

Product datasheet for **SC325013**

CMKLR1 (NM_001142343) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CMKLR1 (NM_001142343) 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_001142343, the custom clone sequence may differ by one or more nucleotides ATGAGAATGGAGGATGAAGATTACAACACTTCCATCAGTTACGGTGATGAATACCCTGAT TATTTAGACTCCATTGTGGTTTTGGAGGACTTATCCCCCTTGAAGCCAGGGTGACCAGG ATCTTCTGGTGGTGGTCTACAGCATCGTCTGCTTCTCGGGATTCTGGGCAATGGTCTG GTGATCATCATTGCCACCTTCAAGATGAAGAAGACAGTGAACATGGTCTGGTTCTCAAC CTGGCAGTGGCAGATTTCTGTTCACCGTCTTCTCCCAATCCATATCACCTATGCCGCC ATGGACTACCACTGGGTTTTCGGGACAGCCATGTGCAAGATCAGCAACTTCCTTCTCATC CACAACATGTTTACCAGCGTCTTCTGTGACCATCATCAGCTCTGACCGCTGCATCTCT GTGCTCCTCCCTGTCTGGTCCCAGAACCACCGCAGCGTTTCGCTGGCTTACATGGCTGC ATGGTCATCTGGGTCCTGGCTTTCTTCTTGAGTTCCCCATCTCTCGTCTTCCGGGACACA GCCAACCTGCATGGGAAAATATCCTGCTTCAACAACCTTCAGCCTGTCCACACCTGGGTCT TCCTCGTGGCCCACTCACTCCCAAATGGACCCTGTGGGGTATAGCCGGCACATGGTGGTG ACTGTCACCCGCTTCTCTGTGGCTTCTGGTCCCAGTCTCATCATCACAGCTTGCTAC CTCACCATCGTGTGCAAACTGCAGCGCAACCGCCTGGCCAAGACCAAGAAGCCCTCAAG ATTATTGTGACCATCATCATTACCTTCTTCTCTGTGCTGGTGCCCTACCACACTCAAC CTCCTAGAGCTCCACCACACTGCCATGCCTGGCTCTGTCTTCAGCCTGGGTTTGCCCTG GCCACTGCCCTTGCCATTGCCAACAGCTGCATGAACCCATTCTGTATGTTTTTCATGGGT CAGGACTTCAAGAAGTTCAAGGTGGCCCTTCTCTCGCCTGGTCAATGCTCTAAGTGAA GATACAGGCCACTTCTTACCCAGCCATAGAAGCTTTACCAAGATGTCATCAATGAAT GAGAGGACTTCTATGAATGAGAGGGAGACCGGCATGCTT
Restriction Sites:	Please inquire
ACCN:	NM_001142343



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OTI Disclaimer:	<p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>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.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none"> 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:	<u>NM_001142343.1</u> , <u>NP_001135815.1</u>
RefSeq Size:	5496 bp
RefSeq ORF:	1122 bp
Locus ID:	1240
UniProt ID:	<u>Q99788</u>
Cytogenetics:	12q23.3
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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a).