

Product datasheet for **RG205665**

FLVCR2 (NM_017791) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FLVCR2 (NM_017791) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FLVCR2
Synonyms:	C14orf58; CCT; EPV; FLVCRL14q; MFSD7C; PVHH; SLC49A2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205665 representing NM_017791
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGTGAATGAAGGTCCCAACCAGGAAGAGAGCGATGACACCCCTGTGCCGGAGTCCGCACTCCAAGCGG
 ACCCCAGCGTCTCGGTCCATCCCAGCGTCTCGGTCCATCCCAGCGTCTCCATCAACCCAGCGTCTCTGT
 CCACCCAGCAGTTCCGCCCCACCCAGTGCCTTAGCCCAACCCAGTGGCTTGGCTCACCCAGTAGCTCG
 GGCCCTGAGGACCTCAGCGTGATCAAGGTGAGCAGGCGCCGTTGGGCCGTGGTCTGGTGTCTAGCTGCT
 ACTCCATGTGCAACTCCTTTAGTGGATCCAGTACGGCTCCATCAATAACATCTTCATGCACTTCTACGG
 TGTGAGTGCCTTTGCCATTGACTGGCTGTCCATGTGCTACATGCTGACTTACATCCCTCTGCTCTGCCA
 GTGGCTTGGCTGTGGAGAAGTTCGGCCTGCGCACCATTGCTCTCACTGGCTCGGCTCTCAACTGCCTGG
 GGGCTGGGTGAAGCTGGGCAGCCTGAAGCCGCATCTCTTCCGGTCACCGTGGTGGGCCAGCTCATCTG
 CTCTGTGGCCAGGTTTTATCCTGGGCATGCCCTCCGCATCGCTTCCGTCTGGTTCGGGGCTAATGAG
 GTTTCACAGCCTGCTCCGTGGCTGTCTTTGGCAATCAGCTTGAATTGCGATTGGGTCTTGGTCCCTC
 CTGTTTTGGTACCAACATTGAAGACCGGGACGAGCTTGCTACACATCAGCATCATGTCTATATAAT
 AGGAGGTGTGGCACTCTCCTCCTCATCTTGTCTCATTTGTGTCAAGGAGAAACCTAAATATCCCCC
 AGCAGGGCCCAATCCCTGAGCTATGCCTTGACCTCTCCTGATGCCTCATACTTAGGTTCCATCGCCGGC
 TCTTCAAAAATCTCAACTTTGTGCTGCTGTGTCATCACCTATGGTCTGAATGCTGGTGTCTTTATGCCTT
 GTCCACTCTTCTGAATCGCATGGTGATCTGGCACTACCGGGGGAAGAAGTGAATGCTGGAAGAATTGGC
 CTGACGATCGTCATTGCAGGAATGCTTGGGGCTGTGATCTCAGGAATCTGGCTGGATAGGTCCAAAACCT
 ACAAAGAGACAACCTGGTAGTCTATATCATGACACTGGTGGGCATGGTGGTGTACACGTTTACCTTGAA
 CCTGGGACACCTGTGGGTAGTGTTTCATCACTGCTGGCACAATGGGCTTCTTTATGACTGGCTATCTCCCA
 CTGGGATTTGAGTTTGTGTGGAGCTCACGTACCCAGAATCAGAAGGCATCTCCTCCGGCCTCCTCAACA
 TATCTGCACAGGTATTTGGGATCATCTTACCATCTCCAGGGCCAGATTATTGACAACATGGAACCAA
 GCCTGGGAACATCTTCTGTGTGTCTTACTCTTGGAGCAGCCCTCACTGCATTATTAAGGCAGAT
 CTCCGGAGACAGAAAGCAAACAAAGAACTCTTGAGAACAACTCCAAGAGGAGGAGGAGAGAGCAACA
 CCAGCAAAGTGCCCACTGCTGTGTCAGAGGATCATCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

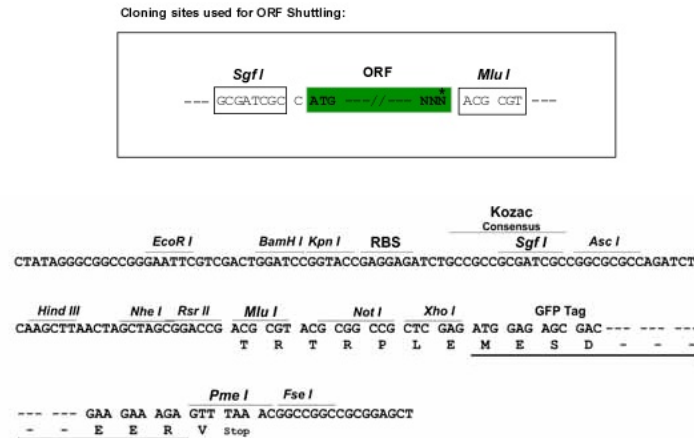
>RG205665 representing NM_017791
 Red=Cloning site Green=Tags(s)

MVNEGPNQEESDDTPVPESALQADPSVSVHPSVSVHPSVSVINPSVSVHPSSSAHPSALAQPSSGLAHPSSS
 GPEDLSVIKVSRRRWAVVLVFCYSMCSNFQWIIQYGSINNIFMHFYGVSAFAIDWLSMCYMLTYIPLLLP
 VAWLLEKFLRTIALTGSALNCLGAWVKLGSLKPHLPVTVVVGQLICSVAQVFIILGMPSTRIASVWFGANE
 VSTACSVAVFGNQLGIAIGFLVPPVLVPNIEDRDELAYHISIMFYIIGGVATLLILVIIIVFKEKPKYPP
 SRAQSLSYALTSPDASYLGSIARLFKNLNFVLLVITYGLNAGAFYALSTLLNRMVIWHYPGEEVNAGRIG
 LTIVIAIGMLGAVISGIWLDRSKYKETTLLVYIMTLVGMVVYFTLNLGHLWVVFITAGTMGFFMTGYLP
 LGFEFAVELTYPESEGISSGLLNISAQVFGIIFTISQGGIIDNYGTPGNIFLCVFLTLGAALTAFIKAD
 LRRQKANKETLENKLQEEEEESNTSKVPTAVSEDL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_017791

ORF Size: 1578 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_017791.3](#)

RefSeq Size: 3614 bp

RefSeq ORF: 1581 bp

Locus ID: 55640

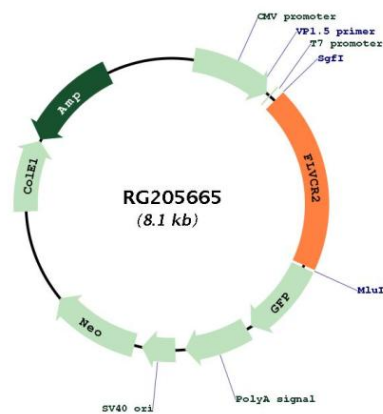
UniProt ID: [Q9UPI3](#)

Cytogenetics: 14q24.3

Protein Families: Transmembrane

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 RG205665