

## Product datasheet for **SC325015**

### CMKLR1 (NM\_001142345) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CMKLR1 (NM_001142345) Human Untagged Clone
Tag:	Tag Free
Symbol:	CMKLR1
Synonyms:	CHEMERINR; ChemR23; DEZ; RVER1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001142345, the custom clone sequence may differ by one or more nucleotides ATGAGAATGGAGGATGAAGATTACAACACTTCCATCAGTTACGGTGATGAATACCCTGAT TATTTAGACTCCATTGTGGTTTTGGAGGACTTATCCCCCTTGAAGCCAGGGTGACCAGG ATCTTCTGGTGGTGGTCTACAGCATCGTCTGCTTCTCGGGATTCTGGGCAATGGTCTG GTGATCATCATTGCCACCTTCAAGATGAAGAAGACAGTGAACATGGTCTGGTTCCCTCAAC CTGGCAGTGGCAGATTTCTGTTCACCGTCTTCTCCCAATCCATATCACCTATGCCGCC ATGGACTACCACTGGGTTTTCGGGACAGCCATGTGCAAGATCAGCAACTTCCTTCTCATC CACAACATGTTCCACCAGCGTCTTCTGTGACCATCATCAGCTCTGACCGCTGCATCTCT GTGCTCCTCCCTGTCTGGTCCCAGAACCACCGCAGCGTTTCGCTGGCTTACATGGCTGC ATGGTCATCTGGGTCTGGCTTTCTTCTTGAGTTCCCCATCTCTCGTCTTCCGGGACACA GCCAACCTGCATGGGAAAATATCCTGCTTCAACAACCTTCAAGCCTGTCCACACCTGGGTCT TCCTCGTGGCCCACTCACTCCCAATGGACCCTGTGGGGTATAGCCGGCACATGGTGGTG ACTGTCACCCGCTTCTCTGTGGCTTCTGGTCCCAGTCTCATCATCACAGCTTGTCTAC CTCACCATCGTGTGCAAACTGCAGCGCAACCGCCTGGCCAAGACCAAGAAGCCCTTCAAG ATTATTGTGACCATCATCATTACCTTCTTCTCTGTGCTGGTGGCCCTACCACACTCAAC CTCCTAGAGCTCCACCACACTGCCATGCCTGGCTCTGTCTTCAAGCCTGGGTTTGGCCCTG GCCACTGCCCTTGCCATTGCCAACAGCTGCATGAACCCATTCTGTATGTTTTCATGGGT CAGGACTTCAAGAAGTTCAAGGTGGCCCTTCTCTCGCCTGGTCAATGCTCTAAGTGAA GATACAGGCCACTTCTTACCCAGCCATAGAAGCTTTACCAAGATGTCATCAATGAAT GAGAGGACTTCTATGAATGAGAGGGAGACCGGCATGCTT
Restriction Sites:	Please inquire
ACCN:	NM_001142345
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>NM_001142345.1, NP_001135817.1</u>
<b>RefSeq Size:</b>	5110 bp
<b>RefSeq ORF:</b>	1122 bp
<b>Locus ID:</b>	1240
<b>UniProt ID:</b>	<u>Q99788</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). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, compared to variant 1. It encodes isoform a.</p>