

Product datasheet for **MG213003**

Mfsd14a (NM_008246) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mfsd14a (NM_008246) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mfsd14a
Synonyms:	Hiat1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG213003 representing NM_008246
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCAGGGGAAGAAAAAGAAACGGGCCGCAACCGCAGTATCATGCTGGCCAAAAAGATCATCATT
 AGGACGGAGGCACGCCTCAAGGAATAGGCTCCCTAGTGTGTATCATGCGTTATTGTTCATCTTTTGGGA
 GTTTTTGCTTGGGACTACTGACAGCACCCACATTGGTGGTATTGCATGAAACCTTCCCTAAACATAACA
 TTTCTGATGAATGGCCTAATCAAGGAGTAAAGGGTTTGTGTATTCTCAGTGCCCCACTTATTGGTG
 CTCTTTCTGATGTTTGGGGCCGAAAGTCTTCTGCTGCTAACAGTGTTCACGTGTGCCCTATTCC
 TCTGATGAAGATCAGCCCGTGGTGTACTTTGCTGTTATCTGTCTTCTGGGGTTTTGCAGTAACCTC
 TCTGTGGTATTGCATATGTAGCAGATAAACAAGAGCATGAAAGGAGTATGGCTTACGGACTGGTTT
 CTGCTACGTTCTGCTGCCAGCTTAGTTACCAGCCCTGCAATTGGAGCTTACCTGGACGAGTATGGGGA
 CAGCTTAGTGGTGGTCTTGGCTACAGCAATAGCTGCTAGACATCTGTTTTATCCTTGTGCTGTGCCA
 GAGTCATTGCCTGAGAAGATGCGGCCAGCATCGTGGGGAGCTCCCATTTTCATGGGAGCAGGCTGACCCCT
 TTGCATCTTTAAAAAAGTGGGCCAAGACTCCATAGTGTGCTGATCTGTATCACGGTGTCTCTCTCCTA
 CCTACCTGAAGCCGGCCAGTACTCCAGCTTCTTCTTATACCTCAGACAGATAATGAAATTTCCCGAGAA
 AGTGTGGCAGCCTTCATAGCAGTCTTGGCATTCTGTCCATTATTGCACAGACCATAGTCTTGAGTTTAC
 TCATGAGGTCAATTGGAATAAAGAACCCATCTTACTGGGTCTGGGATTTCAAATATTGCAGCTGGCATG
 GTACGGCTTTGGTTCCGAACCTTGGATGATGTGGGCTGCTGGGGCAGTGGCAGCCATGTCTAGCATCACC
 TTTCCAGCTGTTAGCCCTTGTTCACGGACTGCTGACGCGGATCAACAGGGTGTGTTCAAGGGATGA
 TAACAGGGATCAGAGGATTGTGCAATGGTCTGGGACCAGCCCTTATGGGTTTCAATTTTACATATCCA
 TGTGGAACCTTAAAGAACCTGCAATCACAGGGACAGACTGGGGACAACACAAGCCCTCAGCATCACTTT
 GAACAGAATTCATCATCCCTGGTCCCCCTTCTCTTTGGAGCCTGTTCCGGTACTGCTGGCTCTGCTCG
 TTGCCCTTGTATTCCGGAACACACTAATTTAAGTTAAGGTCCAGCAGTTGGAGGAAGCACTGTGGCAG
 TCACAGCCATCTCACAGTACACAAGCGCCAGGAGAGGCCAAAGAACCCTTACTCCAGGACACGAATGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG213003 representing NM_008246
 Red=Cloning site Green=Tags(s)

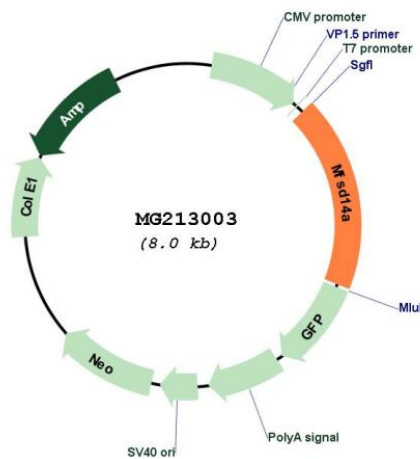
MTQGKKKKRAANRSIMLAKKIIKDGTPQGIGSPSVYHAVIVIFLEFFAWGLLTAPTLVVLHETFPKHT
 FLMNGLIQGVKGLLSFLSAPLIGALSDVWGRKSFLLLVFFTCAPILMKISPWWYFAVISVSGVFAVTF
 SVVFAYVADITQEHERSMAYGLVSATFAASLVTSIPAIGAYLGRVYGDLSVVVLATAIALLDICFILVAVP
 ESLPEKMRPASWGAPISWEQADPFASLKKVQDSIVLLICITVFLSYLPEAGQYSSFFLYLRQIMKFSPE
 SVAAFIAVLGILSIIAQTIVLSLLMRSIGNKNTILLGLGFQILQLAWYFGSEPMMWAAGAVAAMSSIT
 FPAVSALVSRTADADQQGVVQGMITGIRGLCNGLGPALYGFIFYIFHVELKELPITGDLGNTSPQHFF
 EQNSIIPGPPFLFGACSVLLALLVALFIPEHTNLSLRSSWRKHCGRSHSPHSTQAPGEAKEPELLQDTNV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_008246

ORF Size: 1470 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_008246.2](#), [NP_032272.2](#)

RefSeq Size: 2795 bp

RefSeq ORF: 1473 bp

Locus ID: 15247

UniProt ID: [P70187](#)

Cytogenetics: 3 G1