

## Product datasheet for **RG209777**

### **MFSD5 (NM\_032889) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MFSD5 (NM_032889) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MFSD5
Synonyms:	hsMOT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG209777 representing NM\_032889  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGGTGA**CTGCCTACCTTGCTTTTGTAGGCCTCCTGGCCTCCTGCCTGGGGCTGGA**ACTGTCAAGAT  
 GCCGGCTAAACCCCTGGAAGGCCTGCAGCAATCCCTCCTTCCTTCGGTTCAACTGGACTTCTATCA  
 GGTCTACTTCTGGCCCTGGCAGCTGATTGGCTCAGGCCCTACCTCTATAAACTCTACCAGCATTAC  
 TACTTCTGGAAGGTCAAATTGCCATCCTCTATGTCTGTGGCCTTGCCTCTACAGTCTCTTTGGCCTAG  
 TGGCCTCCTCACTTGTGGATTGGCTGGTGCGAAGAATTCTTGTGTCTCTTCTCCCTGACTTACTCACT  
 ATGCTGCTTAACCAA**ACTCTCTCAAGACTACTTTGTGATGCTAGTGGGCGAGCACTTGGTGGGCTGTCC**  
 ACAGCCCTGCTTCTCAGCCTTCGAGGCCTGGTATATCCATGAGCACGTGGAACGGCATGACTTCCCTG  
 CTGAGTGGATCCAGCTACCTTTGCTCGAGCTGCCTTCTGGAACCATGTGCTGGCTGTAGTGGCAGGTGT  
 GGCAGCTGAGGCTGTAGCCAGCTGGATAGGGCTGGGGCTGTAGCGCCCTTTGTGGCTGCCATCCCTCTC  
 CTGGCTCTGGCAGGGCCCTTGGCCCTTCGAAACTGGGGGAGA**ACTATGACCGGCAGCGTGCCTTCTCAA**  
 GGACCTGTGCTGGAGGCCTGCGCTGCCTCCTGTGCGGACCGCCGCGTGTGCTGTTGGGCACCATA**CAAGC**  
 TCTATTTGAGAGTGT**CATCTT**CATCTTTGTCTTCTCTGGACACCTGTGCTGGACCCACACGGGGCCCT  
 CTGGGCATTATCTTCTCCAGCTT**CATGGCAGCCAGCCTGCTTGGCTTCCCTGTACCGTATCGCCACCT**  
 CCAAGAGGTACCACCTT**CAGCCCATGCACCTGCTGCCCTGTGCTGCTCATCGTCTTCTCTCTCTT**  
 CATGTTGACTTTCT**ACCAGCCAGGCCAGGAGAGTCCGGTGGAGTCC**TTCATAGCCTTCTACTTATT  
 GAGTTGGCTTGTGATTACTTTCCAGCATGAGCTTCTACGGAGAAAGGTGATCCCTGAGACAGAGC  
 AGGCTGGTGTACTCAACTGGTCCGGTACCTCTGCACCTACTGGCTTGCCTAGGGCTCCTTGTCCCTCA  
 TGACAGTGATCGAAAACAGGC**ACTCGGAATATGTT**CAGCATTGCTCTGCTGT**CATGGTATGGCTCTG**  
 CTGGCAGTGGTGGGACTT**TACCGTGGTAAGGCATGATGCTGAGCTGCGGGTACCTT**CACCTACTGAGG  
 AGCCCTATGCCCTGAGCTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG209777 representing NM\_032889  
 Red=Cloning site Green=Tags(s)

MLVTAYLAFVGLLASCLGLELSRCRAKPPGRACSNPSFLRFQLDFYQVYFLAALADWLQAPYLKLYQH  
 YFLEGQIAILYVGLASTVLFGLVASSLVDWLGRKN**SCVLSL**TYSLCCLTKLSQDYFVMLVGRALGGLS  
 TALLFSAFEAWYIHEHVERHDFPAEWIPATFARA**AFWNHVLAVVAGVAAEAVASWIGLGPVAPFVAAIPL**  
 LALAGALALRNWGENYDRQRAF**SRTCAGGLRCLLSDRRVLLLGTI**QALFESVIFIFVFLWTPVLDPHGAP  
 LGIIFSSFMAASLLGSSLYRIATSKRYHLQPMHLLSLAVLIVVFS**LFMLTFSTSPGQESPVESFIAFLLI**  
 ELACGLYFPSMSFLRRKVIPETE**QAGVLNWFVRPLHSLACL**GLLVLHSDRKTGTRNMF**SICSAVMVMAL**  
 LAVVGLFTVVRHDAELRVSPTEEPY**APEL**

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_032889

**ORF Size:** 1350 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\\_032889.2](#), [NP\\_116278.2](#)

**RefSeq Size:** 1761 bp

**RefSeq ORF:** 1353 bp

**Locus ID:** 84975

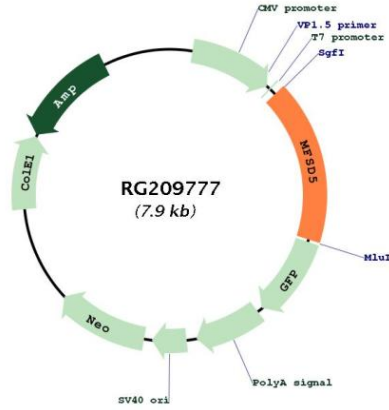
**UniProt ID:** [Q6N075](#)

**Cytogenetics:** 12q13.13

**Protein Families:** Transmembrane

**Gene Summary:** Mediates high-affinity intracellular uptake of the rare oligo-element molybdenum. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG209777