

Product datasheet for **RG208394**

FLVCR (FLVCR1) (NM_014053) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLVCR (FLVCR1) (NM_014053) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FLVCR
Synonyms:	AXPC1; FLVCR; MFSD7B; PCA; PCARP; SLC49A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208394 representing NM_014053
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGCCAGACGATGAGGAGGGGGCGCGGTGGCGCCCGGACACCCGCTCGCGAAAGGATACCTCC
 CGTTGCCGAGGGGCGCGCCCGTTGGGAAGGAGAGCGTGGAGCTGCAGAACGGGCCAAAGCGGGCACCTT
 CCCGGTGAATGGGCCCGGGACAGCCTCGCTGCCGCCTCGGGAGTTCTGGGCGGGCCTCAGACTCCA
 CTGGCCCCAGAAGAGGAGACCCAGGCCCGGCTGCTGCCTGCGGGCGGGAGCTGAGACCCCGGGGGCCG
 AGAGCAGCCCGCTGCCCTTACGGCGCTCTCCCGCGGCGCTTCTGGTGTCTCTGATCTTCAGCCTGTA
 CTCGCTGGTCAACGCCTTTCAGTGGATCCAGTACAGCATCATTAGCAACGCTTTCGAGGGCTTCTACGGT
 GTCACCTGTGTCACATCGACTGGCTGTCCATGGTGTACATGCTGGCCTACGTGCCCTCATCTTCCCGG
 CCACCTGGCTGTGGACACCAGAGGCCGCGGCTCACCGCCTGTGGGCTCCGGCTCAACTGCCTGGG
 TGCTGGATCAAGTGCAGCAGTGTGCAGCAGCATCTTCTGGGTACCATGTTGGCCAGTGTCTGTGC
 TCGGTGGCCAGGTGTTATCCTGGGCTTGCCCTCCCGCATCGCCTCAGTGTGGTTTGGGCCAAAGAGG
 TGTCACAGCTTGTGCCACCGCCGTGCTGGGCAATCAGCTTGAAGTGCAGTTGGCTTTTGTACCACC
 AGTTTTAGTACCAACACACAGAATGACACAAATCTCCTGGCTTGAATATCAGCACCATGTTTTATGGA
 ACATCAGCTGTTGCCACACTTTTATTTTAAACAGCAATTGCCTTCAAAGAAAACCTCGGTATCCAC
 CAAGTCAGGCTCAAGCAGCTCTTCAAGCAGTCCCCTGAAGAGTACTCTATAAGAAATCAATAAGAAA
 CCTGTTTAAAAACATTCTTTTGTCTTCTGTTGATCACTTATGGTATCATGACTGGTGCCTTTTATTCA
 GTCTCAACGTTATTAATCAAATGATATTGACATATTATGAGGGAGAAGAAGTCAATGCTGGAAGGATTG
 GGCTAACGCTAGTAGCTGGAATGGTGGGCTATTCTTTGTGGCTTATGGCTGGATTATACTAAAAC
 ATACAAACAGACTACTCTGATAGTTTATATTTTGTCTTTTATTGGAATGGTTATCTTTACTTTCACATTG
 GACCTTAGATACATTATCATCGTGTGTTGTTACTGGAGGGGTGCTTGGCTTCTTCATGACTGGTTACCTCC
 CTTTGGGTTTTGAATTTGCTGTTGAAATCACTTACCCTGAATCTGAAGTACTTCATCTGGTCTTCTTAA
 TGCTTCTGCACAGATATTTGGAATTTTGTTCACATTGGCTCAAGGAAAGCTCACATCAGACTATGGTCTT
 AAGGCAGGAACATTTTCTCTGTGTCTGGATGTTTATAGGCATCATATTAACAGCATTAAATCAAGTCTG
 ATCTGCGAAGACACAACATAAATATAGGAATTACAATGTTGATGTTAAAGCTATACCAGCTGACAGTCC
 CACAGACCAAGAACAAAAATGGTTATGTTGTCCAAGCAGTCAGAATCAGCAATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence:

>RG208394 representing NM_014053
 Red=Cloning site Green=Tags(s)

MARPDDEEGAAVAPGHPLAKGYLPLRGAPVKGESVELQNGPKAGTFPVNGPPRDSLAAASGVLGGPQTP
 LAPEEETQARLLPAGAGAETPGAESSPLPLTALSPRRFVLLIFSLYSLVNAFQWIQYSIISNVFEGFYG
 VTLHIDWLSMVYMLAYVPLIFPATWLLDTRGLRLTALLGSLNCLGAWIKCGSVQQHLFWVTMLGQCLC
 SVAQVFIILGLPSRIASVWFPGPEVSTACATAVLGNQLGTAVGFLPPVLPNTQNDTNLLACNISTMFYG
 TSAVATLLFILTAFKEKPRYPPSQAQAALQDSPPEEYSYKKSIRNLFKNIPFVLLITYGIMTGAFYS
 VSTLLNQMILTYEVEEVNAGRIGLTLVAGMVGSIICGLWLDYTKYKQTTLIVYILSFIGMVIFFTL
 DLRYIIIVFVTGGVLFVMTGYLPLGFVEITYPESEGTSSGLLNASAQIFGILFTLAQKGLTSDYGP
 KAGNIFLCVWFMFIGIILTALIKSDLRRHNINIGITNVDVKAIPADSPDQEPKMVMLSKQSESAI

TRTRPLE - GFP Tag - **V**

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_014053

ORF Size: 1665 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014053.1](#), [NP_054772.1](#)

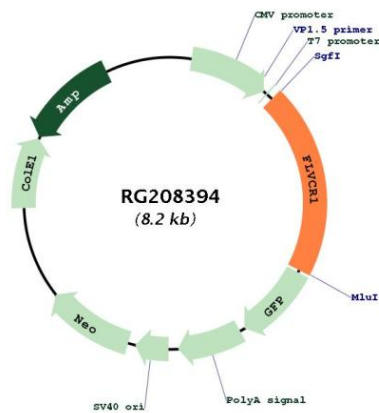
RefSeq Size: 2008 bp

RefSeq ORF: 1668 bp

Locus ID: 28982

UniProt ID: [Q9Y5Y0](#)
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]

Product images:



Circular map for RG208394