

Product datasheet for **RG226884**

MFSD2A (NM_001136493) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD2A (NM_001136493) 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)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG226884 representing NM_001136493
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCCAAAGGAGAAGGCGCCGAGAGCGGCTCCGCGCGGGGCTGCTACCCACCAGCATCCTCAAAGCA
 CTGAACGCGCCGCGCCAGGTGAAGAAAGAACCGAAAAAGAAACAACAGTTGTCTGTTTGAACAAGCT
 TTGCTATGCACCTTGGGGAGCCCCCTACCAGGTGACGGGCTGTGCCCTGGGTTTCTTCTTCAGATCTAC
 CTATTGGATGTGGCTCAGAAGGATGAGGAAGTTGTCTTTTGTCTCTCATTCCAGGTGGGCCCTTTCT
 CTGCCCTCATCATCTGTTTGTGGGCGGAGCCTGGGATGCCATCAGACCCCCCTGGTGGCCTCTGCAT
 CAGCAAATCCCCCTGGACCTGCCTGGTGCCTTATGCCCTGGATCATCTTCTCCACGCCCTGGCCGTC
 ATTGCCTACTTCTCATCTGGTTCGTGCCGACTTCCACACGGCCAGACCTATTGGTACCTGCTTTTCT
 ATTGCCTCTTTGAAACAATGGTCACGTGTTTCCATGTTCCCTACTCGGCTCTACCATGTTTCATCAGCAC
 CGAGCAGACTGAGCGGGATTCTGCCACCGCCTATCGGATGACTGTGGAAGTCTGGGCACAGTGTGGGC
 ACGGCGATCCAGGGACAAATCGTGGGCCAAGCAGACACGCCTGTTTCCAGGACCTCAATAGCTCTACAG
 TAGCTTACAAAGTGCCAACCATACACATGGCACCACCTCACACAGGGAACGAAAAGGCATACCTGCT
 GGCAGCGGGGTCATTGTCTGTATCTATAATCTGTGCTGTATCCTGATCCTGGGCGTGCGGGAGCAG
 AGAGAACCCTATGAAGCCAGCAGTCTGAGCCAATCGCCTACTTCCGGGGCTACGGCTGGTCATGAGCC
 ACGGCCCATACATCAAATTAATTACTGGCTTCTCTTACCTCCTTGGCTTTTATGCTGGTGGAGGGGAA
 CTTTGTCTTGTGTTGACCTACACCTTGGGCTTCCGCAATGAATCCAGAATCTACTCCTGGCCATCATG
 CTCTCGGCCACTTAACCATTCCTATCTGGCAGTGGTCTTGTGACCCGTTTGGCAAGAAGACAGCTGTAT
 ATGTTGGGATCTCATCAGCAGTGCCATTTCTCATCTTGGTGGCCCTCATGGAGAGTAACCTCATCATTAC
 ATATGCGGTAGCTGTGGCAGCTGGCATCAGTGTGGCAGCTGCCTTCTTACTACCTGGTCCATGCTGCCT
 GATGTCATTGACGACTTCCATCTGAAGCAGCCCACTTCCATGGAACCGAGCCCATCTTCTCTCTTCT
 ATGTCTTCTTACCAAGTTTGCCTCTGGAGTGTCACTGGGCATTCTACCCTCAGTCTGGACTTTGCAGG
 GTACCAGACCCGTGGCTGCTCGCAGCCGGAACGTGTCAAGTTTAACTGAACATGCTCGTGACCATGGCT
 CCCATAGTTCTCATCTGCTGGGCTGCTGCTCTTCAAATGTACCCATTGATGAGGAGAGGGCGCGGC
 AGAATAAGAAGGCCCTGCAGGCACTGAGGGACGAGGCCAGCAGCTCTGGCTGCTCAGAAACAGACTCCAC
 AGAGCTGGCTAGCATCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226884 representing NM_001136493
 Red=Cloning site Green=Tags(s)

MAKGEGAESGSAAGLLPTSILQSTERPAQVKKEPKKKKQQLSVCNKL CYALGGAPYQVTGCALGFFLQIY
 LLDVAQKDEEVVFCSSQVGPFSASIIILFVGRWDAITDPLVGLCISKSPWTCGLRMPWIIIFSTPLAV
 IAYFLIWFVPDFPHGQTYWYLLFYCLFETMVTCTFHPYSALTMFISTEQTERDSATAYRMTVEVLGTVLG
 TAIQGGIVGQADTPCFQDLNSSTVASQSANHTHTTSHRETQKAYLLAAGVIVCIYIICAVILILGVREQ
 REPYEAQQSEPIAYFRGLRLVM SHGPYIKLITGFLFTSLAFMLVEGNFVLFCTYTLGFRNEFQNLLLAIM
 LSATLTIPIWQWFLTRFGKKTAVYVGISSAVPFLILVALMESNLIITYAVAVAAGISVAAAFLLPWSMLP
 DIVDDFHLKQPHFHGTEPIFFSFYVFTKFASGVSLGISTLSLDFAGYQTRGCSQPERVKFTLNMLVTMA
 PIVLILLGLLLFKMYPIDEERRRQNKALQALRDEASSSGCSETDSTELASIL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001136493

ORF Size: 1629 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_001136493.3](#)

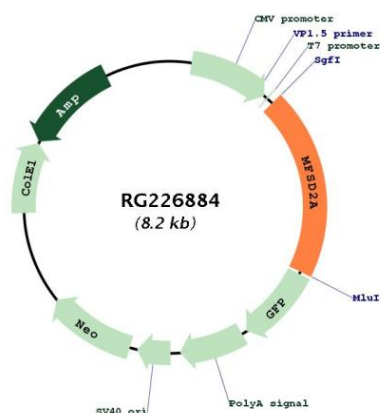
RefSeq Size: 2231 bp

RefSeq ORF: 1632 bp

Locus ID: 84879

UniProt ID:	<u>Q8NA29</u>
Cytogenetics:	1p34.2
Protein Families:	Transmembrane
MW:	60.2 kDa
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 RG226884