

## Product datasheet for **SC104640**

### MFSD2A (AK093223) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD2A (AK093223) Human Untagged Clone
Tag:	Tag Free
Symbol:	MFSD2A
Synonyms:	MCPH15; MFSD2; NLS1
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >NCBI ORF sequence for AK093223, the custom clone sequence may differ by one or more nucleotides

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ATGGCCAAAGGAGAAGGCGCCGAGAGCGGCTCCGCGGCGGGGCTGCTACCCACCAGCATCTCCAAAGCA
CTGAACGCCCGCCAGGTGAAGAAAGAACCGAAAAAGAAGAAACAACAGTTGTCTGTTTGAACAAGCT
TTGCTATGCACCTGGGGGAGCCCCCTACCAGGTGACGGGCTGTGCCCTGGGTTTCTTCTCAGATCTAC
CTATTGGATGTGGCTCAGAAGGATGAGGAAGTTGTCTTTTGTCTTCTCCTATTCCAGGTGGGCCCTTCT
CTGCCCTCATCATCTGTTTGTGGGCGAGCCTGGGATGCCATCAGACACCCCTGGTGGCCTCTGCAT
CAGCAAATCCCCCTGGACCTGCCTGGTGCCTTATGCCCTGGATCATCTTCTCCACGCCCTGGCCGTC
ATTGCCTACTTCTCATCTGGTTCGTGCCGACTTCCACACGGCCAGACCTATTGGTACCTGCTTTTCT
ATTGCCTCTTTGAAACAATGGTCACGTGTTTCCATGTTCCCTACTCGGCTCTCACCATGTTTCATCAGCAC
CGAGCAGACTGAGCGGGATTCTGCCACCGCCTATCGGATGACTGTGGAAGTGTGGGCACAGTGTGGC
ACGGCGATCCAGGGACAAATCGTGGGCCAAGCAGACACGCCTGTTTCCAGGACCTCAATAGCTCTACAG
TAGCTTACAAAGTGCCAACCATACACATGGCACCACCTCACACAGGGAAACGAAAAGGCATACCTGCT
GGCAGCGGGGTCATTGTCTGTATCTATAATCTGTGCTGTATCCTGATCCTGGGCGTGGGGAGCAG
AGAGAACCCTATGAAGCCAGCAGTCTGAGCCAATCGCCTACTTCCGGGGCTACGGCTGGTTCATGAGCC
ACGGCCCATACATCAAATTTACTGGCTTCTTTCACCTCCTTGGCTTTTCATGCTGGTGGAGGGGAA
CTTTGTCTTGTGTTGACCTACACCTTGGGCTTCCGCAATGAATTCAGAATCTACTCCTGGCCATCATG
CTCTCGGCCACTTTAACCATTCCCATCTGGCAGTGGTCTTGACCCGTTTGGCAAGAAGACAGCTGTAT
ATGTTGGGATCTCATCAGCAGTGCCATTTCTCATCTTGGTGGCCCTCATGGAGAGTAACCTCATATTAC
ATATGCGGTAGCTGTGGCAGCTGGCATCAGTGTGGCAGCTGCCTTCTTACTACCTGGTCCATGCTGCT
GATGTCAATTGACACTTCCATCTGAAGCAGCCCCACTTCCATGGAACCGAGCCCATCTTCTCTCTTCT
ATGCTTCTTTCACCAAGTTTGCCTCTGGAGTGTCACTGGGCATTCTACCCTCAGTCTGGACTTTGCAGG
GTACCAGACCCGTGGCTGCTCGCAGCCGGAACGTGCAAGTTTACTGAACATGCTCGTACCATGGCT
CCCATAGTTCTCATCCTGCTGGGCTGCTGCTTCAAATGTACCCATTGATGAGGAGAGGCGGCGGC
AGAATAAGAAGGCCCTGCAGGCACTGAGGGACGAGGCCAGCAGCTCTGGCTGCTCAGAAACAGACTCCAC
AGAGCTGGCTAGCATCTCTAG
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for AK093223 unedited

