

Product datasheet for **RG214472**

MFSD2B (NM_001080473) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD2B (NM_001080473) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MFSD2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG214472 representing NM_001080473
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCGCCCCCTGCACCAAGGGTCCCCGAGCCGAGCCGACGCCCCAGAGCCCGGCC
 CGGGGAGCGCAAGCGAGGCGAGAGGACAGCAGAGCCGGTGCCTCTCATTCTGTACAAAGGTGTGCTA
 TGGCATTGGTGGGTCCCAACAGATAGCCTCCAGCGCCACAGCCTTTACCTGCAGCTTTTCTGCTT
 GATATAGCACAGATCCCTGCCGCCAGGTGTCACTTGTCTGTTGGGGAAAAGTGTCTGGGGCGGCTG
 CTGACCTGTGGTGGGTCTTCATCAACAGGAGCCAGAGGACAGGGTCTGGACGGCTCATGCCTGGGT
 GCTGGGCTGCACCCCTTCATCGCCTGGCCTACTTCTTCTGTGGTTCCTGCCCCCTTCACAGCCTG
 CGAGGCTCTGGTACAGACTTTCTACTGCCTGTCCAGGCCCTGGCCACGTTCTTCCAGGTGCCCTACA
 CAGCGCTACCATGCTGCTGACTCCCTGCCAAGGGAGCGGGACTCGGCCACCGCTACCGGATGACTGT
 GGAGATGGCGGAACACTGATGGGGCCACTGTCCACGGGCTCATCGTGTCCGGCGCCACAGACCCAC
 AGGTGCGAGGCCACTGCGACCCCGGGGCCAGTCACTGTCTCCCGAATGCAGCCATCTCTACTGCATTG
 CGGCTGCCGTGGTGTAGTGACTTACCCGTGTGCATCAGTTTACTGTGCCTAGGGGTGAAGGAGCGGCC
 AGACCCCTCTGCCCCAGCCTCAGGCCAGGCTTGAATTTCTGGCTGGGCTGAGCCTCACTACCCGGCAC
 CCACCTACCTGAAGCTGGTGATCTCCTTCTGTTCATCTCTGCTGCTGTTCAAGTGGAGCAGAGCTACC
 TGGTCTGTTCTGTACACATGCCTCCAGCTACACGACCAGTCCAGGGCCTGGTACTAACTGTCTGGT
 CTCAGCGTGCTGAGCACCCGCTGTGGGAGTGGGTCTCCAGCGCTTTGGGAAGAAGACGTGAGCCTTT
 GGGATCTTTGCGATGGTGCCTTTGCGATCTTGTGGCTGCTGTGCCCACAGACCTGTGGCATATGTCG
 TGGCCTTTGTATCTGGCGTGAGCATTGCTGTCTTGTGCTACCTGGTCCATGCTGCCAGACGTGGT
 GGATGACTTTTCACTGCAGCACCGTCACGGGCCAGGCCCTGGAGACCATCTTCTACTCCTCTACGCTTTC
 TTCACCAAGCTGTCTGGCGCATGTGCCCTGGGCATCTCCACCTCAGTCTGGAGTTCTCGGGGTATAAGG
 CAGGGGTCTGCAAGCAAGCAGAGGAGGTGGTGGTCAACCTCAAAGTCTCATTGGCGCCGTGCCACCTG
 CATGATCCTTGTGGGCTCTGCATCCTCATGGTCGGCTCCACTCAAAGACACCCAGTCGGGACGCCTCC
 AGCCGGCTGAGCCTTCGGAGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

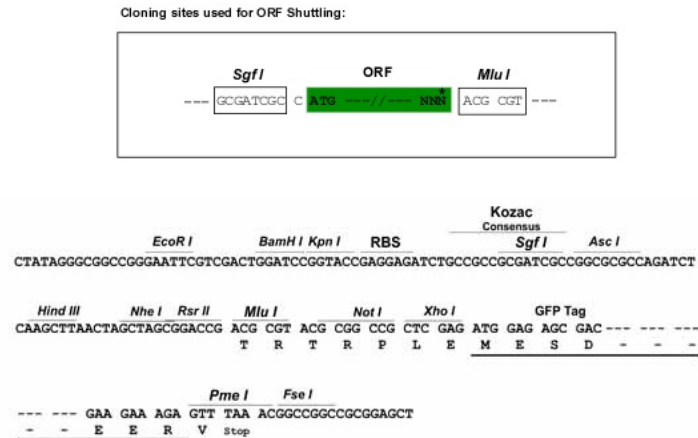
>RG214472 representing NM_001080473
 Red=Cloning site Green=Tags(s)

MAAPPAPAAKGSPQPEPHAPEPGPSAKRGREDSRAGRLSFCTKVCYIGGVPNQIASSATAFYLLQLLL
 DIAQIPAAQVSLVLFGGKVSGAAADPVAGFFINRSQRTGSGRLMPWVLGCTPFIALAYFFLWFLPPFTSL
 RGLWYTTFYCLFQALATFFQVPYALTMLLTPCPRERDSATAYRMTVEMAGTLMGATVHGLIVSGAHRPH
 RCEATATPGPVTVPNAHL YCIAAVVVVTPVCISLLCLGVKERPDPSAPASGPGLSFLAGLSLTTRH
 PPYLKLVISFLFISAAVQVEQSYLVLFCTHASQLHDHVQGLVLTVLVSAVLSTPLWEWVLQRFGKKTSAF
 GIFAMVPFAILLAAVPTAPVAYVAFVSGVSIIVSLLL PWSMLPDVDDFQLQHRHGPGLTIFYSSYVF
 FTKLSGACALGISTLSLEFSGYKAGVCKQAEVVVTLKVLIGAVPTCMILAGLCILMVGSTPKTPSRDAS
 SRLSLRR

TRTRPLE – GFP Tag – V

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.

RefSeq: [NM_001080473.1](#), [NP_001073942.1](#)

RefSeq Size: 1508 bp

RefSeq ORF: 1494 bp

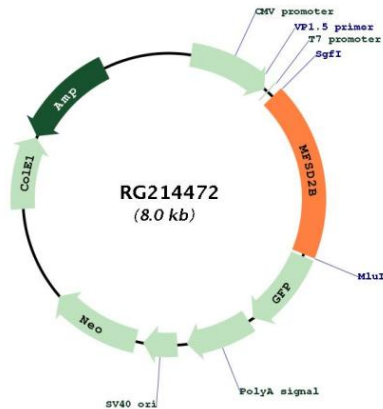
Locus ID: 388931

Cytogenetics: 2p23.3

Protein Families: Transmembrane

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 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 RG214472