

Product datasheet for **RG204264**

MFSD2A (NM_032793) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD2A (NM_032793) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MFSD2A
Synonyms:	MCPH15; MFSD2; NEDMISBA; NLS1; SLC59A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204264 representing NM_032793
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAAGGAGAAGGCGCCGAGAGCGGCTCCGCGGCGGGCTGCTACCCACCAGCATCTCCAAAGCA
 CTGAACGCCCGGCCAGGTGAAGAAAGAACCGAAAAAGAAGAAACAACAGTTGTCTGTTTGAACAAGCT
 TTGCTATGCACCTTGGGGAGCCCCCTACCAGGTGACGGGCTGTGCCCTGGGTTTCTTCTTCAGATCTAC
 CTATTGGATGTGGCTCAGGTGGGCCCTTCTCTGCCTCCATCATCCTGTTTGTGGCCGAGCCTGGGATG
 CCATCACAGACCCCTGGTGGGCTCTGCATCAGCAAATCCCCCTGGACCTGCCTGGTGCCTTATGCC
 CTGGATCATCTTCTCCACGCCCTGGCCGTCATTGCCTACTTCTCATCTGGTTCGTGCCGACTTCCCA
 CACGGCCAGACCTATTGGTACCTGCTTTTCTATTGCCTTTTGAACAATGGTACGTGTTTCCATGTTT
 CCTACTCGGCTCTCACCATGTTTCATCAGCACCGAGCAGACTGAGCGGGATTCTGCCACCGCTATCGGAT
 GACTGTGGAAGTCTGGGCACAGTCTGGGCACGGCGATCCAGGGACAAATCGTGGCCAAGCAGACACG
 CCTTGTTCAGGACCTCAATAGCTCTACAGTAGCTTCAAAAGTGCCAACCATACATGGCACCACCT
 CACACAGGGAAACGCAAAAGGCATACCTGCTGGCAGCGGGGTCATTGTCTGTATCTATAATCTGTGC
 TGTATCTGATCCTGGGCGTGGGGAGCAGAGAGAACCCTATGAAGCCAGCAGTCTGAGCCAATCGCC
 TACTTCCGGGGCTACGGCTGGTGCATGAGCCACGGCCATACATCAAACCTATTACTGGCTTCTCTTCA
 CCTCTTGGCTTTCATGCTGGTGGAGGGGAACCTTGTCTGTTTTGCACCTACACCTTGGGCTTCCGCAA
 TGAATTCAGAATCTACTCCTGGCCATCATGCTCTCGGCCACTTAACCATTCATCTGGCAGTGGTTC
 TTGACCCGGTTTGGCAAGAAGACAGCTGTATATGTTGGGATCTCATCAGCAGTGCATTTCTCATCTTGG
 TGGCCCTCAGGAGATAACCTCATATTACATATGCGGTAGCTGTGGCAGCTGGCATCAGTGTGGCAGC
 TGCCCTTACTACCCTGGTCCATGCTGCCTGATGTCATTGACGACTTCCATCTGAAGCAGCCCCACTTC
 CATGGAACCGAGCCCATCTTCTCTCTCTATGTCTTCTTACCAAGTTTGCCTCTGGAGTGTCACTGG
 GCATTTCTACCCTCAGTCTGGACTTTGCAGGGTACCAGACCCGTGGCTGCTCGCAGCCGGAACGTGCA
 GTTTACACTGAACATGCTCGTGACCATGGCTCCCATAGTTCTCATCTGCTGGGCTGCTGCTCTTCAA
 ATGTACCCATTGATGAGGAGAGCGCGGCAGAAATAAGAAGGCCCTGCAGGCACAGGAGACGAGGCCA
 GCAGCTCTGGCTGCTCAGAAACAGACTCCACAGAGCTGGTAGCATCTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204264 representing NM_032793
 Red=Cloning site Green=Tags(s)

MAKGEGAESGSAAGLLPTSILQSTERPAQVKKEPKKKKQQLSVCNKLCYALGGAPYQVTGCALGFFLQIY
 LLDVAQVGPFSASIIILFVGRAWDAITDPLVGLCISKSPWTCGLRMLPWIIFSTPLAVIAYFLIWFVPDFP
 HGQTYWYLLFYCLFETMVTFCFHPYSALTMFISTEQTERDSATAYRMTVEVLGTVLGTAIQQQIVGQADT
 PCFQDLNSSTVASQSANHTHTTSHRETQKAYLLAAGVIVCIYIICAVILILGVREQREPYEAQQSEPIA
 YFRGLRLVMSHGPYIKLITGFLFTSLAFMLVEGNFVLFCTYTLGFRNEFNLLLLAIMLSATLTIPIWQWF
 LTRFGKKTAVYVGISSAVPFLILVALMESNLIITYAVAVAAGISVAAAFLLPWSMLPDVIDDFHLKQPHF
 HGTEPIFFSFYVFFTKFASGVSLGISTLSLDFAGYQTRGCSQPERVKFTLNMLVTMAPIVILLGLLLFK
 MYPIDEERRRQNKALQALRDEASSGSETDSTELASIL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_032793

ORF Size: 1590 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

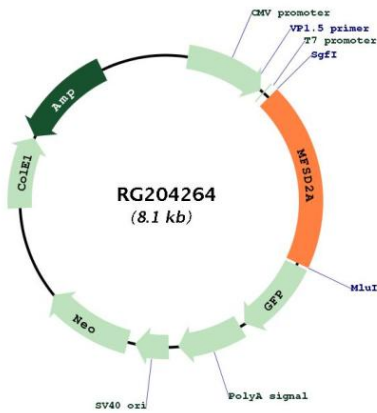
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_032793.5](#)

RefSeq Size: 2170 bp
 RefSeq ORF: 1593 bp
 Locus ID: 84879
 UniProt ID: [Q8NA29](#)
 Cytogenetics: 1p34.2
 Protein Families: Transmembrane
 Gene Summary:

The protein encoded by this gene is a transmembrane protein and sodium-dependent lysophosphatidylcholine transporter. The encoded protein is involved in the establishment of the blood-brain barrier and is required for brain growth and function. Defects in this gene are a cause of a progressive microcephaly syndrome. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RG204264