

Product datasheet for **MC219012**

Flvcr1 (NM_001081259) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC219012 representing NM_001081259
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGGCCGATGACGAGGTGGGGCCGGCCGTGGCGCCCGGGCACCCGCTGGGGAAGGGATACCTTC
 CAGTGCCCAAGGGCGCCCGGACGGGGAGGCGCGCTTGGTACCGCAAAACGGGCCTGAGGCGCTGAACGG
 AGGCCCGGGGCTCGGCCGCTGATCGCGGGAGCCAGGGCGGGCCGAAGCCCTGATAGCGGCGGAGGAG
 GAGACCCAGGCCCGGCTGTTGCCCGCGGGGACGGGGAGGACGTCCCATGCCCGCGTGTCCCCCGCGCA
 CAGCGCTGTCCGAGGGCGCTTCGTGGTGTGCTCATCTTCAGCCTTTACTCGTGGTGAACGCCTTCCA
 GTGGATCCAGTACAGCAGCATCAGCAACGTGTTTCGAGGACTTCTACGAGGTGTGCGCCGCTGCACATCAAC
 TGGCTGTCCATGGTGTACATGGTGGCTACGTGCCCTCATCTCCCGGCCACCTGGCTGTGGACACGC
 GAGGCCTCGGGCTCACGGCGCTGCTGGGCTCCGGCCTCAACTGCCTGGGAGCCTGGGTCAAGTGCGGCAG
 CGTGCAGCGGCACCTCTTCTGGGTACCATGCTGGGGCAGATCCTGTGCTCCGTGGCCAGGTCTTCATC
 CTGGGCTTGCCCTCCCCGTCGCTCGGTATGGTTGGACCAAGGAGGTGTGACGCGCTTGTGCCACAG
 CAGTGTGGGCAATCAGCTTGGAACTGCAGTTGGTTTTTTGTTGCCACCTGTTTTAGTGCCTGCCTTGGG
 CACACAGAATAGCACAGGCCCTCCTGGCTCACACACAGAATAACACAGACCTCCTGGCTCATAACATCAAC
 ACCATGTTTTACGGAACAGCATTATCTCCACATTTTTATTTTTTTAAACAATAATTGCATTCAAGGAGA
 AACCTCCGTTGCCTCAAAGTCAAGCTCAGGCTCAGGCAGTTCTTCGAGACAGCCCCCTGAAGAGTACTCTACA
 GAGTCTATCTGGAACCTGTGCAGAAACATCCCCTTTGTTCTCCTGCTGGTCAGTTATGGTATCATGACT
 GGAGCATTTTATCAATCTCAACATTATTGAATCAAATAATATTGACATATTATGTGGGAGAAGAGGTGA
 ATGCTGGGAGGATCGGGCTGACACTGGTGGTAGCTGGAATGGTGGGCTCTATTCTGTGGCTTATGGCT
 GGACTATACCAAAACCTACAAGCAGACAACCTGATAGTGTACGTTCTGTCTTTTATTGGAATGCTCATA
 TTCACATTCACACTGAACCTCGGGTACATCATCGTGGTGTTTTTACTGGTGGGATTCTTGGCTTCTTCA
 TGACTGGTTACCTCCCGCTGGGCTTTGAGTTTGTGTGGAGATCACCTACCCTGAGTCTGAGGGCATGTC
 CTCAGGGCTCCTCAACACTGCTGCACAGATACTTGAATTTTTCTTACATTGGCTCAAGGAAAGATCACA
 ACAGACTATAATAGTCCAGAGGCAGGAAACATTTCTTTGTGCCTGGATGTTTGTAGGCATAATTTTAA
 CAGCGTTGATCAAGTCTGATCTGAGAAGGCACAATATAAACACCGGGCTTACAAACATTGACGTTAAAGC
 TGTACCAGTTGATAGTCGGTAGATCCAAAACCAAGTATGGTGTCTATACAGTCGGAATCTTCACTC
 TGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001081259
- Insert Size:** 1683 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).