

Product datasheet for **RC230266**

MFSD5 (NM_001170790) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD5 (NM_001170790) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MFSD5
Synonyms:	hsMOT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC230266 representing NM_001170790
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGTCAGTGCAGTGGGAGAGGAGGCAACCAAGGAGACCTTCTCGGCTTCGGGACGGGTGCTGTT
 CCTTAGGAAGCTCCAACCTTGGCTCTACCGACTGCGGGCATCTTCCGAGCACTGCACGGAAGAAAA
 GAAAATTGGCACTTATTTCAAGGTGGCCCTCAGGCATCCAAGAGCCAGAGGAGCAGGTGTCACGGGATG
 GCAGCGAGCGAGGCCAGGCCAGGAGAAGCAACCGAGCCTCTATGGTCGCCCTTCCGACCCACCCCA
 GGCGTCAGGAGTCCGCGCCCGGTGTCGGGGGCCACCATGCTGGTACTGCCTACCTTGTCTTTGT
 AGGCCTCTGGCCTCTGCCTGGGGCTGGAAGTCAAGATGCCGGCTAAACCCCTGGAAGGGCTGC
 AGCAATCCCTCCTTCTCGTTTCAACTGGACTTCTATCAGGTCTACTTCTGGCCCTGGCAGCTGATT
 GGCTTCAGGCCCCCTACCTCTATAAACTCTACCAGCATTACTACTTCTGGAAGGTCAAATTGCCATCT
 CTATGTCTGTGGCCTTGCCTCTACAGTCTCTTTGGCCTAGTGGCCTCCTCCCTTGTGGATTGGCTGGT
 CGCAAGAATTCTGTGCTCTTCTCCCTGACTTACTCACTATGCTGCTTAACCAAACCTCTCAAGACT
 ACTTTGTGCTGCTAGTGGGGCGAGCACTTGGTGGGCTGTCCACAGCCCTGCTCTTCTCAGCCTTCGAGGC
 CTGGTATATCCATGAGCACGTGGAACGGCATGACTTCCCTGCTGAGTGGATCCCAGCTACCTTTGCTCGA
 GCTGCCTTCTGGAACCATGTGCTGGCTGTAGTGGCAGGTGGCAGCTGAGGCTGTAGCCAGCTGGATAG
 GGCTGGGGCCTGTAGCGCCCTTTGTGGCTGCCATCCCTCCTGGCTCTGGCAGGGGCTTGGCCCTTCG
 AAAGTGGGGGAGAACTATGACCGGCAGCGTGCCTTCTCAAGGACCTGTGCTGGAGGCTGCGCTGCCTC
 CTGTCGGACCCCGCGTGTCTGCTTTGGCACCATAACAAGCTCTATTTGAGAGTGCATCTTTCATCTTTG
 TCTTCTCTGGACACCTGTGCTGGACCCACGGGGCCCTCTGGCATTATCTTCTCAGCTTCAATGGC
 AGCCAGCCTGCTTGGCTCTTCCCTGTACCGTATCGCCACCTCCAAGAGGTACCACCTTCAGCCCATGCAC
 CTGCTGTCCCTTGTGCTCATCGTCTTCTCTCTTCTCATGTTGACTTTCTTACCAGCCAGGCC
 AGGAGAGTCCGGTGGAGTCTTTCATAGCCTTTCTACTTATTGAGTTGGCTTGTGGATTATACTTTCCAG
 CATGAGCTTCTACGGAGAAAGGTATCCCTGAGACAGAGCAGGCTGGTGTACTCAACTGGTTCGGGTA
 CCTCTGCACTCACTGGCTTGCCTAGGGCTCCTTGTCTCCATGACAGTATCGAAAAACAGGCACTCGGA
 ATATGTTCAAGCTTTGCTGCTGCTCATGGTATGGCTCTGCTGGCAGTGGTGGGACTCTCACCGTGGT
 AAGGCATGATGCTGAGCTGCGGGTACCTCACCTACTGAGGAGCCCTATGCCCTGAGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230266 representing NM_001170790
 Red=Cloning site Green=Tags(s)

MEVTAVGEEANQGDLLGFGQRCCSLGSSNPWLYRTAGIFPEHCTEEKKIGTYFRVAPQASKSQRSRCHGM
 AASEARPGEATAASYGRPFPTHPRRQEFRARVVRGPTMLVTAYLAFVGLLASCLGLELSRCRAKPPGRAC
 SNPSFLRFQLDFYQVYFLAALADWLQAPYLKLYQHYYFLEGQIAILYVGLASTVLFGLVASSLVDWLG
 RKNSCVLSLTYSLCCLTKLSQDYFVLLVGRALGGLSTALLFAFEAWYIHEHVERHDFPAEWIPATFAR
 AAFWNHVLAVVAGVAAEAVASWIGLGPVAPFVAIPLLLALAGALALRNWGENYDRQAFSRTCAGGLRCL
 LSDRRVLLLTGIQALFESVIFIFVFLWTPVLDPHGAPLGIIFSSFMAASLLGSSLYRIATSKRYHLQPMH
 LLSLAVLIVVFSLFMLTFSTSPGQESPVESFIAFLLIELACGLYFSPMSFLRRKVIPETEQAGVLNWFRV
 PLHSLACLGLLVLHSDRKTGTRNMF SICSAVMVMALLAVVGLFTVVRHDAELRVPSPTEEPYAPEL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8067_b08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001170790

ORF Size: 1671 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 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_001170790.1](#), [NP_001164261.1](#)

RefSeq ORF: 1674 bp

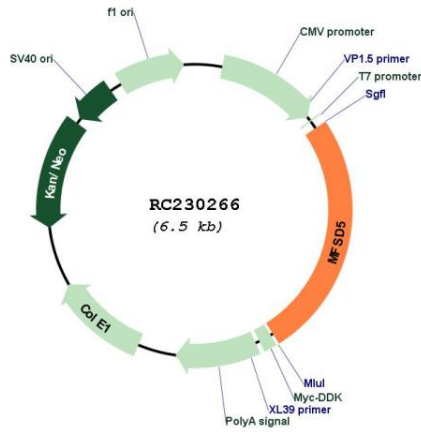
Locus ID: 84975

UniProt ID: [Q6N075](#)

Cytogenetics: 12q13.13

Protein Families: Transmembrane
MW: 62 kDa
Gene Summary: Mediates high-affinity intracellular uptake of the rare oligo-element molybdenum. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC230266