

Product datasheet for **SC115195**

FLVCR (FLVCR1) (NM_014053) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLVCR (FLVCR1) (NM_014053) Human Untagged Clone
Tag:	Tag Free
Symbol:	FLVCR
Synonyms:	AXPC1; FLVCR; MFSD7B; PCA; PCARP; SLC49A1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_014053, the custom clone sequence may differ by one or more nucleotides

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ATGGCGCGGCCAGACGATGAGGAGGGGGCGGCGGTGGCGCCCGGACACCCGCTCGCGAAAGGATACCTCC
CGTTGCCGAGGGGCGCGCCCGTTGGGAAGGAGAGCGTGGAGCTGCAGAACGGGCCAAAGCGGGCACCTT
CCCGGTGAATGGGGCCCCCGGGACAGCCTCGCTGCCCGCTCGGGAGTTCTGGGCGGGCCTCAGACTCCA
CTGGCCCCAGAAGAGGAGACCCAGGCCCGGCTGCTGCCTGCGGGCGCGGGAGCTGAGACCCGGGGCCG
AGAGCAGCCCGCTGCCCTTACGCGCTCTCCCGCGGGCCTTCGTGGTCTCCTGATCTTCAGCCTGTA
CTCGCTGGTCAACGCCTTTCAGTGGATCCAGTACAGCATCATTAGCAACGTCTTCGAGGGCTTCTACGGT
GTCACCTTGTGCACATCGACTGGCTGTCCATGGTGTACATGCTGGCCTACGTGCCCTCATCTCCCGG
CCACCTGGCTGCTGGACACCAGAGGCTGCGGCTCACCGCCCTGCTGGGCTCCGGCCTCACTGCCTGGG
TGCTGGATCAAGTGGGCAGTGTGCAGCAGCATCTCTTCTGGGTACCATTGTTGGGCCAGTGTGTGC
TCGGTGGCCAGGTGTTTCATCCTGGGCTTGCCCTCCCGCATCGCCTCAGTGTGGTTTGGGCCAAAGAGG
TGTCACAGCTTGTGCCACCGCCGTGCTGGGAATCAGCTTGGAACTGCAGTTGGCTTTTTGCTACCACC
AGTTTTAGTACCCAACACACAGAATGACACAAATCTCCTGGCTTGAATATCAGCACCATGTTTTATGGA
ACATCAGCTGTTGCCACACTTTTATTTATTTAACAGCAATTGCCTTCAAAGAAAAACCTCGGTATCCAC
CAAGTCAGGCTCAAGCAGCTCTTCAAGACAGTCCCGCTGAAGAGTACTCTATAAGAAATCAATAAGAAA
CCTGTTAAAAACATTCTTTTGTCTTCTGTTGATCACTTATGGTATCATGACTGGTGCCTTTTATTCA
GTCTCAACGTTATTAATCAAATGATATTGACATATTAGAGGGAGAAGAAGTCAATGCTGGAAGGATTG
GGCTAACGCTAGTAGTAGCTGGAATGGTGGGCTCTATTCTTTGTGGCTTATGGCTGGATTATACTAAAC
ATACAAACAGACTACTCTGATAGTTTATATTTTGTCTTTTATTGGAATGGTTATCTTTACTTTACATTG
GACCTTAGATATATTATCATCGTGTGTTTACTGGAGGGGTGCTTGGCTTCTTCATGAGTTACCTCC
CTTTGGGTTTTGAATTTGCTGTTGAAATCACTTACCCTGAATCTGAAGTACTTCACTGCTGCTTTAA
TGCTTCTGCACAGATATTTGGAATTTTGTTCACATTGGCTCAAGGAAAGCTCACATCAGACTATGGTCT
AAGGCAGGGAACATTTTTCTGTGTCTGGATGTTTATAGGCATCATATTAACAGCATTAAATCAAGTCTG
ATCTGCGAAGACACAACATAAATATAGGAATTACAAATGTTGATGTTAAAGCTATACCAGCTGACAGTCC
CACAGACCAAGAACAAAAACGGTTATGTTGTCCAAGCAGTCAGAATCAGCAATTTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014053 unedited

