

Product datasheet for **RG206353**

MFSD4B (NM_153369) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MFSD4B (NM_153369) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MFSD4B
Synonyms:	KIAA1919; NaGLT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206353 representing NM_153369
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTGTGCCCTCTTCTGGGCTGGGATTGAGTGTGCTATAGTGGGACCCACGTTTCAAGATTGG
 CAACAAACGTGAACCGAAATATCAGTAGCTGTCTTTTCATTTTTGTGGTTCGTCCTTGGGATTTGAG
 TGGCTCTGTGATTGGTGGATTTCTGTGCGATGTCATGAATTATTTTTACTTTTTGGGAATCTCAATGTCG
 GCTACCACCGTTGGTCTTATCTTGTCTTTTTGCAAGACAGCAATATACTCACTGTCATGATGTCTA
 TCTTCGGTGTTCATTGGCATTCTGGATACAGGTGTAACGTCCTTATCTTGGCTATTTGGGGGACAA
 AGGAGCCCCACATATGCAGGCCTTACACTTCTCTTTTGCCTTGGGTGCCTTTTTGGCTCCACTGCTAGCT
 AAAGTGGCTTTGGTCCGACAGCGTCTGCTGAAAACACACAGAGTCTGACTTCCATCCTGCACTCAACC
 AATCATCTGATGCTGACTCAGAAGCTCTGTTGGAGTACCTAATGATAAGAATTTACTGTGGCTTATGC
 TGGTATCGGTACTTACATGTTCTTAGTTTCTGTCAATTTTTTTTGTCTGTTTTTAAAGAATAGCTCAAAG
 CAAGAAAAGCAAGACATCTGCTGAGACATTCGAAGAGCAAAATATCAACAACGCCCTTTTGTCTCC
 TTTTTCTGTTCTTTTTTTTATGTTGGAGCTGAGGTAACATATGGCTCTTATGTTTTCTCATTTGCAAC
 CACCCATGCTGGCATGAAAGAAAGTGAAGCTGCTGGGTTGAACCTCCATCTTCTGGGGACATTTGCAGCC
 TGCAGGGGCTGGCAATCTTTTTGCTACCTGTTTACAGCCTGGAACCATGATTGTGTTGAGCAACATTG
 GCAGCCTGACTTCATCTTTATTTCTGGTCTTTTTGACAAGAACCAATTTGCTCTGGATAGCAACTTC
 AGTGATAGGGCTTCAATGGCAACCACATTTCCGAGTGGTGTCTTGGATTGAGCAGTACACGACCATC
 CATGGGAAATCTGCAGCATTTTTGTAAATGGTCTTCCCTGGGAGAAATGGCTATTCTGCAAGTCAATG
 GAATTTCAAGGAAAATACCCTGATTTGCCTGTAGTTCTGTATACCTCTTTGGGAGCATCAATAGCTAC
 TGGTATTTTTATTCTGTGCTATATAAATTAGCCACTTACCTCTTGATCGCCAGCGAAAAGAAGACAGA
 AAGAGTGAGGACCAGAAAGCTCTGCTCTAGCTCCGGGCTAAATGAATATGAGGAAGAGAAATGAAGAGG
 AGGATGCAGAAAATGGAATGAAATGGATTTTGAATGATTGAAACGAATGATACAATGAGGCATTCTAT
 AATAGAGACATCTAGAAGTAGTCTGACGGAGCCCCACAGCTGAAGTCTATAATCAATACCCATCAAATGCA
 CTGGTGTGAGTCTTCTCTTTAATACTGGCAGTGCCCATGTGAAGCACTTGCCAGAAACCAGGACAA
 AAGGGACTAACGTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206353 representing NM_153369
 Red=Cloning site Green=Tags(s)

MLCASFLGLGLSVAIVGPTFQDLATNVNRNISSLSFIFVGRALGYLSGSVIGGFLVDVMNYFLLLGISMS
 ATTVGLYLVPFCKTAILLTVMMSIFGVSIGILDTGGNVLILAIWGDKGAPHMQUALHFSFALGAFLAPLLA
 KLALGPTASAENHTESDFHPALNQSSDADSEALFGVPNDKNLLWAYAVIGTYMFLVSVIFFCLFLKNSSK
 QEKARASAEFRRAKYHNALLCLLFLFFFYVGAEVTYGSYVFSFATTHAGMKESEAAGLNSIFWGTFAA
 CRGLAIFFATCLQPGTMIVLSNIGSLTSSLFLVLFDKNPICLWIATSVYGASMATTFPSGVSWIEQYTTI
 HGKSAFFVIGASLGEMAIPAVIGILQKYPDLPVVLVYSLGASIAATGILFPVLYKLATSPLDRQRKEDR
 KSEDQKALLSSSGLNEYEEENEEDAEKWNEMDFEMIEIETNDTMRHSIIETSRSSLTEPTAEVYNQYPSNA
 LVFESSPFNTGSAHVKHLPETRTKGTNV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_153369

ORF Size: 1554 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_153369.4](#)

RefSeq Size: 3930 bp

RefSeq ORF: 1557 bp

Locus ID: 91749

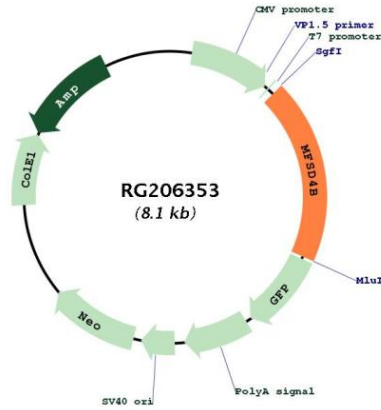
UniProt ID: [Q5TF39](#)

Cytogenetics: 6q21

Protein Families: Transmembrane

Gene Summary: May function as a sodium-dependent glucose transporter. Potential channels for urea in the inner medulla of kidney.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206353