

Product datasheet for RC202230

MCFD2 (NM_139279) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	MCFD2 (NM_139279) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MCFD2
Synonyms:	F5F8D; F5F8D2; LMAN1IP; SDNSF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC202230 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGACCATGAGATCCCTGCTCAGAACCCCCTTCCTGTGTGGCCTGCTCTGGGCCTTTTGTGCCCCAGGCG CCAGGGCTGAGGAGCCTGCAGCCAGCTTCTCCCAACCCGGCAGCATGGGCCTGGATAAGAACACAGTGCA CGACCAAGAGCATATCATGGAGCATCTAGAAGGTGTCATCAACAAACCAGAGGCGGAGATGTCGCCACAA GAATTGCAGCTCCATTACTTCAAAATGCATGATTATGATGGCAATAATTTGCTTGATGGCTTAGAACTCT CCACAGCCATCACTCATGTCCATAAGGAGGAAGGGAAG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	<pre>>RC202230 protein sequence Red=Cloning site Green=Tags(s)</pre>
	MTMRSLLRTPFLCGLLWAFCAPGARAEEPAASFSQPGSMGLDKNTVHDQEHIMEHLEGVINKPEAEMSPQ ELQLHYFKMHDYDGNNLLDGLELSTAITHVHKEEGSEQAPLMSEDELINIIDGVLRDDDKNNDGYIDYAE FAKSLQ
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6013_b11.zip



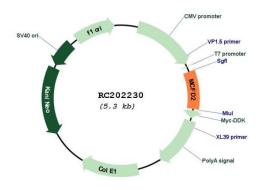
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Cloning Scheme: Extra time the OFF Building: Limit for the set of the Building Extra time to the Building Limit for the set of the Building Extra time to the Building Limit for the set of the Building Extra time to the Building Limit for the set of the Building Extra time to the Building Limit for the set of the Building Extra time to the Building Limit for the set of the Building Extra time to the Building Limit for the set of the Building Extra time to the Building DOTI Disclaimer: 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 varias 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).		CFD2 (NM_139279) Human Tagged ORF Clone – RC202230
CONING Scheme. Image: Imag	Restriction Sites:	Sgfl-Mlul
Low Description Description <thdescription< th=""> Description <thdescription< th=""> Description <thdescriptin< th=""> Description De</thdescriptin<></thdescription<></thdescription<>	Cloning Scheme:	Sgfi ORF Miul
aver one one are aver one are aver one are aver one or aver aver off the Advancements ·** ·** ACCN: NM_139279 ORF Size: 438 bp OTI Disclaimer: 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 dato 100ul of sterile water to dissolve the DNA. 3. Close 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. RefSeq: NM 139279.6 RefSeq Size: 41 bp		Consensus EcoR I BamH I Kpn I RBS Sg(I) CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCGCGCG
ACCN:NM_139279ORF Size:438 bpOTI Disclaimer: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 infoOTI 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. 		GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAC GAT AAG GTT TAA ACGGCCGGGCC D L A A N D I L <u>D Y K D D D K</u> V stop
ORF Size:438 bpOTI Disclaimer: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 	ACCN:	NM 139279
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RefSeq ORF:441 bp	RefSeq:	<u>NM 139279.6</u>
	RefSeq Size:	4196 bp
Locus ID: 90411	RefSeq ORF:	441 bp
	Locus ID:	90411

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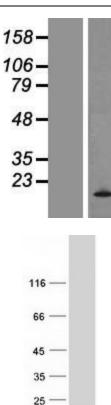
	MCFD2 (NM_139279) Human Tagged ORF Clone – RC202230
UniProt ID:	<u>Q8NI22</u>
Cytogenetics:	2p21
MW:	16.4 kDa
Gene Summary:	This gene encodes a soluble luminal protein with two calmodulin-like EF-hand motifs at its C- terminus. This protein forms a complex with LMAN1 (lectin mannose binding protein 1; 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]

Product images:



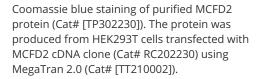
Circular map for RC202230

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Western blot validation of overexpression lysate (Cat# [LY408335]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202230 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



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