

Product datasheet for **SC120717**

MCFD2 (NM_139279) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | MCFD2 (NM_139279) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | MCFD2 |
| Synonyms: | F5F8D; F5F8D2; LMAN1IP; SDNSF |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF sequence for NM_139279 edited ATGACCATGAGATCCCTGCTCAGAACCCCTTCTGTGTGGCCTGCTCTGGCCCTTTTGT GCCCCAGGCGCCAGGGCTGAGGAGCCTGCAGCCAGCTTCTCCAACCCGGCAGCATGGGC CTGGATAAGAACACAGTGCACGACCAAGAGCATATCATGGAGCATCTAGAAGGTGCATC AACAAACCAGAGGCGGAGATGTCGCCACAAGAATTGCAGCTCCATTACTTCAAAATGCAT GATTATGATGGCAATAATTTGCTTGATGGCTTAGAACTCTCCACAGCCATCACTCATGTC CATAAGGAGGAAGGGAGTGAACAGGCACCACTAATGAGTGAAGATGAACTGATTAACATA ATAGATGGTGTGTTTGGAGAGATGATGACAAGAACAATGATGGATACATTGACTATGCTGAA TTTGCAAATCACTGCAGTAG |



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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_139279 unedited TTCAAATTTTGTAAACGACTTCACTATAGGGCGGCCGCAATTCGCACGAGGGGGCTGG TGAGGCTCACGTTGGAGGGCTTCGCGTCTGCTTCGGAGACCGTAAGGATATTGATGACCA TGAGATCCCTGCTCAGAACCCCTTCTGTGTGGCCTGCTCTGGGCTTTTGTGCCCCAG GCGCCAGGGCTGAGGAGCCTGCAGCCAGCTTCTCCAACCCGGCAGCATGGGCCTGGATA AGAACACAGTGCACGACCAAGAGCATATCATGGAGCATCTAGAAGGTGCATCAACAAAC CAGAGGCGGAGATGTCGCCACAAGAATTGCAGCTCCATTACTTCAAATGCATGATTATG ATGGCAATAATTTGCTTGATGGCTTAGAACTCTCCACAGCCATCACTCATGTCCATAAGG AGGAAGGGAGTGAACAGGCACCCTAATGAGTGAAGATGAACTGATTAACATAATAGATG GTGTTTTGAGAGATGATGACAAGAACAATGATGGATACATTGACTATGCTGAATTTGCAA AATCACTGCAGTAGATGTTATTTGGCCATCTCCTGGTTATATACAAATGTGACCCGTGAT AATGTGATTGAACACTTTAGTAATGCAAATAACTCATTTCCAATACTGCTGCAGCATT TTGGTAAAAACCTGTAGCGATTCGTTACACTGGGGTGAGAAGAGATAAGAGAAATGAAAG AGAAGAGAAATGGGACATCTAATAGTCCCTAAGTCTATTAATACCTTATTGGACAANG GCTTGCTTCAGCATCTGTATTAGTCTGTATTAATGCTGCTGATAAAGACGTACCCGAGAC TGGGAAGAAAAAAGATTTACTTGGACCTACAGTTNCACATGGCTGGNGGAGGCCTCAAA TCATGGGCGGGAGGAAAGGCATTCTTACATGGNCAGCAGAAAAATGAGGAAGAAACAA AGGGAAACCCCTGAA</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_139279 unedited GGTTTGNNNNAATTCACNTGNACCGNCGCCGCATNCTGANGATCGATTTTTTTTTTTT TTTTTTTTGCTTCATCAGTTTTATTGGTCATATATCCAGNAATCATCATATATAAATCTT TCAAAATATGAGCTATTACAAGAATAGTTTACAAGTCAGCTCTGACTGCACAAACTT GACACAGGAAACCATTTTTACNAATACATATGTTTTCTTATAATACTGTNATAAAGAAAA ATAAGTCTGTATACATCCTAACGACAAATTTGTAGTCTCTTTTTCCATTCAATCATCG TTTCAAGTTTCTAATACCGAACGTTCCCTCCATCCATAAAACCAATTTCAAACCTGGCGG CGTCTTTCATTTTCAAACCCCTAAAGAATTCACCGGGGAAAGGGGTTTTGGGGTCCCCTT TAAACTTCCCGAATTGAAAAAAACCCGTGTCTTGGGCAAAAAAAGGAAATTCAAACA ATCCCCCTGGAAGAAAAATCCATCGGAGAAAAAATGGGTGGGAAAAAATTTTTTACT TCCCCCTAGGCAAGGCCGGGGGGGTTTTACCCCCCGGGGAAAAAACCCGGCCATCCC CAAAGATTGCCACCGGGGGGAAAAAACCCCCCAACCCCGGGGTAAAAAAGAAAA AGTGCACCCCTGGTTTGGGAAACACACCCCTTTTGGGGGGGGCCCCCGGGG GAGAGAAAAACAACCCCCCTTTTTGGGGGGGGGGCGCCTTTTTTTAAAA ACCCCGAAACGCGGGGGAGGGGGCCCTTTTCTCCCGCGGTGGGTGTTTTCTTCAA GGGGGGGGGAGAGGAAACTTTTTCTCCCTGGTGGGTGGGAGAGAAAC</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_139279 |
| Insert Size: | 4700 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_139279.3](#), [NP_644808.1](#)

RefSeq Size: 4144 bp

RefSeq ORF: 441 bp

Locus ID: 90411

UniProt ID: [Q8NI22](#)

Cytogenetics: 2p21

Gene Summary: This gene encodes a soluble luminal protein with two calmodulin-like EF-hand motifs at its C-terminus. This protein forms a complex with LMAN1 (lectin mannose binding protein 1; also known as ERGIC-53) that facilitates the transport of coagulation factors V (FV) and VIII (FVIII) from the endoplasmic reticulum to the Golgi apparatus via an endoplasmic reticulum Golgi intermediate compartment (ERGIC). Mutations in this gene cause combined deficiency of FV and FVIII (F5F8D); a rare autosomal recessive bleeding disorder characterized by mild to moderate bleeding and coordinate reduction in plasma FV and FVIII levels. This protein has also been shown to maintain stem cell potential in adult central nervous system and is a marker for testicular germ cell tumors. The 3' UTR of this gene contains a transposon-like human repeat element named 'THE 1'. A processed RNA pseudogene of this gene is on chromosome 6p22.1. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Apr 2016]
Transcript Variant: This variant (1) encodes isoform A. Variants 1, 2, 3 and 4 encode the same isoform (A).