

Product datasheet for **SC112473**

MFSD1 (NM_022736) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD1 (NM_022736) Human Untagged Clone
Tag:	Tag Free
Symbol:	MFSD1
Synonyms:	Minerva; SMAP4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_022736, the custom clone sequence may differ by one or more nucleotides

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ATGGGCGTGGCCCTGCGTGACCTGCCGGGGCGTCACGTGAGCTCCCGGAGTCATGTGACCGCGTCTTGA
CAGTGTTCACGGGCGCTGCTTCCTGCCTGGGTTTGGAGTTGTCACCACTTTCCCTCTCCGTCTCCTGC
GGGCGCAATGGAGGAGGAGGATGAGGAAGCGCGGGCGCTCCTGGCAGGCGGCCCTGACGAGGCCGACAGA
GGTGCCCCGGGCCGCCCTGGAGCCCTGCCGGCCCTCTGCCACCCAGTCGCCTGGCGCACCGGCTTTGG
TGCTGTTACTGATGTGCTTCCTTGGCTTTGGCAGCTATTTTGGCTATGATAATCTGCTGCCCTCAGAC
TCAAGTTAAACGAGATATGCAAGTGAATACCACGAAATTCATGCTGCTGTATGCCTGGTATTCTTGGCCC
AATGTAGTTTTGTGTTTCTTGGTGGCTTTTGTAGACCGAGTATTTGGAATACGATGGGCGACAATCA
TTTTAGCTGCTTTGTTTGCATTGGACAGGTTGTTTTGCCCTGGGTGGAATATTTAATGCTTTTGGCT
GATGGAATTTGGAAGATTTGTATTTGGGATTGGTGGCAGTCCTAGCAGTTGCCAGAATACATATGCT
GTGAGCTGGTTTAAAGGCAAAGAATTAACCTGGTGTGGACTTCAACTAGCATGGCTAGAATTGGAA
GTACAGTAAACATGAACCTCATGGGATGGCTGTATTCTAAGATTGAAGCTTTGTTAGGTTCTGCTGGTCA
CACAACCTCGGGATCACACTTATGATTGGGGGTATAACGTGTATTCTTTCACTAATCTGTGCCCTGGCT
CTTGCCTACTTGGATCAGAGAGCAGAGAGAATCCTTCATAAAGAACAAGGAAAAACAGGTGAAGTTATTA
AATTAAGTGTGTAAGGACTTCTCCTTACCCCTGTGGCTTATTTATCATCTGTGCTGCTATTATGT
TGCTGTGTTCCCTTTATTGGACTTGGGAAAGTTTTCTTACAGAGAAATTTGGATTTTCTTCCAGGCA
GCAAGTGAATTAACAGTGTGTATATGTCATATCAGTCCCATGTCCCCGGTGTGGGCTCCTGGTGG
ATAAACAGGGAAGAATCATCTGGGTCTTTGCGCAGTAGCAGCCACTCTGTGTCCCATATGATGCT
GGCCTTTACGATGTGGAACCTTGGATTGCTATGTGCTTCTGGGACTCTCCTACTCATTGCTTGCCTGT
GCATTGTGGCCAATGGTGGCATTGTAGTTCCTGAACATCAGCTGGGAAGTGCATATGGCTTCATGCAGT
CCATTAGAATCTTGGGTTGGCCATCATTCCATCATTGCTGGTATGATACTGGATTCTCGGGGGTATTT
GTTTTTGAAGTGTCTTCATTGCCTGTGTTTCTTTGTCACTTTTATCTGTGGTCTTACTCTATTTGGTG
AATCGTGCCCGGGTGGGAACCTAAATTATTCTGCAAGACAAAGGAAGAATAAAATTTCCCATCTG
AATGA
  
