OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC102947

MFSD5 (NM_032889) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD5 (NM_032889) Human Untagged Clone
Tag:	Tag Free
Symbol:	MFSD5
Synonyms:	hsMOT2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC102947 sequence for NM_032889 edited (data generated by NextGen Sequencing)

ATGCTGGTGACTGCCTACCTTGCTTTTGTAGGCCTCCTGGCCTCCTGCCTGGGGCTGGAA
CTGTCAAGATGCCGGGCTAAACCCCCTGGAAGGGCCTGCAGCAATCCCTCCTTCCTTCGG
TTTCAACTGGACTTCTATCAGGTCTACTTCCTGGCCCTGGCAGCTGATTGGCTTCAGGCC
CCCTACCTCTATAAACTCTACCAGCATTACTACTTCCTGGAAGGTCAAATTGCCATCCTC
TATGTCTGTGGCCTTGCCTCTACAGTCCTCTTTGGCCTAGTGGCCTCCTCCCTTGTGGAT
TGGCTGGGTCGCAAGAATTCTTGTGTCCTCTTCTCCCTGACTTACTCACTATGCTGCTTA
ACCAAACTCTCTCAAGACTACTTTGTGCTGCTAGTGGGGCGAGCACTTGGTGGGCTGTCC
ACAGCCCTGCTCTTCTCAGCCTTCGAGGCCTGGTATATCCATGAGCACGTGGAACGGCAT
GACTTCCCTGCTGAGTGGATCCCAGCTACCTTTGCTCGAGCTGCCTTCTGGAACCATGTG
CTGGCTGTAGTGGCAGGTGTGGCAGCTGAGGCTGTAGCCAGCTGGATAGGGCTGGGGCCT
GTAGCGCCCTTTGTGGCTGCCATCCCTCTCCTGGCTCTGGCAGGGGCCTTGGCCCTTCGA
AACTGGGGGGAGAACTATGACCGGCAGCGTGCCTTCTCAAGGACCTGTGCTGGAGGCCTG
CGCTGCCTCCTGTCGGACCGCCGCGTGCTGCTGTTGGGCACCATACAAGCTCTATTTGAG
AGTGTCATCTTCATCTTTGTCTTCCTCTGGACACCTGTGCTGGACCCACACGGGGCCCCT
CTGGGCATTATCTTCTCCAGCTTCATGGCAGCCAGCCTGCTTGGCTCTTCCCTGTACCGT
ATCGCCACCTCCAAGAGGTACCACCTTCAGCCCATGCACCTGCTGTCCCTTGCTGTGCTC
ATCGTCGTCTTCTCTCTCTTCATGTTGACTTTCTCTACCAGCCCAGGCCAGGAGAGTCCG
GTGGAGTCCTTCATAGCCTTTCTACTTATTGAGTTGGCTTGTGGATTATACTTTCCCAGC
ATGAGCTTCCTACGGAGAAAGGTGATCCCTGAGACAGAGCAGGCTGGTGTACTCAACTGG
TTCCGGGTACCTCTGCACTCACTGGCTTGCCTAGGGCTCCTTGTCCTCCATGACAGTGAT
CGAAAAACAGGCACTCGGAATATGTTCAGCATTTGCTCTGCTGTCATGGTGATGGCTCTG
CTGGCAGTGGTGGGACTCTTCACCGTGGTAAGGCATGATGCTGAGCTGCGGGTACCTTCA
CCTACTGAGGAGCCCTATGCCCCTGAGCTGTAA