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NNNGGTTAAAGTCCAGACCTTGTAAACGACTCAACTATAGGCGGCCGCCGAATTCGCACG
AGTGCAGCCGGCTTTGGCCAGCGCGCCGCGGCGTGGCTAAGGCTGCTACGAAGCGAGC
TTGGGAGGAGCAGCGGCCTGCGGGGAGAGGAGCATCCCGTCTACCAGGTCCCAAGCGGC
GTGGCCCGCGGGTTCATGGCCAAAGGAGAAGGCGCCGAGAGCGGCTCCGCGGCGGGGCTGC
TACCCACCAGCATCTCCAAAGCACTGAACGCCCGGCCAGGTGAAGAAAGAACCAGAAA
AGAAGAAACAACAGTTGTCTGTTTGAACAAGCTTTGCTATGCATTGGGGGAGCCCCCT
ACCAGGTGACGGGCTGTGCCCTGGGTTTCTTCTTCCAGATCTACCTATTGGATGTGGTC
AGGTGGGCCCTTTCTCTGCCTCCATCATCTGTTTGTGGGCGGAGCCTGGGATGCCATCA
CAGACCCCTGGTGGGCTCTGCATCAGCAAATCCCCCTGGACCTGCCTGGTGCCTTA
TGCCCTGGATCATCTTCTCCACGCCCTGGCCGTCATTGGCTACTTCTCATCTGGTTCCG
TGCCCGACTTCCACACGGCCAGACCTATTGGTACCTGCTTTTCTATTGCCTCTTTGAAA
CAATGGTCACGTGTTTCCATGTTCCCTACTCGGCTCTCACCATGTTTCATCAGCACCGAGC
AGACTGAGCGGGATTCTGCCACCGCCTATCGGATGACTGTGGAAGTGTGGGCACAGTGC
TGGGCACGGCGATCCAGGGACANATCGTGGGCCAAGCAGACACGCCTGTTTCCAGGACC
TCAATAGCTCTACAGTAGCTTACAAAGTGCCAACCATACACATGGGCACCACCTCACAC
A
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for AK093223 unedited NNTTTCACCTCTGNAACCGCGGCCGCATNCTAGNGATCGGTTT TTTTTTTTTTTTTTGGCTTCCAACCTTTTATGAAAATTAATAACATTAATAGCTCACAGACC TATACCTACCCACACATTGGTTTGTACACAGTCATTAAGTTATTAATTAAGCTCTGTAAA AAAAAGTTCTACATTAATGTTCCGGGCTAGGCCGATCAATCCTTGGCATATTCACAGT GGCAGCCCCAGGGCTTGGCCCCACAAGCAGGCAAAGGGGAGGCAGGAGGCCACAAAACAA CCGGCCCCACAGTGAGCACAACAAGTGTCTGGGCCACCTCCTTGAGTCTTCAATTCCT TTCTAACACCTGCAGTCCAAGTCTCAACAAGCCGGCAGACAGGTCTGATCCCTTCTGT GGCTTCTGCATGGGGCTTCGGCAACGTGGCGGCCCTAGAGAGATGCTAGCCAGCTC TGTGGAGTCTGTTTCTGAGCAGCCAGAGACTGCTGGCCTCGTCCCTCAGTGCCTGCAGGG CCTTCTTATTCTGCCGCGGCTCTCCTCATCAATGGGGTACATTTTGAAGAGCAGCAGGC CCAACAGGATGAGAACTATTGGAGCCATGGTCACGAGCATGTTTCAGTGGAAAAGTACAC GTTCCGGTGGGAGCANCCAGGGTTTGGTACCCTGCAAAGCCAGACTGAGGGTAAAAAT GCCCATGACACTCAAAGGAACTTGTGTANAAAACCTTTNAGGGAAAAAAGGGCCTCGG TCCATGAAAGGGGCTGGTTTCAAGGGAAGCCGAATGACATACGCCCTTTGGCAAGGGTT ATAAAAGGCCTTCCCCCTGTCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK093223
<b>Insert Size:</b>	2100 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">AK093223.1</a> , <a href="#">BAC04100.1</a>
<b>RefSeq Size:</b>	2161 bp
<b>RefSeq ORF:</b>	1632 bp
<b>Locus ID:</b>	84879
<b>Cytogenetics:</b>	1p34.2
<b>Protein Families:</b>	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]