGCAAGAGATTACCCGCCATT
 TCGTACAAAGTGCAATTAATGGCACCATCAATTATCCCCTTGTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_009888
- Insert Size:** 3759 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:

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_009888.3](#), [NP_034018.2](#)

RefSeq Size: 4365 bp

RefSeq ORF: 3759 bp

Locus ID: 12628

UniProt ID: [P06909](#)

Cytogenetics: 1 F

Gene Summary: Glycoprotein that plays an essential role in maintaining a well-balanced immune response by modulating complement activation. Acts as a soluble inhibitor of complement, where its binding to self markers such as glycan structures prevents complement activation and amplification on cell surfaces. Accelerates the decay of the complement alternative pathway (AP) C3 convertase C3bBb, thus preventing local formation of more C3b, the central player of the complement amplification loop. As a cofactor of the serine protease factor I, CFH also regulates proteolytic degradation of already-deposited C3b. In addition, mediates several cellular responses through interaction with specific receptors. For example, interacts with CR3/ITGAM receptor and thereby mediates the adhesion of human neutrophils to different pathogens. In turn, these pathogens are phagocytosed and destroyed.[UniProtKB/Swiss-Prot Function]