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TGTAATACGACTCACTATAGGGCGCCGCGAATTCGGCACGAGGGAGCCTGGGATATGGC
GCGGCCAGACGATGAGGAGGGGGCGGCGGTGGCGCCCGGACACCCGCTCGCGAAAGGATA
CCTCCCGTTGCCGAGGGGCGCGCCCGTTGGGAAGGAGAGCGTGGAGCTGCAGAACGGGCC
CAAAGCGGGCACCTTCCCGGTGAATGGGGCCCCCGGGACAGCCTGGCTGCCCGCTCGGG
AGTTCTGGGCGGGCCTCAGACTCCACTGGCCCCAGAAGAGGAGACCCAGGCCCGGCTGCT
GCCTGCGGGCGGGGAGCTGAGACCCCGGGGGCCGAGAGCAGCCGCTGCCCTTACGGC
GCTCTCCCGCGCGCTTCGTGGTGTCTCTGATCTTCAGCCTGTACTCGCTGGTCAACGC
CTTTCAGTGGATCCAGTACAGCATCATTAGCAACGTCTTCGAGGGCTTCTACGGTGTAC
CTTGCTGCACATCGACTGGCTGTCCATGGTGTACATGCTGGCCTACGTGCCCTCATCTT
CCCGGCCACCTGGCTGCTGGACACCAGAGGCTGCGGCTCACCGCCCTGCTGGGCTCCGG
CCTCAACTGCCTGNGTGCCTGGATCAAGTGCGGCAGTGTGCAGCAGCATCTTCTGGGT
CACCATGTTGGGCCAGTGTGTGCTCGGTGGCCACGTGCTCATCCCTGGGCTTGCCT
CCCGCATCGCTCAATGTGGTTCTGGCCCCAAAGAGTGTACAGCTTGTGCCACCGCCGTG
CTGGGCAATCAACTGCACCTGCAGTGGCTTTTTGCTACCACCAGTTAATACCCACCCAC
AGGATGACCCAATTTCTGCCTTGAATATACCACATGTTTTATGAACATAACTGTTGCC
CACTTTTATTATTTAAN
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014053 unedited CTANATCGAGTTTTTTTTTTTTTTTTTTAGTAGAGATGGGGTTTTACCATGTTGGCCAGG CTGGTCTTGAACCTCTGACCTCAGGTGATCCACACGCTTCAGCCTCCCAAAGTGCTGGGA TTACAGGCGTGAGCCACCACGCCAGCCTAAATATTTCTTTATAGCAATGCAAGGATGGC CTAACACACTGCCTAAATCAAAATTGCTATTCACCTTCAAGGGTATTCATTACCTGACTAG CTTTTTTGGGTGCATATGAACATAATGTAATTTTATGGCTGATCAAATGTCATTACTAT GAAGATACTCCCTATGAGCTCACAGATCAGGACATCAACAATATTTAACTCTCACTGT AAACATGACACAGTGGTAGGCACTGTGGAAATATATTTGGTCCTATTTTCCCTACCTGAG CATGTAAGAGAGCAGACTATTCTAACAGTGTGATGACTCTGCAGTGAAGAAAAGAATCCA CTCTCCCGGCACACTGATAGAGCATGTACCTGGGCATAGTATTCTCAAAGGAGAATGGT CATAAAAATGATCCTGCAGAATTCAAATAGCATTCAAGAGGTCTCCACTAAATGGGGACA TGTAGGCTATCTGAAGTTATTATAGATTTCTTATTTTCAGGAATCTTCAAGGCAAAATAT ACGATGTGATACATGAAATCATGAAAAAGCCCGTAACATACATTGATGACATTATCTTAC TAAGAAAGTTCCCTCCAGGAAAAAACATAAAGAAAGTTTAAAAAGAAAAAAGGCAATG GGTACAAAACACTTTCATCTTAAGTTGGGGTTGAAAAAACCCCGGTAGACTTTATCCAT GAAAGAAAGGCCGCACACAAAAAACTTCG
Restriction Sites:	NotI-NotI
ACCN:	NM_014053
Insert Size:	3500 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:	<ol style="list-style-type: none"> 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:	<u>NM_014053.1</u> , <u>NP_054772.1</u>
RefSeq Size:	2008 bp
RefSeq ORF:	1668 bp
Locus ID:	28982
UniProt ID:	<u>Q9Y5Y0</u>
Cytogenetics:	1q32.3
Protein Families:	Druggable Genome, Transmembrane

Gene Summary:

This gene encodes a member of the major facilitator superfamily of transporter proteins. The encoded protein is a heme transporter that may play a critical role in erythropoiesis by protecting developing erythroid cells from heme toxicity. This gene may play a role in posterior column ataxia with retinitis pigmentosa and the hematological disorder Diamond-Blackfan syndrome. [provided by RefSeq, Jan 2011]