

Product datasheet for **RC231161**

FLVCR2 (NM_001195283) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	FLVCR2
Synonyms:	C14orf58; CCT; EPV; FLVCRL14q; MFSD7C; PVHH; SLC49A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC231161 representing NM_001195283
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGCAGATAACAGCAGCACCCTCTGTGTTGTAGAAGCGTGAGACAGGAGCTTGAATTGCGATTG
GGTTCTTGGTCCCTCTGTTTGGTACCCAAACATTGAAGACCGGGACGAGCTTGCCCTACCACATCAGCAT
CATGTTCTATATAATAGGAGGTGTGGCCACTCTCCTCCTCATCCTTGTCATCATTGTGTTCAAGGAGAAA
CCTAAATATCCCCCAGCAGGGCCCAATCCCTGAGCTATGCCTTGACCTCTCCTGATGCCTCATACTTAG
GTTCCATCGCCCGGCTCTTCAAAAATCTCAACTTTGTGCTGCTTGTCATCACCTATGGTCTGAATGCTGG
TGCTTTTTATGCCTTGCCACTCTTCTGAATCGCATGGTGATCTGGCACTACCGGGGGAAGAAGTGAAT
GCTGGAAGAATTGGCTGACGATCGTCATTGCAGGAATGCTGGGGCTGTGATCTCAGGAATCTGGCTGG
ATAGGTCCAAACCTACAAAGAGACAACCTGGTAGTCTATATCATGACACTGGTGGCATGGTGGTGTA
CACGTTTACCTGAACCTGGGACACCTGTGGGTAGTGTTCATCACTGCTGGCACAATGGGCTTCTTTATG
ACTGGCTATCTCCCACTGGGATTTGAGTTTGCTGTGGAGCTCACGTACCCAGAATCAGAAGGCATCTCCT
CCGGCCTCCTCAACATATCTGCACAGGTATTTGGGATCATCTTTACCATCTCCAGGGCCAGATTATTGA
CAACTATGGAACCAAGCCTGGGAACATCTTCTGTGTGTTCCTTACTCTTGAGCAGCCCTCACTGCA
TTCATTAAGGCAGATCTCCGGAGACAGAAAGCAAAAGAACTCTTGAGAACAACTCCAAGAGGAGG
AGGAGGAGAGCAACACCAGCAAAGTGCCCACTGCTGTGTCAGAGGATCATCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC231161 representing NM_001195283

Red=Cloning site Green=Tags(s)

MSADNSSTICVCRSVRQELGIAIGFLVPPVLVPNIEDRDELAYHISIMFYIIGGVATLLLILVIVFKEK
PKYPPSRAQSLSYALTSPDASYLGSIALRFLKLNLFVLLVITYGLNAGAFYALSTLLNRMVIWHYPGEEVN
AGRIGLTIVIAAGMLGAVISGIWDRSKTYKETTLLVVYIMTLVGMVVYFTLNLGHLWVVFITAGTMGFFM
TGYLPLGFEFAVELTYPESEGISSGLLNISAQVFGIIFTISQGIIDNYGTPGNIFLCVFLTGAALTA
FIKADLRQKANKETLENKLQEEEEESNTSKVPTAVSEDHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8051_g02.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001195283

ORF Size:

963 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:

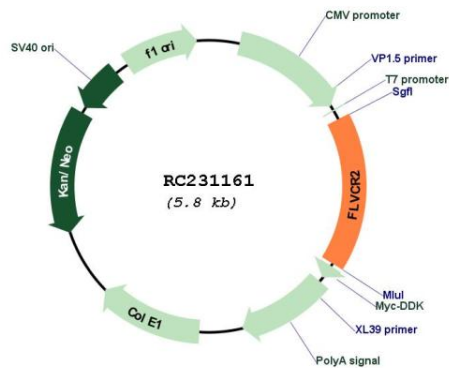
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

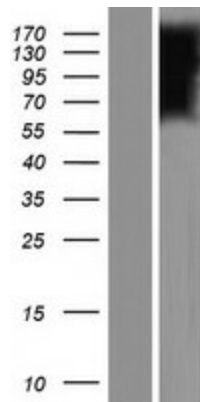
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_001195283.2</u>
RefSeq ORF:	966 bp
Locus ID:	55640
UniProt ID:	<u>Q9UPI3</u>
Cytogenetics:	14q24.3
Protein Families:	Transmembrane
MW:	35.7 kDa
Gene Summary:	This gene encodes a member of the major facilitator superfamily. The encoded transmembrane protein is a calcium transporter. Unlike the related protein feline leukemia virus subgroup C receptor 1, the protein encoded by this locus does not bind to feline leukemia virus subgroup C envelope protein. The encoded protein may play a role in development of brain vascular endothelial cells, as mutations at this locus have been associated with proliferative vasculopathy and hydranencephaly-hydrocephaly syndrome. Alternatively spliced transcript variants have been described.[provided by RefSeq, Aug 2010]

Product images:



Circular map for RC231161



Western blot validation of overexpression lysate (Cat# [LY434160]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231161 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).