

Product datasheet for **RG217247**

CMKLR1 (NM_004072) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CMKLR1 (NM_004072) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CMKLR1
Synonyms: CHEMERINR; ChemR23; DEZ; RVER1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG217247 representing NM_004072
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGATGAAGATTACAACACTTCCATCAGTTACGGTGATGAATACCCTGATTATTTAGACTCCATTG
 TGGTTTTGGAGGACTTATCCCCCTTGGAAAGCCAGGGTGACCAGGATCTTCCTGGTGGTGGTCTACAGCAT
 CGTCTGCTTCTCGGGATTCTGGGCAATGGTCTGGTGATCATCATTGCCACCTTCAAGATGAAGAAGACA
 GTGAACATGGTCTGGTTCCTCAACCTGGCAGTGGCAGATTTCTGTTCAACGTCTTCTCCCAATCCATA
 TCACCTATGCCGCATGGACTACCACTGGGTTTTCGGGACAGCCATGTGCAAGATCAGCAACTTCTTCT
 CATCCACAACATGTTACCAGCGTCTTCTGCTGACCATCATCAGCTCTGACCGCTGCATCTCTGTGCTC
 CTCCTGTCTGGTCCCAGAACCACCGCAGCGTTTCGGCTGGCTTACATGGCCTGCATGGTCACTCTGGTCC
 TGGCTTTCTTCTGAGTCCCATCTCTCGTCTTCCGGGACACAGCCAACCTGCATGGGAAAATATCCTG
 CTTCAACAACCTCAGCCTGTCCACACTGGGTCTTCTCGTGGCCCACTCACTCCCAATGGACCCTGTG
 GGGTATAGCCGGCACATGGTGGTACTGTACCCGCTTCTCTGTGGCTTCTGGTCCCAGTCTCATCA
 TCACAGCTTGCTACCTACCATCGTGTGCAAACTGCAGCGCAACCGCCTGGCCAAGACCAAGAAGCCCTT
 CAAGATTATTGTACCATCATCATTACCTTCTTCTCTGCTGGTGCCCTACCACACACTCAACCTCCTA
 GAGCTCCACCACACTGCCATGCCTGGCTGTCTTACGCTGGGTTTGGCCCTGGCCACTGCCCTTGCCA
 TTGCCAACAGCTGCATGAACCCATTCTGTATGTTTTTCATGGGTGAGGACTTCAAGAAGTTCAAGGTGGC
 CCTCTTCTCTCGCTGGTCAATGCTCTAAGTGAAGATACAGGCCACTTCTTCTACCCAGCCATAGAAGC
 TTTACCAAGATGTCATCAATGAATGAGAGGACTTCTATGAATGAGAGGGAGACCGGCATGCTT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217247 representing NM_004072
Red=Cloning site Green=Tags(s)

MEDEYNTSISYGDEYPDYLDISIVVLEDLSPLEARVTRIFLVVVYSIVCFLGILGNLVIITATFKMKKT
 VNMVWFLNLAVADFLFNVFLPIHITYAAMDYHWVFGTAMCKISNLLIHNMFTSVFLLTISSDRCSVL
 LPVWSQNHRSVRLAYMACMVIWVLAFFLSSPSLVFRDTANLHGKISCFNNFSLSTPGSSSWPHTSQMDPV
 GYSRHMVTVTRFLCGFLVPVLIITACYLTIVCKLQRNRLAKTKKPKIIVTIIITFFLCWCPYHTLNL
 ELHHTAMPGSVFLGLPLATALAIANSCMNPILYVFMGQDFKFKVALFSRLVNLSEDTGHSSYPSHRS
 FTKMSSMNERTSMNERETGML

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004072

ORF Size: 1113 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.

RefSeq: [NM_004072.3](#)

RefSeq Size: 1900 bp

RefSeq ORF: 1116 bp

Locus ID: 1240

UniProt ID: [Q99788](#)

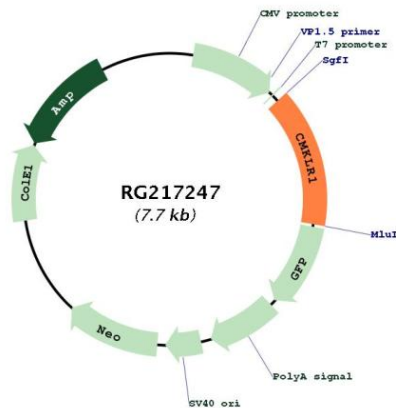
Cytogenetics: 12q23.3

Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: Receptor for the chemoattractant adipokine chemerin/RARRES2 and for the omega-3 fatty acid derived molecule resolvin E1. Interaction with RARRES2 induces activation of intracellular signaling molecules, such as SKY, MAPK1/3 (ERK1/2), MAPK14/P38MAPK and PI3K leading to multifunctional effects, like, reduction of immune responses, enhancing of adipogenesis and angiogenesis. Resolvin E1 down-regulates cytokine production in macrophages by reducing the activation of MAPK1/3 (ERK1/2) and NF-kappa-B. Positively regulates adipogenesis and adipocyte metabolism. Acts as a coreceptor for several SIV strains (SIVMAC316, SIVMAC239, SIVMACL7E-FR and SIVSM62A), as well as a primary HIV-1 strain (92UG024-2). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG217247