Clone variation with respect to NM_032889.4

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032889 unedited
AGGTTTGGAATTTGTAATACGACTTACTATAGGGCGGCNCGCGATTCGGCACGAGGCCGA
GCCGGAGCCGGAGCCACAGCGGGGAGGGTGGCCTGGCGGCCTGGAGCCGGACGTGTCCGG
GGCGTCCCCGCAGACCGGGGCAGCAGGTCGTCCGGGGGCCCACCATGCTGGTGACTGCCT
ACCTTGCTTTTGTAGGCCTCCTGGCCTCCTGCCTGGGGCTGGAACTGTCAAGATGCCGGG
CTAAACCCCCTGGAAGGGCCTGCAGCAATCCCTCCTTCCTTCGGTTTCAACTGGACTTCT
ATCAGGTCTACTTCCTGGCCCTGGCAGCTGATTGGCTTCAGGCCCCCTACCTCTATAAAC
TCTACCAGCATTACTACTTCCTGGAAGGTCAAATTGCCATCCTCTATGTCTGTGGCCTTG
CCTCTACAGTCCTCTTTGGCCTAGTGGCCTCCTCCCTTGTGGATTGGCTGGGTCGCAAGA
ATTCTTGTGTCCTCTTCTCCCTGACTTACTCACTATGCTGCTTAACCAAACTCTCTCAAG
ACTACTTTGTGCTGCTAGTGGGGCGAGCACTTGGTGGGCTGTCCACAGCCCTGCTCTTCT
CAGCCTTCGAGGCCTGGTATATCCATGAGCACGTGGAACGGCATGACTTCCCTGCTGAGT
GGATCCCAGCTACCTTTGCTCGAGCTGCCTTCTGGAACCATGTGCTGGCTGTAGTGGCAN
GTGTGGCAGCTGANGCTGTAGCCAGCTGGATAGGGCTGGGGCCTGTAGCGCACTTTGTGG
CTGCCATCCCTACTCTGACTCTGGCAGGNGCCTTGGCCCTACGAACTGNNGGGAGACTAT
GACCGNCAGCGTGCCTTCTCAGGACCTGTGCTGGGAGCTGCGCTGACTNCTGTNCGACCN
CGCGTGCTGCTGTTGGGCACATACAGCTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032889 unedited
ATCTATGNACCGCGGCACGCAATCTAAGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTA
TTAAAAAGGTTTATTTTCTAAATGGGAGTAACACAGAGGGAACTTTTGGCACCTTCTTTC
CAGTCCATCACCCCCATCATGTCCTCCCAAACACAAAGCAATGGCAGGGAAAAACCACAG
GACAGTCACAAAGTCAGTCACAGAGAGATCTGTACAATCCCGGATAGCTGGAATTCAAAA
GTCTGTCCCAGCTATCTTGTCCTGGAGTGGGGTTACAGCTCAGGGGCATAGGGCTCCTCA
GTAGGTGAAGGTACCCGCAGCTCAGCATCATGCCTTACCACGGTGAAAAGTCCCACCACT
GCCAGCAGAGCCATCACCATGACAGCAGAGCAAATGCTGAACATATTCCGAGTGCCTGTT
TTTCGATCACTGTCATGGAGGACAAGGAGCCCTAGGCAAGCCAGTGAGTGCAGAGGTACC
CGGAACCAGTTGAGTACACCAGCCTGCTCTGTCTCAGGGATCACCTTTCTCCGTAGGAAG
CTCATGCTGGGAAAGTATAATCCACAAGCCAACTCAATAAGTAAAAAGGCTATGAAGGAC
TCCACCGGACTCTCCTGGCCTGGGCTGGTAGAGAAAGTCAACATGAAGAGAGAGAAGACG
ACGATGAGCACAGCAAGGGACAGCAGGTGCATGGGCTGAAGGTGGTACCTCTTGGAGGTG
GCGATACGGTACAGGGAAGACCCAAGCAGGCTGGCTGCCATGAAGCTGGAGAGAATATGC
CCAGAGGGGCCCCGTGTGGGTCCAGCACAGGTGTCCAGAGGAAGACAAGATGAAGATGAC
CCTCTCAAATAGAGCTTGTATTGGTGCCCAAAAACAACACGCGGCGTTCCCGCAGGAGGC
AACCACAGCCTCCAACACAGGTCCTTGAAAAGCACGCCTGCGGCACATAATTCTCCCCCA
CTTTCAAGGGCCAAGGCC

Restriction Sites: NotI-NotI

ACCN: NM_032889

Insert Size: 1690 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_032889.2, NP_116278.2
RefSeq Size:	1761 bp
RefSeq ORF:	1353 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] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) is shorter at the N-terminus, compared to isoform 1.