

Product datasheet for **RG230139**

MFSD1 (NM_001167903) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD1 (NM_001167903) 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)



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ORF Nucleotide Sequence:

>RG230139 representing NM_001167903
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCGTGGCCCTGCGTGACCTGCCGGGCGTCACGTGAGCTCCCGAGTCATGTGACCGCCGTCTTGA
 CAGTGTTCCACGGGCGCTGCTTCCTGCCTGGGTTTGGAGTTGTACCACTTTCCCTCTCCGTCTCCTGC
 GGGCGCAATGGAGGAGGAGGATGAGGAAGCGCGGCGCTCCTGGCAGGCGGCCCTGACGAGGCCGACAGA
 GGTGCCCCGGCGCCCTGGAGCCCTGCCGGCCCTCTGCGACCCAGTCGCTGGCGCACCGGCTTTTGG
 TGCTGTTACTGATGTGCTTCCTTGGCTTTGCTATTTTGTATGATAATCCTGCTGCCCTTCAGACTCAA
 GTTAAACGAATGGGCGACAATCATTTTTAGCTGCTTTGTTTGCATTGGACAGTTGTTTTGCCCTGGGT
 GGAATATTTAATGCTTTTGGCTGATGGAATTTGGAAGATTTGATTTGGGATTGGTGGCGAGTCCTTAG
 CAGTTGCCAGAATACATATGCTGTGAGCTGGTTAAAGGCAAAGAATTAACCTGGTGTGGACTTCA
 ACTTAGCATGGCTAGAATTGGAAGTACAGTAAACATGAACCTCATGGGATGGCTGTATTCTAAGATTGAA
 GCTTTGTTAGGTTCTGCTGGTACACAACCCTCGGGATCACACTTATGATTGGGGGTATAACGTGTATTC
 TTCACTAATCTGTGCCTTGGCTCTTGCTACTTGGATCAGAGAGCAGAGAGAATCCTTCATAAAGAACA
 AGGAAAAACAGGTGAAGTTATTAATTAAGTATGTAAGGACTTCTCCTTACCCTGTGGCTTATATTT
 ATCATCTGTGCTGCTATTATGTTGCTGTGTTCCCTTTTATTGGACTTGGGAAAGTTTCTTTACAGAGA
 AATTTGGATTTTCTTCCAGGCGCAAGTGAATTAACAGTGTGTATATGTCATATCAGCTCCCATGTC
 CCCGGTGTGGGCTCCTGGTGGATAAAACAGGGAAGAACATCATCTGGGTTCTTGGCGAGTAGCAGCC
 ACTCTTGTGTCCACATGATGCTGGCCTTACGATGTGGAACCTTGGATTGCTATGTGTCTTCTGGGAC
 TCTCCTACTCATTGCTTGCTGTGATTGTGGCAATGGTGGCATTGTAGTTCTGAACATCAGCTGGG
 AACTGCATATGGCTTCATGCAGTCCATTAGAATCCTGGGTTGGCCATCATTTCCATCATTGCTGGTATG
 ATACTGGATTCTCGGGGTATTTGTTTTTGAAGTGTTCTTCATTGCCTGTGTTCTTTGTCACTTTTAT
 CTGTGGTCTTACTCTATTTGGTGAATCGTGCCAGGGTGGGAACCTAAATTATTCTGCAAGACAAAGGGA
 AGAAATAAAATTTCCCATACTGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

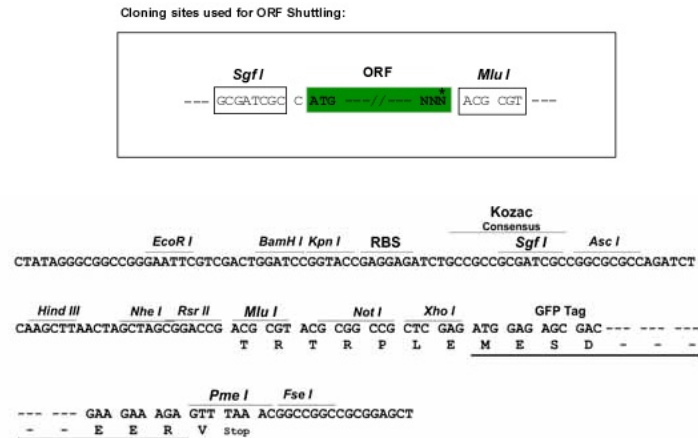
>RG230139 representing NM_001167903
 Red=Cloning site Green=Tags(s)

MGVALRDLPGRHVSSRSHTAVLTVFHGRCLPGFGVVTTFPSPSPAGAMEEEDDEARALLAGGPDEADR
 GAPAAPGALPALCDPSRLAHRLLVLLMCFLGFAIFAMIILLPRLKLNEWGTIIFSCFVCIGQVVFALG
 GIFNAFWLMEFGRFVFGIGGESLAVAQNTYAVSWFKGKELNLVFGQLQSMARIGSTVNMNLMGWLYSKIE
 ALLGSAGHTTLGITLMIGGITCILSLICALALAYLDQRAERILHKEQGKTGEVIKLTDVKDFSLPLWLI
 IICVCYVAVFPFIGLGKVFFTEKFGFSSQAASAINSVVYVISAPMSPVFGLLVDKTGKNIIWVLCVAA
 TLVSHMMLAFTMWPWIAMCLLGLSYSLALACALWPMVAFVPEHQLGTAYGMQSIQNLGLAIIISIIAGM
 ILDSRGYLFLEVFFIACVSLSLLSVLLYLVNRAQGGNLNYSARQREEIKFSHTE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001167903

ORF Size: 1425 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_001167903.1](#), [NP_001161375.1](#)

RefSeq Size: 2262 bp

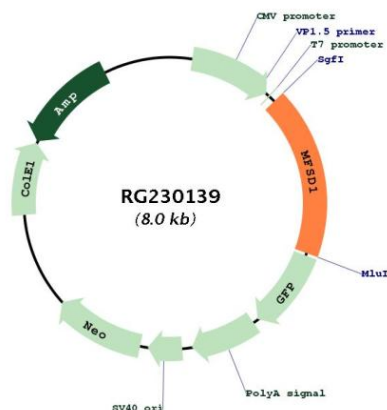
RefSeq ORF: 1281 bp

Locus ID: 64747

UniProt ID: [Q9H3U5](#)

Cytogenetics:	3q25.32
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 RG230139