

## Product datasheet for **RC214472**

### **MFSD2B (NM\_001080473) Human Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>RC214472 representing NM\_001080473  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCGCCCTGCACCGCCCAAGGGTCCCCGAGCCGAGCCGACGCCCCAGAGCCCGGCC  
 CGGGGAGCGCCAAGCGAGGGCGAGAGGACAGCAGAGCCGGTGCCTCTCATTCTGTACAAAGGTGTGCTA  
 TGGCATTGGTGGGTCCCAACAGATAGCCTCCAGCGCCACAGCCTTTACCTGCAGCTTTTCTGCTT  
 GATATAGCACAGATCCCTGCCGCCAGGTGTCACTTGTCTGTTGGGGAAAAGTGTCTGGGGCGGCTG  
 CTGACCTGTGGCTGGGTCTTCATCAACAGGAGCCAGAGGACAGGGTCTGGACGGCTCATGCCTGGGT  
 GCTGGGCTGCACCCCTTCATCGCCTGGCCTACTTCTTCTGTGGTTCCTGCCCCCTTACCAGCCTG  
 CGAGGCCTCTGGTACACGACTTTCTACTGCCTGTCCAGGCCCTGGCCACGTTCTCCAGGTGCCCTACA  
 CAGCGCTACCATGCTGCTGACTCCCTGCCAAGGGAGCGGGACTCGGCCACCGCTACCGGATGACTGT  
 GGAGATGGCGGAACACTGATGGGGCCACTGTCCACGGGCTCATCGTGTCCGGCGCCACAGACCCAC  
 AGGTGCGAGGCCACTGCGACCCCGGGGCCAGTCACTGTCTCCCGAATGCAGCCCATCTCTACTGCATTG  
 CGGCTGCCGTGGTGTAGTGACTTACCCGTGTGCATCAGTTTACTGTGCCTAGGGGTGAAGGAGCGGCC  
 AGACCCCTCTGCCCCAGCCTCAGGCCAGGCTTGAGTTTCTGGCTGGGCTGAGCCTCACTACCCGGCAC  
 CCACCTACCTGAAGCTGGTGATCTCCTTCTGTTCATCTCTGCTGCTGTTCAAGTGGAGCAGAGCTACC  
 TGGTCTGTCTGTACACATGCCTCCAGCTACACGACCACGTCAGGGCCTGGTACTAACTGTCTGGT  
 CTCAGCCGTGCTGAGCACCCGCTGTGGAGTGGGTCTCCAGCGCTTTGGGAAGAAGACGTGAGCCTTT  
 GGGATCTTTGCGATGGTGCCTTTGCGATCTTGTGGCTGCTGTGCCACAGCACCTGTGGCATATGTCG  
 TGGCCTTTGTATCTGGCGTGAGCATTGCTGTCTTGTGCTACCTGGTCCATGCTGCCAGACGTGGT  
 GGATGACTTTCAGCTGCAGCACCGTCACGGGCCAGGCCTGGAGACCATCTTCTACTCCTCCTACGCTTTC  
 TTCACCAAGCTGTCTGGCGCATGTGCCCTGGGCATCTCCACCTCAGTCTGGAGTTCTCGGGGTATAAGG  
 CAGGGGTCTGCAAGCAAGCAGAGGAGGTGGTGGTCAACCTCAAAGTCTCATTGGCGCCGTGCCACCTG  
 CATGATCCTTGTGGGCTCTGCATCCTCATGGTCGGCTCCACTCAAAGACACCCAGTCGGGACGCTCC  
 AGCCGGCTGAGCCTTCGGAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC214472 representing NM\_001080473  
 Red=Cloning site Green=Tags(s)

MAAPPAPAAKGSPQPEPHAPEPGPSAKRGREDSRAGRLSFCTKVCYIGGVNPQIASSATAFYLLQLFLL  
 DIAQIPAAQVSLVLFGGKVSGAAADPVAGFFINRSQRTGSGRLMPWVLGCTPFIALAYFFLWFLPPFTSL  
 RGLWYTTFFYCLFQALATFFQVPYAL TMLLTPCPRERDSATAYRMTVEMAGTLMGATVHGLIVSGAHRPH  
 RCEATATPGPVTVPNAHL YCIAAVVVVTPVCISLLCLGVKERPDPSAPASGPGLSFLAGLSLTTRH  
 PPYLKLVISFLFISA AVQVEQSYLVLFCTHASQLHDHVQLVLTVLVSAVLSPLWEWVLQRFGKKTSAF  
 GIFAMVPFAILLAAVPTAPVAYVAVFVSGVSI VSLLLPWSMLPDVDDFQLQHRHGPGLTIFYSSYVF  
 FTKLSGACALGISTLSLEFSGYKAGVCKQAEVVVTLKVLIGAVPTCMILAGLCILMVGSTPKTPSRDAS  
 SRLSLRR

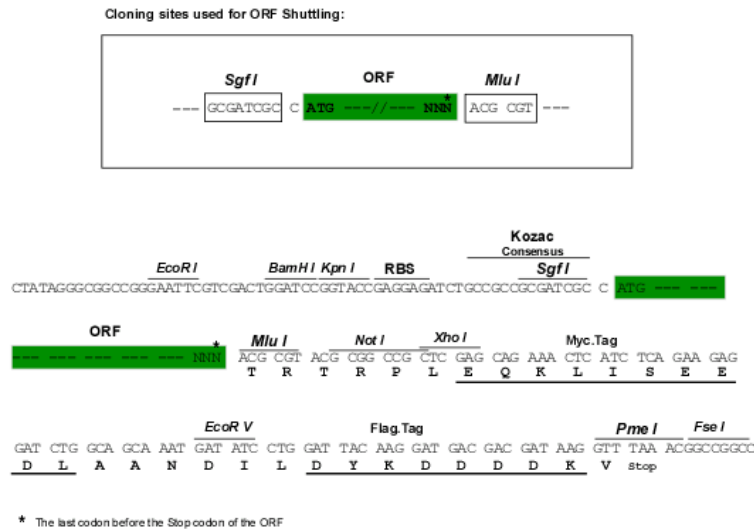
**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1146\\_h09.zip](https://cdn.origene.com/chromatograms/ja1146_h09.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001080473

**ORF Size:** 1491 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001080473.1](#), [NP\\_001073942.1](#)

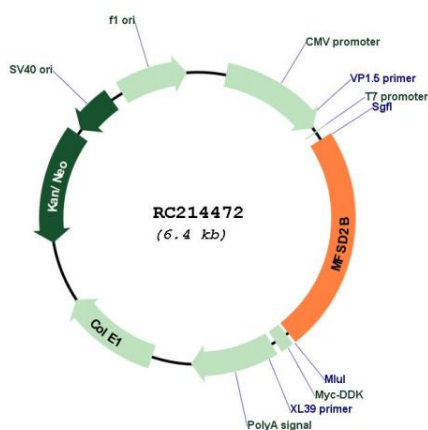
**RefSeq Size:** 1508 bp

**RefSeq ORF:** 1494 bp

**Locus ID:** 388931

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cytogenetics:</b>     | 2p23.3                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Families:</b> | Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MW:</b>               | 52.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Summary:</b>     | 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] |

## Product images:



Circular map for RC214472