

Product datasheet for **RG207884**

MFSD1 (NM_022736) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD1 (NM_022736) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MFSD1
Synonyms:	Minerva; SMAP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG207884 representing NM_022736
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGAGGAGGATGAGGAAGCGGGCGCTCCTGGCAGCGGCCCTGACGAGGCCGACAGAGGTGCC
 CGGCCGCCCTGGAGCCCTGCCGCCCTCTGCGACCCAGTCGCCTGGCGCACCGCTTTTGGTGTGTT
 ACTGATGTGCTTCTTGGCTTTGGCAGCTATTTTTGCTATGATAATCCTGCTGCCCTCAGACTCAAGT
 AAACGAGATATGCAAGTGAATACCACGAAATTCATGCTGCTGTATGCCTGGTATTCTTGGCCAATGTAG
 TTTTGTGTTTCTTGGTGGCTTTTGTAGACCGAGTATTTGGAATACGATGGGGACAATCATTTTTAG
 CTGCTTTGTTGCATTGGACAGTTGTTTTGCCCTGGTGAATATTTAATGCTTTTGGCTGATGGAA
 TTTGGAAGATTTGATTTGGGATTGGTGGCGAGTCCTTAGCAGTTGCCAGAATACATATGCTGTGAGCT
 GGTAAAGCGAAGAATTAACCTGGTGTGGACTTCAACTTAGCATGGCTAGAATTGGAAGTACAGT
 AAACATGAACCTCATGGGATGGCTGTATTCTAAGATTGAAGCTTTGTTAGTTCTGCTGGTCACACAACC
 CTGGGATCACACTTATGATTGGGGTATAACGTGATTCTTTACTAATCTGTGCCCTGGCTCTTGCT
 ACTTGATCAGAGAGCAGAGAGAATCCTTCATAAAGAACAAGGAAAAACAGGTGAAGTTATTAATAAAC
 TGATGTAAGGACTTCTCCTTACCCCTGTGGCTTATTTATCATCTGTGTCTGCTATTATGTTGCTGTG
 TTCCCTTTTATTGGACTTGGGAAAGTTTCTTTACAGAGAAATTTGGATTTTCTCCAGGCAGCAAGTG
 CAATTAACAGTGTGTATATGTCATATCAGCTCCCATGTCCCGGTGTTGGGCTCCTGGTGGATAAAAC
 AGGGAAGAACATCATCTGGGTTCTTGGCAGTAGCAGCCACTCTGTGTCCACATGATGCTGGCCTTT
 ACGATGTGGAACCCTGGATTGCTATGTGCTTCTGGACTCTCCTACTCATTGCTTGCCTGTGCATTGT
 GGCCAATGGTGGCATTGTAGTTCTGAACATCAGCTGGGAATGCATATGGCTTCATGCATCCATTCA
 GAATCTGGGTTGGCCATCATTCCATCATTGCTGGTATGATACTGGATTCTCGGGGATTTGTTTTTG
 GAAGTGTCTTATTGCCTGTGTTTCTTTGCACTTTTATCTGTGGTCTTACTCTATTTGGTGAATCGTG
 CCCAGGTGGGAACCTAAATTATCTGCAAGACAAAGGGAAGAAATAAAATTTCCATACTGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207884 representing NM_022736
 Red=Cloning site Green=Tags(s)

MEEDEEARALLAGGPDEADRGAPAAPGALPALCDPSRLAHRLLVLLMCFLGFGSYFCYDNPAALQTQV
 KRDMQVNTTKFMLLYAWYSWPNVLCFFGGFLIDRVFGIRWGTIIFSCFVCIGQVVFALGGIFNAFWLME
 FGRFVFGIGGESLAVAQNTYAVSWFKGEELNLFGLQLSMARIGSTVNMNLMGWLYSKIEALLGSAGHTT
 LGITLMIGGITCILSLICALALAYLDQRAERILHKEQGKTGEVIKLTVDKDFSLPLWLIFIIICVCYVAV
 FPFIGLKVFFTEKFGFSSQAASAINSVVYVVISAPMSPVFGLLVDKTGKNIWVLCVAATLVSHMMLAF
 TMWNPWIAMCLLGLSYLLACALWPMVAFVVEHQVLTAYGFMQSIQNLGLAIIISIIAGMILDSRGYFL
 EVFFIACVSLSLLSVLLYLVNRAQGGNLYSARQREEIKFSHTE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_022736

ORF Size: 1395 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.

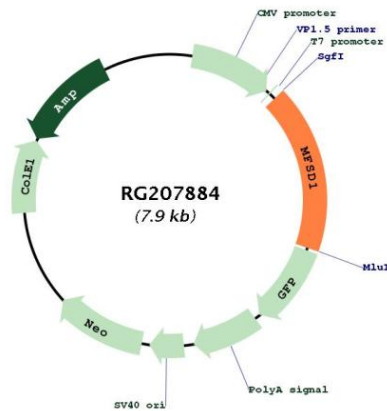
RefSeq: [NM_022736.1](#), [NP_073573.1](#)

RefSeq Size: 2161 bp

RefSeq ORF: 1398 bp

Locus ID: 64747

UniProt ID: [Q9H3U5](#)
Cytogenetics: 3q25.32
Domains: sugar_tr
Protein Families: Transmembrane
Gene Summary: Lysosomal transporter which is essential for liver homeostasis. Required to maintain stability and lysosomal localization of GLMP.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RG207884