

Product datasheet for **SC315784**

MFSD2B (NM_001080473) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD2B (NM_001080473) Human Untagged Clone
Tag:	Tag Free
Symbol:	MFSD2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC315784 representing NM_001080473.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGCGCCCTGCACCGCCCAAGGGGTCCCCGAGCCGAGCCGACGCCCCAGAGCCCGGC
CCGGGAGCGCCAAGCGAGGGCGAGAGGACAGAGCCGGTGCCTCTCATTCTGTACAAAGGTGTGC
TATGGCATTGGTGGGGTCCCCAACAGATAGCCTCCAGCGCCACAGCCTTTTACCTGCAGCTTTTCCTG
CTTGATATAGCACAGATCCCTGCCGCCAGGTGTCACTTGTTCTGTTTGGGGGAAAAGTGTCTGGGGCG
GCTGCTGACCCTGTGGCTGGGTCTTCAACAGGAGCCAGAGGACAGGGTCTGGACGGCTCATGCCT
TGGGTGCTGGGCTGCACCCCTTCATCGCCCTGGCCTACTTCTTCTGTGGTTCCTGCCCCCTTACC
AGCCTGCGAGGCTCTGGTACACGACTTTCTACTGCCTGTTCCAGGCCCTGGCCACGTTCTTCCAGGTG
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ATGACTGTGGAGATGGCGGGAACACTGATGGGGGCCACTGTCCACGGGCTCATCGTGTCCGGCGCCAC
AGACCCACAGGTGCGAGGCCACTGCGACCCCGGGGCCAGTCACTGTCTCCCGAATGCAGCCCATCTC
TACTGCATTGCGGCTGCCGTGGTTGTAGTGACTTACCCCGTGTGCATCAGTTTACTGTGCCTAGGGGTG
AAGGAGCGGCCAGACCCCTCTGCCCCAGCCTCAGGCCAGGCTTGAAGTTTCTGGCTGGGCTGAGCCTC
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GAGCAGAGCTACCTGGTCTGTCTGTACACATGCCTCCAGCTACACGACCACGTCCAGGGCCTGGTA
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CCTGTGGCATATGTCGTGGCCTTTGTATCTGGCGTGAGCATTGCTGTGCTTGTGCTACCTGGTCC
ATGCTGCCAGACGTGGTGGATGACTTTTCACTGCAGACCGTCACGGGCCAGGCTGGAGACCATCTTC
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ATTGGCGCGTGCCACCTGCATGATCCTTGTGGGCTCTGCATCCTCATGGTGGCTCCACTCCAAAG
ACACCCAGTGGGACGCTCCAGCCGGTGAAGCTTGAAGGTA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001080473

Insert Size: 1494 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_001080473.1</u>
RefSeq Size:	1508 bp
RefSeq ORF:	1494 bp
Locus ID:	388931
Cytogenetics:	2p23.3
Protein Families:	Transmembrane
MW:	53 kDa
Gene Summary:	Cation-dependent lipid transporter that specifically mediates export of sphingosine-1-phosphate in red blood cells and platelets (PubMed:29045386). Sphingosine-1-phosphate is a signaling sphingolipid and its export from red blood cells into in the plasma is required for red blood cell morphology (By similarity). Does not transport lysophosphatidylcholine (LPC) (By similarity).[UniProtKB/Swiss-Prot Function]