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022736 unedited

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GAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCCTGCGGGC
GCAATGGAGGAGGAGGATGAGGAAGCGCGGGCGCTCCTGGCAGGCGGCCCTGACGAGGCC
GACAGAGGTGCCCCGGCCGCCCTGGAGCCCTGCCGGCCCTCTGCCACCCAGTCGCCTG
GCGCACCGGCTTTTGGTGTGTTACTGATGTGCTTCCTTGGCTTTGGCAGCTATTTTGC
TATGATAATCTGCTGCCCTTCAGACTCAAGTTAAACGAGATATGCAAGTGAATACCAGC
AAATTCATGCTGCTGTATGCCTGGTATTCTTGGCCCAATGTAGTTTTGTGTTTCTTGGT
GGCTTTTTGATAGACCGAGTATTTGGAATACGATGGGCGACAATCATTTTTAGCTGCTTT
GTTTGCATTGGACAGGTTGTTTTTGCCTGGGTGGAATATTTAATGCTTTTTTGGCTGATG
GAATTTGGAAGATTTGTATTTGGGATTGGTGGCAGTCCTTAGCAGTTGCCAGAATACA
TATGCTGTGAGCTGGTTTAAAGGCAAAGAATTAACCTGGTGTGGACTTCAACTAGC
ATGGCTAGAATTGGAAGTACAGTAAACATGAACCTCATGGGATGGCTGTATTCTAAGATT
GAAGCTTTGTAGGTTCTGCTGGTCACACAACCCTCGGGATCACACTTATGATTGNGGGT
ATAACGTGTATTCTTCACTAATCTGTGCCTTGGCTCTTGCTACTTGNATCAGAGAGCA
GAGAGAATCCTTCATAAAGAACAAGGAANAACAGGTGAAGTTATTAANATAACCTGATGT
AAGGACTTCTCCTTACCCC
  
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_022736 unedited <pre>CCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCAAGACAGCATAGGAGAA ACTGCCCCCATGATCCAGTCACCTCCCACCAGGTCCCTCCCTCAAACACATAGGGATTAC AATTCGAGATGAGATTTGGGTAGGGACACAGAGACAAGTCATATCAACACAATAAACTGT AAGTCAGAAAAACAGATGTAAATAAAGCTGCCAAGCTACCTGCATAAGGAACGTACTTT CAATCTGTTCCCAAACATTTACACTTACAATATCATGCCATGTGCTTTAAACAATATAAT CAGCTAAATACATTGGTTTAATATCTTGTCTAAATATCTGCATTCTTTGACTTTAACAA ATAATATGTTAAGGCTGAAAAATATTAAGTATTTAAAGTTTGCAGAGAAGCTTCAT ACTCATATTTTACTTAATATAAAAAAACACATATGTTACTTAAAGTTCTACTCTGGAG AAAAAGCTACCCCATATACTTTCACTGACTGTAATTGGGCAAGTTCTCTTTATTCTGAC TTGGGTTTTCTCTAGATAATCTTCTGCATGAATAAAGTTAAATCAGTGTTTTGTAT TTTTTAAATCAAAGAAGACATCAAGTACTCCGTGTGCAGTGTTTTAATTTATCCATGT ACATAGGCAATTATCATAATTTGAAGGACACTTTTACTTATTAGACTATTAGAAAACT GTACAGAAAGTTTATACTATAAAAAATACATCCCTAAGTGATTAGGGTCTCAGNTACACA GAAATAAGAAATTGAAAGGGTTCATTNGCTCGCCATCCACATACTACAGAGTAAAGCGCA AGCTATTGTTCTGTGATCAGAAAGAGACTTCATAAACATCTTCACATATTCCTAGCATT ATGCCCTACTATTAAGGAAGGCTATGACATGCCATTGTTNATTNTGNGC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_022736
Insert Size:	2820 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:	<u>NM_022736.1, NP_073573.1</u>
RefSeq Size:	2161 bp
RefSeq ORF:	1398 bp
Locus ID:	64747
UniProt ID:	<u>Q9H3U5</u>
Cytogenetics:	3q25.32
Domains:	sugar_tr
Protein Families:	Transmembrane

Gene Summary:

Lysosomal transporter which is essential for liver homeostasis. Required to maintain stability and lysosomal localization of GLMP.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes the longest isoform (1). CCDS Note: The coding region has been updated to shorten the N-terminus to one that is more supported by conservation.