

Product datasheet for MR201784

Mfsd7b (BC024751) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mfsd7b (BC024751) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mfsd7b
Synonyms: 9630055N22Rik; FLVCR; Flvcr1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR201784 representing BC024751
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACAAGACTGGTTTGTCTTTCTGAGGAGAGAGTGGTAGCTAGCTGCATTATTCTCTGCAGAGGGACCC
 ACTCACAGCTCTGTCTTTGTTTTAGGCAGACAACCTCTGATAGTGTACGTTCTGTCTTTCATTGGAATGCT
 CATATTCACATTCACACTGAACCTCGGGTACATCATCGTGGTGTTTTTACTGGTGGGATCTTGGCTTC
 TTCATGACTGGTTACCTCCCGCTGGGCTTTGAGTTTGTGTGGAGATCACCTACCCTGAGCTGAGGGCA
 TGTCTCAGGGCTCCTCAACACTGCTGCACAGATACTTGGAAATTTCTTACATTGGCTCAAGGAAAGAT
 CACAACAGACTATAATAGTCCAGAGGCAGGAAACATTTCTTTGTGCCTGGATGTTTGTAGGCATAATT
 TTAACAGCGTTGATCAAGTCTGATCTGAGAAGGCACAATAAACACCGGGCTTACAAACATTGACGTTA
 AAGCTGTACCAGTTGATAGTCGGGTAGATCCAAAACCAAAGTGTGGTGTCTATACAGTCGGAATCTTC
 ACTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201784 representing BC024751
 Red=Cloning site Green=Tags(s)

MTRLVCLSEERVVASCIIILCRGTHSQLCLCFRQTTLIVYVLSFIGMLIFTFTLNLGYIIVVFFTGILGF
 FMTGYLPLGF EFAVEITYPESEGMSSGLLNTAAQILGIFFTLAQKITTDDYNSPEAGNIFLCAWMFVGII
 LTALIKSDLRRHNINTGLTNIDVKAVPVDSRVDPKPKVMYSIQSESSL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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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: [BC024751.1](#)

RefSeq Size: 3063 bp

RefSeq ORF: 566 bp

Locus ID: 226844

Cytogenetics: 1 H6

MW: 112.3 kDa

Gene Summary: Isoform 1: Heme transporter that exports cytoplasmic heme. It can also export coproporphyrin and protoporphyrin IX, which are both intermediate products in the heme biosynthetic pathway. Does not export bilirubin. Heme export depends on the presence of HPX and is required to maintain intracellular free heme balance, protecting cells from heme toxicity. Heme export provides protection from heme or ferrous iron toxicities in liver, brain, sensory neurons and during erythropoiesis, a process in which heme synthesis intensifies. Causes susceptibility to FeLV-C in vitro.[UniProtKB/Swiss-Prot Function]