

Product datasheet for **SC328777**

MFSD1 (NM_001167903) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD1 (NM_001167903) Human Untagged Clone
Tag:	Tag Free
Symbol:	MFSD1
Synonyms:	Minerva; SMAP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC328777 representing NM_001167903.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCGTGGCCCTGCGTGACCTGCCGGGGCGTCACGTGAGCTCCCGGAGTCATGTGACCGCCGTCTTG
ACAGTGTTCACGGGCGCTGCTTCTGCCTGGGTTTGGAGTTGTCACCACTTTCCCTCTCCGTCTCCT
GCGGGCGCAATGGAGGAGGAGGATGAGGAAGCGGGCGCTCCTGGCAGGCGGCCCTGACGAGGCCGAC
AGAGGTGCCCCGCGCCCTGGAGCCCTGCCGGCCCTCTGCGACCCAGTCGCCTGGCGCACCGGCTT
TTGGTGTGTTACTGATGTGCTTCTTGCTTTGCTATTTTGTATGATAATCTGCTGCCCTTCAGA
CTCAAGTTAAACGAATGGGGCACAATCATTTTTAGCTGCTTTGTTGCAATTGGACAGGTTGTTTTGCC
CTGGGTGGAATATTTAATGCTTTTTGGCTGATGGAATTTGGAAGATTTGTATTTGGGATTGGTGGCGAG
TCCTTAGCAGTTGCCAGAATACATATGCTGTGAGCTGGTTAAAGGCAAAGAATTAACCTGGTGTTT
GGACTTCAACTTAGCATGGCTAGAATTGGAAGTACAGTAAACATGAACCTCATGGGATGGCTGTATTCT
AAGATTGAAGCTTTGTTAGGTTCTGCTGGTCACACAACCCTCGGGATCACACTTATGATTGGGGTATA
ACGTGTATTCTTCACTAATCTGTGCCTTGGCTCTTGCCTACTTGGATCAGAGAGCAGAGAGAATCCTT
CATAAAGAACAAAGGAAAAACAGGTGAAGTTATTAATTAATTAATGATGTAAGGACTTCTCCTTACCCTG
TGGCTTATATTTATCATCTGTGCTGCTATTATGTTGCTGTGTTCCCTTTTATTGGACTTGGGAAAGTT
TTCTTTACAGAGAAATTTGGATTTTCTTCCAGGCAGCAAGTGAATTAACAGTGTGTATATGTCATA
TCAGTCCCATGTCCCGGTGTTTGGGCTCCTGGTGGATAAACAGGGAAGAACATCATCTGGGTCTT
TGCGCAGTAGCAGCCACTCTGTGTCCACATGATGCTGGCCTTACGATGTGGAACCTTGGATTGCT
ATGTGTCTTCTGGGACTCTCTACTCATTGCTTGCCTGTGCATTGTGGCAATGGTGGCATTGTAGTT
CCTGAACATCAGCTGGGAAGTGCATATGGCTTCATGCAGTCCATTCAGAATCTTGGGTTGGCCATCATT
TCCATCATTGCTGGTATGATACTGGATTCTCGGGGGTATTTGTTTTTGAAGTGTTCTTCATTGCCTGT
GTTTCTTGTCACTTTTATCTGTGCTTACTCTATTTGGTGAATCGTGCCAGGTGGGAACCTAAAT
TATTCTGCAAGACAAAGGGAAGAAATAAAATTTCCCATACTGAATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001167903

Insert Size: 1428 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001167903.1</u>
RefSeq Size:	2262 bp
RefSeq ORF:	1428 bp
Locus ID:	64747
UniProt ID:	<u>Q9H3U5</u>
Cytogenetics:	3q25.32
Protein Families:	Transmembrane
MW:	51.7 kDa
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 (2) has multiple differences, compared to variant 1, one of which results in a restricted translational frameshift in the 5' coding region. The resulting protein (isoform 2) has a distinct segment and is shorter than isoform 1. CCDS Note: The coding region has been updated to shorten the N-terminus to one that is more supported by available conservation data.