

Product datasheet for **MR221296**

Flvcr1 (NM_001081259) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Flvcr1 (NM_001081259) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Flvcr1
Synonyms:	9630055N22Rik; FLVCR; Flvcr1; Mfsd7b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221296 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGGCCGATGACGAGGTGGGGCCGGCCGTGGCGCCCGGGCACCCGCTGGGGAAGGATACCTTC
 CAGTGCCCAAGGGCGCCCGGACGGGGAGGCGCGCTTGGTACCGCAAAACGGGCCTGAGGCGCTGAACGG
 AGGCCCGGGCTCGGCCGCTGATCGCGGGAGCCAGGGCGGGCCGAAGCCCTGATAGCGGCGGAGGAG
 GAGACCCAGGCCCGGCTGTTGCCCGGGGACGGGGAGGACGTCCCATGCCCGCGTGTCCCCCGCGCA
 CAGCGCTGTGCGGAGGCGCTTCGTGGTGTGCTCATCTTCAGCCTTTACTCGTGGTGAACGCCTTCCA
 GTGGATCCAGTACAGCAGCATCAGCAACGTGTTGAGGACTTCTACGAGGTGTGCGCCGCTGCACATCAAC
 TGGCTGTCCATGGTGTACATGGTGGCTACGTGCCCTCATCTCCCGGCCACCTGGCTGTGGACACGC
 GAGGCCTCGGGCTCACGGCGCTGCTGGGCTCCGGCCTCAACTGCCTGGGAGCCTGGGTCAAGTGGCGAG
 CGTGCAGCGGCACCTCTCTGGGTACCATGCTGGGGCAGATCCTGTGCTCCGTGGCCAGGTCTTCATC
 CTGGGCTTGCCCTCCCCGTCGCTCGGTATGGTTGGACCAAGGAGGTGTGACGCGCTTGTGCCACAG
 CAGTGTGGGCAATCAGCTTGGAACTGCAGTTGGTTTTTTGTTGCCACCTGTTTTAGTGCCTGCCTTGGG
 CACACAGAATAGCACAGGCCCTCCTGGCTCACACACAGAATAACACAGACCTCCTGGCTCATAACATCAAC
 ACCATGTTTTACGGAACAGCATTATCTCCACATTTTTATTTTTTTAAACAATAATTGCATTCAAGGAGA
 AACCTCCGTTGCCTCAAAGTCAAGCTCAGGCTCAGGCAGTTCTTCGAGACAGCCCCCTGAAGAGTACTCTACA
 GAGTCTATCTGGAACCTGTGCAGAAACATCCCCTTTGTTCTCCTGCTGGTCAAGTATGGTATCATGACT
 GGAGCATTTTTATCAATCTCAACATTATGAATCAAATAATATTGACATATTATGTTGGGAGAAGAGGTGA
 ATGCTGGGAGGATCGGGCTGACACTGGTGGTAGCTGGAATGGTGGGCTCTATTCTGTGGCTTATGGCT
 GGACTATACCAAAACCTACAAGCAGACAACCTGATAGTGTACGTTCTGTCTTTTCATTGGAATGCTCATA
 TTCACATTCACACTGAACCTCGGGTACATCATCGTGGTGTTTTTACTGGTGGGATTCTTGGCTTCTTCA
 TGACTGGTTACCTCCCGCTGGGCTTTGAGTTTGTGTGGAGATCACCTACCCTGAGTCTGAGGGCATGTC
 CTCAGGGCTCCTCAACACTGCTGCACAGATACTTGAATTTTTCTTACATTGGCTCAAGGAAAGATCACA
 ACAGACTATAATAGTCCAGAGGCAGAAACATTTCTTTGTGCCTGGATGTTTGTAGGCATAATTTTAA
 CAGCGTTGATCAAGTCTGATCTGAGAAGGCACAATAAAACCCGGGCTTACAAACATTGACGTTAAAGC
 TGTACCAGTTGATAGTCGGTAGATCCAAAACCAAGTATGGTGTCTATACAGTCGGAATCTTCACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221296 protein sequence
 Red=Cloning site Green=Tags(s)

MARPDDEVGPAVAPGHPLGKGYLPVPKAPDGEARLVPQNGPEALNNGPGLGPLIAGAQQGPQALIAAEE
 ETQARLLPAGDGEDVPCPACPPRTALSPRRFVLLIFSLYSLVNAFQWIQYSSISNVFEDFYEVSPHIN
 WLSMVYVAYVPLIFPATWLLDTRGLRLTALLGSLNCLGAWVKCGSVQRHLFWVMTLGGILCSVAQVFI
 LGLPSPVASVWFGPKEVSTACATAVLGNQLGTAVGFLLPPVLPALGTQNSTGLLAHTQNNDDLHNIN
 TMFYGTAFISTFLFLLTIIAFKEKPPLPPSQAQAVLRDSPPEEYSYKSSIWNLCRNIPFVLLLVSYGIMT
 GAFYSISTLLNQIILTYVVEEVNAGRIGLTLVVAGMVGSIKGLWLDYTKYKQTTLIVYVLSFIGMLI
 FTFTLNLGYIIVVFFTGILGFFMTGYLPLGFEFAVEITYPESEGMSSGLLNTAAQILGIFFTLAQKGIT
 TDYNSPEAGNIFLCAWMFVGIILTALIKSDLRRHNINTGLTNIDVKAVPVDSRVDPKPKVMVSIQSESSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_001081259

ORF Size: 1683 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_001081259.1](#), [NP_001074728.1](#)
RefSeq Size: 4087 bp

RefSeq ORF: 1683 bp

Locus ID: 226844

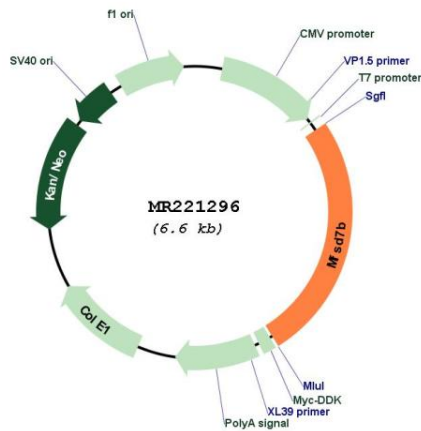
UniProt ID: [B2RXV4](#)

Cytogenetics: 1 H6

MW: 60.5 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]

Product images:



Circular map for MR221296