

Product datasheet for **RG230266**

MFSD5 (NM_001170790) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD5 (NM_001170790) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MFSD5
Synonyms:	hsMOT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG230266 representing NM_001170790
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGTCAGTGCAGTGGGAGAGGAGGCAACCAAGGAGACCTTCTCGGCTTCGGGAGCGGTGCTGTT
 CCTTAGGAAGCTCCAACCTTGGCTCTACCGACTGCGGCATCTTCCGAGCACTGCACGGAAGAAAA
 GAAAATTGGCACTTATTTCAAGGTGGCCCTCAGGCATCCAAGAGCCAGAGGAGCAGGTGTCACGGGATG
 GCAGCGAGCGAGGCCAGGCCAGGAGAAGCAACCGAGCCTCTATGGTCGCCCTTCCGACCCACCCCA
 GGCGTCAGGAGTCCGCGCCCGGTGTCGCGGGGCCACCATGCTGGTACTGCCTACCTTGTCTTTGT
 AGGCCTCTGGCCTCTGCCTGGGGCTGGAAGTCAAGATGCCGGCTAAACCCCTGGAAGGGCTGC
 AGCAATCCCTCCTTCTCGTTTCAACTGGACTTCTATCAGGTCTACTTCTGGCCTGGCAGCTGATT
 GGCTTCAGGCCCTACCTCTATAAACTCTACCAGCATTACTTCTGGAAGGTCAAATTGCCATCCT
 CTATGTCTGTGGCCTTGCCTCTACAGTCTCTTGGCCTAGTGGCCTCCTCCCTTGTGGATTGGCTGGT
 CGCAAGAATTCTGTGCTCTTCTCCCTGACTTACTCACTATGCTGCTTAACCAAACCTCTCAAGACT
 ACTTTGTGCTGCTAGTGGGGCGAGCACTTGGTGGGCTGTCCACAGCCCTGCTTCTCAGCCTTCGAGGC
 CTGGTATATCCATGAGCACGTGGAACGGCATGACTTCCCTGCTGAGTGGATCCCAGCTACCTTGTCTGA
 GCTGCCTTCTGGAACCATGTGCTGGCTGTAGTGGCAGGTGGCAGCTGAGGCTGTAGCCAGCTGGATAG
 GGCTGGGGCTGTAGCGCCCTTGTGGCTGCCATCCCTCTCCTGGCTCTGGCAGGGGCTTGGCCCTTCG
 AAAGTGGGGGAGAACTATGACCGGCAGCGTGCCTTCTCAAGGACCTGTGCTGGAGGCTGCGCTGCCTC
 CTGTCGGACCCCGCGTGTCTGTTGGCACCATAACAAGCTCTATTTGAGAGTGCATCTTCTATCTTTG
 TCTTCTCTGGACACCTGTGCTGGACCCACAGGGGCCCTCTGGCATTATCTTCTCCAGCTTCAAGGC
 AGCCAGCCTGCTTGGCTCTTCCCTGTACCGTATGCCACCTCCAAGAGGTACCACCTTACGCCCATGCAC
 CTGCTGTCCCTTGTGCTCATCGTCTTCTCTCTTCTCATGTTGACTTTCTTACCAGCCAGGCC
 AGGAGAGTCCGGTGGAGTCTTTCATAGCCTTCTACTTATTGAGTGGCTTGTGGATTATACTTTCCAG
 CATGAGCTTCTACGGAGAAAGGTATCCCTGAGACAGAGCAGGCTGGTGTACTCAACTGGTTCGGGTA
 CCTCTGCACTCACTGGCTTGCCTAGGGCTCCTTGTCTCCATGACAGTATCGAAAAACAGGCACTCGGA
 ATATGTTCAAGCTTGTCTGCTGTCATGGTATGGCTCTGCTGGCAGTGGTGGGACTCTCACCGTGGT
 AAGGCATGATGCTGAGCTGCGGGTACCTCACCTACTGAGGAGCCCTATGCCCTGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230266 representing NM_001170790
 Red=Cloning site Green=Tags(s)

MEVTAVGEEANQGDLLGFGQRCCSLGSSNPWL YRTAGIFPEHCTEEKIGTYFRVAPQASKSQRSRCHGM
 AAASEARPGEATAASYGRPFPTHPRRQEFRARVVRGPTMLVTAYLAFVGLLASCLGLELSRCRAKPPGRAC
 SNPSFLRFQLDFYQVYFLAALADWLQAPYLYKLYQHYYFLEGQIAILYVCGLASTVLFGLVASSLVDWLG
 RKNSCVLFSLTYSLCCCLKLSQDYFVLLVGRALGGLSTALLFSAFEAWYIHEHVERHDFPAEWIPATFAR
 AAFWNHVLAVVAGVAAEAVASWIGLGPVAPFVAIPLLALAGALALRNWGENYDRQRAF SRTCAGGLRCL
 LSDRRVLLLGTIQALFESVIFIFVFLWTPVLDPHGAPLGIIFSSFMAASLLGSSLYRIATSKRYHLQPMH
 LLSLAVLIVVFSLFMLTFSTSPGQESPVESFIAFLLIELACGLYFSPMSFLRRKVIPETEQAQVLNWFVRV
 PLHSLACLGLLVLHSDRKTGTRNMF SICSAVMVMALLAVVGLFTVVRHDAELRVPSPTEEPYAPEL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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 Size: 2054 bp

RefSeq ORF: 1674 bp

Locus ID: 84975

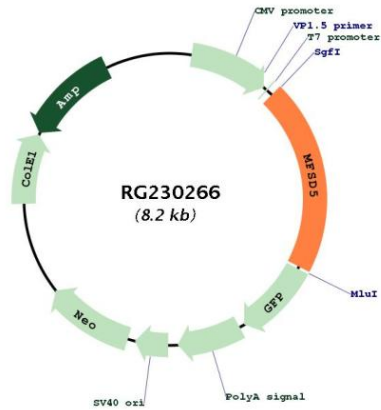
UniProt ID: [Q6N075](#)

Cytogenetics: 12q13.13

Protein Families: Transmembrane

Gene Summary: Mediates high-affinity intracellular uptake of the rare oligo-element molybdenum. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG230266