

## Product datasheet for **RC226884**

### MFSD2A (NM\_001136493) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD2A (NM_001136493) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MFSD2A
Synonyms:	MCPH15; MFSD2; NEDMISBA; NLS1; SLC59A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC226884 representing NM\_001136493  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCCAAAGGAGAAGGCGCCGAGAGCGGCTCCGCGGCGGGCTGCTACCCACCAGCATCTCCAAAGCA  
 CTGAACGCCCGCCAGGTGAAGAAAGAACCGAAAAAGAAGAAACAACAGTTGTCTGTTTGAACAAGCT  
 TTGCTATGCACCTTGGGGAGCCCCCTACCAGGTGACGGGCTGTGCCCTGGGTTTCTTCTTCAGATCTAC  
 CTATTGGATGTGGCTCAGAAGGATGAGGAAGTTGTCTTTTGTCTCCTCATTCCAGGTGGGCCCTTTCT  
 CTGCCCTCATCATCTGTTTGTGGGCGGAGCCTGGGATGCCATCACAGACCCCCTGGTGGCCTCTGCAT  
 CAGCAAATCCCCCTGGACCTGCCTGGTGCCTTATGCCCTGGATCATCTTCTCCACGCCCTGGCCGTC  
 ATTGCCTACTTCTCATCTGGTTCGTGCCGACTTCCACACGGCCAGACCTATTGGTACCTGCTTTTCT  
 ATTGCTCTTTGAAACAATGGTCAGTGTTCATGTTCCCTACTCGGCTCTACCATGTTTCATCAGCAC  
 CGAGCAGACTGAGCGGGATTCTGCCACCGCCTATCGGATGACTGTGAAGTGTGGGCACAGTGTGGGC  
 ACGGCGATCCAGGGACAATCGTGGGCCAAGCAGACACGCCTGTTTCCAGGACCTCAATAGCTCTACAG  
 TAGCTTACAAAGTGCCAACCATACACATGGCACCACCTCACACAGGAAACGAAAAGGCATACCTGCT  
 GGCAGCGGGGTCATTGTCTGTATCTATAATCTGTGCTGTCATCCTGATCCTGGGCGTGGGGAGCAG  
 AGAGAACCCTATGAAGCCAGCAGTCTGAGCCAATCGCCTACTTCCGGGGCTACGGCTGGTCATGAGCC  
 ACGGCCATACATCAAATTAATCTGGCTTCTCTTACCTCCTTGGCTTTTCTGCTGGTGGAGGGGAA  
 CTTTGTCTTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
 CTCTCGGCCACTTAACCATCCCATCTGGCAGTGGTTCCTGACCCGGTTTGGCAAGAAGACAGCTGTAT  
 ATGTTGGGATCTCATCAGCAGTGCATTTCTCATCTTGGTGGCCCTCATGGAGAGTAACCTCATCATTAC  
 ATATGCGGTAGCTGTGGCAGCTGGCATCAGTGTGGCAGCTGCCTTCTTACTACCCTGGTCCATGCTGCCT  
 GATGTCATTGACGACTTCCATCTGAAGCAGCCCACTTCCATGGAACCGAGCCCATCTTCTTCTCTTCT  
 ATGCTTCTTACCAAGTTTGCCTCTGGAGTGTCACTGGGCATTTCTACCCTCAGTCTGGACTTTGCAGG  
 GTACCAGACCCGTGGCTGCTCGCAGCCGGAACGTGTCAAGTTTACTGAAACATGCTCGTACCATTGGCT  
 CCCATAGTTCTCATCTGCTGGGCTGCTGCTCTTCAAATGTACCCATTGATGAGGAGAGGCGGCGGC  
 AGAATAAGAAGGCCCTGCAGGCACTGAGGGACGAGGCCAGCAGCTCTGGCTGCTCAGAAACAGACTCCAC  
 AGAGCTGGCTAGCATCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC226884 representing NM\_001136493  
 Red=Cloning site Green=Tags(s)

MAKGEGAESGSAAGLLPTSILQSTERPAQVKKEPKKKKQQLSVCNKL CYALGGAPYQVTGICALGFFLQIY  
 LLDVAQKDEEVVFCSSQVGPFSASIIILFVGRWDAITDPLVGLCISKSPWTCGLRMPWIIIFSTPLAV  
 IAYFLIWFVPDFPHGQTYWYLLFYCLFETMVTFCFHPYSALTMFISTEQTERDSATAYRMTVEVLGTVLG  
 TAIQGGQIVGQADTPCFQDLN SSTVASQSANHTHTTSHRETQKAYLLAAGVIVCIYIICAVILILGVREQ  
 REPYEAQQSEPIAYFRGLRLVMSHGPIKLIITGFLFTSLAFMLVEGNFVLFCTYTLGFRNEFQNL LLAIM  
 LSATLTIPIWQWFLTRFGKKTAVYVYVGISSAVPFLILVALMESNLIITYAVAVAAGISVAAAFLLPWSMLP  
 DIVIDDFHLKQPHFHGTEPIFFSFYVFFTKFASGVSLGISTLSLDFAGYQTRGCSQPERVKFTLNMLVTMA  
 PIVLILLGLLLFKMYPIDEERRRQNKALQALRDEASSSGCSETDSTELASIL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg4691\\_g01.zip](https://cdn.origene.com/chromatograms/mg4691_g01.zip)

**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.

**RefSeq:** [NM\\_001136493.3](#)

**RefSeq Size:** 2231 bp

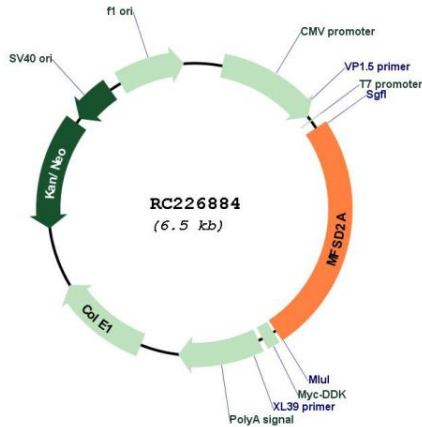
**RefSeq ORF:** 1632 bp

**Locus ID:** 84879

**UniProt ID:** [Q8NA29](#)

**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 RC226884