

## Product datasheet for **RG227006**

### CMKLR1 (NM\_001142343) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CMKLR1 (NM\_001142343) 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:** >RG227006 representing NM\_001142343  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGAATGGAGGATGAAGATTACAACACTTCCATCAGTTACGGTGATGAATACCCTGATTATTTAGACT  
CCATTGTGGTTTTGGAGGACTTATCCCCCTTGGAAAGCCAGGGTGACCAGGATCTTCTGGTGGTGGTCTA  
CAGCATCGTCTGCTTCTCGGGATTCTGGGCAATGGTCTGGTGATCATCATTGCCACCTCAAGATGAAG  
AAGACAGTGAACATGGTCTGGTTCCTCAACCTGGCAGTGGCAGATTTCTGTTCAACGTCTTCTCCCAA  
TCCATATCACCTATGCCCCATGGACTACCACTGGGTTTTCGGGACAGCCATGTGCAAGATCAGCAACTT  
CCTTCTCATCCACAACATGTTACCAGCGTCTTCTGCTGACCATCATCAGCTCTGACCGCTGCATCTCT  
GTGCTCCTCCCTGTCTGGTCCCAGAACCACCGCAGCGTTCGCCTGGCTTACATGGCTGCATGGTATCT  
GGGTCTGGCTTTCTTCTTGAGTTCCTCATCTCTCGTCTTCCGGGACACAGCCAACCTGCATGGGAAAAT  
ATCCTGCTTCAACAACACTCAGCCTGTCCACACCTGGGTCTTCTCGTGGCCCACTCACTCCCAATGGAC  
CCTGTGGGGTATAGCCGGCAGATGGTGGTACTGTACCCCGTTCCTCTGTGGCTTCTGGTCCCAGTCC  
TCATCATCACAGCTTGTACCTACCATCGTGTGCAAACCTGCAGCGCAACCGCTGGCCAAGACCAAGAA  
GCCCTTCAAGATTATTGTGACCATCATCATTACCTTCTTCTCTGCTGGTGGCCCTACCACACACTCAAC  
CTCCTAGAGCTCCACCACACTGCCATGCCTGGCTGTCTTCAAGCTGGGTTTGGCCCTGGCCACTGCC  
TTGCCATTGCCAACAGCTGCATGAACCCATTCTGTATGTTTTTCATGGGTCAGGACTTCAAGAAGTTCAA  
GGTGGCCCTCTTCTCTCGCTGGTCAATGCTCTAAGTGAAGATACAGGCACTCTTCTACCCAGCCAT  
AGAAGCTTTACCAAGATGTCATCAATGAATGAGAGGACTTCTATGAATGAGAGGGAGACCGGCATGCTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG227006 representing NM\_001142343  
 Red=Cloning site Green=Tags(s)

MRMEDEDYNTSISYGDEYPDYLDIVVLEDLSPLEARVTRIFLVVYVIVCFGLGILGNLVIIIATFKMK  
 KTVNMVWFLNLAVADFLFNVFLPIHITYAAMDYHWVFGTAMCKISNFLLIHNMFTSVFLITIISSDRSIS  
 VLLPVWSQNHRSVRLAYMACMVIWVLAFFLSSPSLVFRDANLHGKISCFNNFSLSTPGSSSWPHTSQMD  
 PVGYSRHMVVTVTRFLCGFLVPVLIITACYLTIIVCKLQRNRLAKTKKPKIIVTIIITFFLCWCPYHTLN  
 LLELHHTAMPGSVFSLGLPLATALAIANSNMNPILYVFMGQDFKKFKVALFSRLVNALSEDTHSSYPSPH  
 RSFTKMSSMNERETSMNERETGML

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1991\\_e11.zip](https://cdn.origene.com/chromatograms/ja1991_e11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001142343

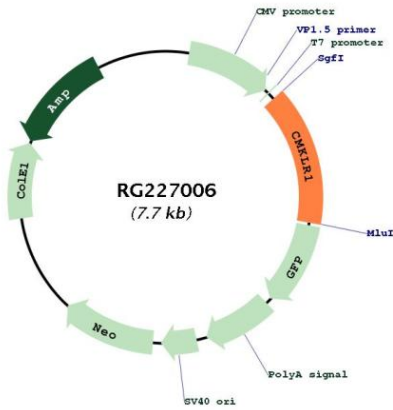
**ORF Size:** 1119 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001142343.2</a></u>
<b>RefSeq Size:</b>	5496 bp
<b>RefSeq ORF:</b>	1122 bp
<b>Locus ID:</b>	1240
<b>UniProt ID:</b>	<u><a href="#">Q99788</a></u>
<b>Cytogenetics:</b>	12q23.3
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Gene Summary:</b>	<p>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).</p> <p>[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RG227006