

## Product datasheet for **SC100793**

### MFSD8 (NM\_152778) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | MFSD8 (NM_152778) Human Untagged Clone |
| Tag:                      | Tag Free                               |
| Symbol:                   | MFSD8                                  |
| Synonyms:                 | CCMD; CLN7                             |
| Mammalian Cell Selection: | None                                   |
| Vector:                   | <u><a href="#">pCMV6-XL4</a></u>       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                 |



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**Fully Sequenced ORF:** >OriGene ORF within SC100793 sequence for NM\_152778 edited (data generated by NextGen Sequencing)

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ATGGCCGGCCTGCGGAACGAAAGTGAACAGGAGCCGCTCTTAGGCGACACACCTGGAAGC
AGAGAAATGGGACATTTTAGAGACTGAAGAGCATTATAAGAGCCGATGGAGATCTATTAGG
ATTTTATATCTTACTATGTTTCTCAGCAGTGTAGGGTTTTCTGTAGTGATGATGTCCATA
TGGCCATATCTCCAAAAGATTGATCCGACAGCTGATACAAGTTTTTTGGGCTGGGTATT
GCTTCATATAGTCTTGGCCAAATGGTAGCTTACCTATATTTGGTTTTATGGTCTAATTAT
AGACCAAGAAAAGAGCCTCTTATTGTCTCCATCTTGATTTCCGTGGCAGCCAACCTGCCTC
TATGCATATCTCCACATCCCAGCTTCTCATAATAAATACTACATGCTGGTTGCTCGTGGA
TTGTTGGGAATTGGAGCAGGAAATGTAGCAGTTGTTAGATCATATACTGCTGGTGTACT
TCCCTTCAGGAAAGAACAAGTTCATGGCAAACATAAGCATGTGTCAAGCATTAGGTTTT
ATTCTAGTCCAGTTTTTTCAGACTTGTTCATTCCCTGGAGAAAAAGGTGTGACATGG
GATGTGATTAAGTGCAGATAAACATGTATAACAACACAGTTTTACTTAGCGCTTCCTG
GGAATTTTAAATATTATTCTGATCCTTGCCATACTAAGAGAACATCGTGTGGATGACTCA
GGAAGACAGTGTAAAAGTATTAATTTTGAAGAAGCAAGTACAGATGAAGCTCAGGTTCCC
CAAGGAAATATTGACCAGTTGCTGTTGTGGCCATCAATGTTCTGTTTTTTGTGACTCTA
TTTATCTTTGCCCTTTTTGAAACCATCATTACTCCATTACAATGGATATGTATGCCTGG
ACTCAAGAAACAGCTGTGTTATATAATGGCATAACTTGTGCTCTTGGGGTTGAAGCC
GTTGTTATTTTCTTAGGAGTTAAGTTGCTTTCCAAAAGATTGGCGAGCGTGCTATTCTA
CTGGGAGGACTCATCGTTGTATGGGTTGGCTTCTTTATCTTGTACCTTGGGAAATCAA
TTTCCAAAATACAGTGGGAAGATTTGCACAATAATTCAATCCCTAATACCACATTTGGG
GAAATTTATTGGTCTTTGGAAGTCTCCAATGGAAGATGACAATGAAAGACCAACTGGT
TGCTCGATTGAACAAGCCTGGTGCCTACACCCCGGTGATTTCATCTGGCCAGTTCCTT
ACATCAGCTGTGCTAATAGGATTAGGCTATCCAGTCTGCAATCTTATGTCTTACTACTA
TATTCAAAAATTCTAGGACCAAAACCTCAGGGTGTATACATGGGCTGGTTAACAGCATCT
GGAAGTGGAGCCCGATTCTTGGCCTATGTTTCATCAGCCAAGTGTATGCTCACTGGGGA
CCACGATGGGCATTCAGCCTGGTGTGTGGAATAATAGTGCTCACCATCACCCTCCTGGGA
GTGTTTTACAAAAGACTCATTGCTCTTTCTGTAAGATATGGGAGGATTCAGGAATAA

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Clone variation with respect to NM\_152778.2

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_152778 unedited

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CGGGATGGGAGAAAGCAGGTGTCGCGAGAGTTGGGCGCAAGACGCCTTGTAGGGAGTGA
ACTATGGCCGGCCTGCGGAACGAAAGTGAACAGGAGCCGCTCTTAGGCGACACACCTGGA
AGCAGAGAATGGGACATTTTAGAGACTGAAGAGCATTATAAGAGCCGATGGAGATCTATT
AGGATTTTATATCTTACTATGTTTCTCAGCAGTGTAGGGTTTTCTGTAGTGATGATGTCC
ATATGGCCATATCTCCAAAAGATTGATCCGACAGCTGATACAAGTTTTTTGGGCTGGGT
ATTGCTTCATATAGTCTTGGCCAAATGGTAGCTTACCTATATTTGGTTTTATGGTCTAAT
TATAGACCAAGAAAAGAGCCTCTTATTGTCTCCATCTTGATTTCCGTGGCAGCCAACCTGC
CTCTATGCATATCTCCACATCCCAGCTTCTCATAATAAATACTACATGCTGGTTGCTCGT
GGATTGTTGGGAATTGGAGCAGGAAATGGTAGCAGTTGTTAGATCATATACTGCTGGTGC
TACTTCCCTTCAGGAAAGAACAAGTTCATGGCAAACATAAGCATGTGTCAAGCATTAGG
TTTTATTCTAGTCCAGTTTTTTCAGACTTGTTCATTCCCTGGAGAAAAAGGTGTGA
CATGGGATGT

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**Restriction Sites:** NotI-NotI  
**ACCN:** NM\_152778  
**Insert Size:** 4700 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="#">NM_152778.1</a> , <a href="#">NP_689991.1</a>   |
| <b>RefSeq Size:</b>           | 1909 bp   |
| <b>RefSeq ORF:</b>            | 1557 bp   |
| <b>Locus ID:</b>              | 256471  |
| <b>UniProt ID:</b>            | <a href="#">Q8NHS3</a>  |
| <b>Cytogenetics:</b>          | 4q28.2  |
| <b>Domains:</b>               | sugar_tr  |
| <b>Protein Families:</b>      | Transmembrane   |
| <b>Protein Pathways:</b>      | Lysosome  |
| <b>Gene Summary:</b>          | <p>This gene encodes a ubiquitous integral membrane protein that contains a transporter domain and a major facilitator superfamily (MFS) domain. Other members of the major facilitator superfamily transport small solutes through chemiosmotic ion gradients. The substrate transported by this protein is unknown. The protein likely localizes to lysosomal membranes. Mutations in this gene are correlated with a variant form of late infantile-onset neuronal ceroid lipofuscinoses (vLINCL). [provided by RefSeq, Oct 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p> |