

Product datasheet for SC117575

CMKLR1 (NM_004072) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CMKLR1 (NM_004072) Human Untagged Clone
Tag:	Tag Free
Symbol:	CMKLR1
Synonyms:	CHEMERINR; ChemR23; DEZ; RVER1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117575 sequence for NM_004072 edited (data generated by NextGen Sequencing)

```

ATGGAGGATGAAGATTACAACACTTCCATCAGTTACGGTGATGAATACCCTGATTATTTA
GACTCCATTGTGGTTTTGGAGGACTTATCCCCCTTGGAAGCCAGGGTGACCAGGATCTTC
CTGGTGGTGGTCTACAGCATCGTCTGCTTCCCTCGGGATTCTGGGCAATGGTCTGGTGATC
ATCATTGCCACCTTCAAGATGAAGAAGACAGTGAACATGGTCTGGTTCCTCAACCTGGCA
GTGGCAGATTTCTGTTCAACGTCTTCTCCCAATCCATATCACCTATGCCGCCATGGAC
TACCACTGGGTTTTCGGGACAGCCATGTGCAAGATCAGCAACTTCTTCTCATCCACAAC
ATGTTCCACGCGTCTTCTGCTGACCATCATCAGCTCTGACCGCTGCATCTCTGTGCTC
CTCCCTGTCTGGTCCCAGAACCACCGCAGGTTCCGCTGGCTTACATGGCCTGCATGGTC
ATCTGGGTCTGGCTTTCTTCTTGAGTTCCCCATCTCTCGTCTTCCGGGACACAGCCAAC
CTGCATGGGAAAATATCCTGCTTCAACAACCTTCAGCCTGTCCACACCTGGGTCTTCTCG
TGGCCCACTCACTCCCAATGGACCCTGTGGGGTATAGCCGGCACATGGTGGTGACTGTC
ACCCGCTTCTCTGTGGTTCCTGGTCCCAGTCTCATCATCACAGCTTGCTACCTCACC
ATCGTGTGCAAACTGCAGCGCAACCGCCTGGCCAAGACCAAGAAGCCCTTCAAGATTATT
GTGACCATCATATTACCTTCTTCTCTGCTGGTGCCCTACCACACACTCAACCTCCTA
GAGCTCCACCACACTGCCATGCCTGGCTCTGTCTTCTCAGCCTGGGTTTGCCCTGGCCACT
GCCCTTGCCATTGCCAACAGCTGCATGAACCCATTCTGTATGTTTTCATGGGTCAAGAC
TTCAAGAAGTTCAAGGTGGCCCTCTTCTCTCGCCTGGTCAATGCTCTAAGTGAAGATACA
GGCCACTTCTCTACCCAGCCATAGAAGCTTTACCAAGATGTCAATGAATGAGAGG
ACTTCTATGAATGAGAGGGAGACCGGCATGCTTTGA

```

Clone variation with respect to NM_004072.2



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004072 unedited</p> <pre> CCCCGTTCCAGAATTGTATACGACTCATATAGGCGGCCGCGNAATCGGCACGAGGGNAAGC AGCTCCCGGCGNGCCAGCAGGGTAGCTCAGGACAGAGCAGGCTCCCTGGGAAGCCTCCGG GTGATAGGGGTGTTCCAGCTGCGGCGCTCTGGGGTTCAGAGGGGGATCTTGAATGAACA AATGAATGAACTGCTTTCTGGGCAAACAGCCACAGCCAGAGGAGCCTGTGATTGGCAGAA AGAAGCCAGGGTGTGCAAGTCTCCCAACAGCCTCGAGTGGCCTGCAGTACAGGGAACC CTCAGGAAGACCTTCCGGGCAGAGACCAGAGGGAAGGTGTTTCTAGCTGTGTACAGGGAC TGATTGGCTGAGGACTCACATTGGAGAGCTGCAGACAACATAACGGTGAATGAGAATGGA GGATGAAGATTACAACACTTCCATCAGTTACGGTGATGAATACCTGATTATTTAGACTC CATTGTGGTTTTGGAGGACTTATCCCCCTTGAAGCCAGGGTGACCAGGATCTTCTCGT GGTGGTCTACAGCATCGTCTGCTTCTCGGGATTCTGGGCAATGGTCTGGTGATCATCAT TGCCACCTTCAAGATGAAGAAGACAGTGAACATGGTCTGGTTCCTCAACCTGGCAGTGGC AGATTTCTGTTCACAGTCTTCTCCCAATCCATATCACCTATGCCGCCATGGACTACCA CTGGGTTTTCGGGACAGCCATGTGCAAGATCAGCAACTTCTTCTCATCCACAACATGTT CACCAGCGTCTTCTGCTGACCATCATCAGCTCTGACCCTGCATCTCTGTGCTCCTCCC TGCTGGTCCCAGAACCCGACGCGTTGCGCTGGCTTACATGGCCTGG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004072 unedited</p> <pre> GTGATTTTTTTCATTTNCTNAAGCCACCCTNCCAGNCCAGNANCTGNAGTGGNATTAGGGA AAGGCAGNAAAAAATCCCTGTGATGGGGTGGGGCTGCTGGTGAAGATGCCTGCCACAA CCCCACCCAGGTAAGAGGGGCAAGGTGAGATCAGGGGCTGGCACCACCCTGACGCCCC AAATAGCTCCAGCCTAAGCACCATCAGCCTGCGATGTTCTAGGGTGAGCTGCTCCATGC CTGCATCCTTTAAAGTTCTTTTCTCCTTTCTCATTTCTTGCCAAATCTCAAGTCTCG TTGCATCCCTCACTTGTCTTGCCCTTGCAAAGAGCCACAGGACCTCTCAGGACCAGTTC TCTGTCTTCTAGCTGATCCGAAAGCCAAATTCATGGCCTATGGAGTTCATGGGCTGATA TGTACCTTCTCTCCAGATCACCTATGCATTTCCACATACTTTAACACAGAGCAGTGA CTTGAAGTAGGGTTTTCTGGCCAGCTACTGATAATATATATAAAGGGCCAAGTGTGAT CTGCATCACACTGGGTTTGTCTGACCCCTCACTGCTCACACCAGGAATGGACCTTGGGA GAGTGTCAATTTCTGGGACACACAATAGGCAGCTTAATCCCACCGCCCTATGCCAATCC CAGTTCATGGCAATGCTTTTGGAAATTTCTCTTTTTTGTCTNTGAGTCAAGGCCTG GCCTCCCAAGAAGCATAAATGCTAGTCCAANGCTGATGGGACACAGCATGTTCTGTG ACTANAAGAAAAGGGTTCCNGCCCTTTATCCCAACCTAAACACTGTTTCCATTCCATGCAA AATGCATGAAAATTGGTGTATGCTTAAGAGGTCTTGCCCTAGACCTACAAANACATATCC TTGGGTGTCCCTGGGGTGGAGAGTCAATGAGGGTCCACAGGAGGATAAGCCTGCCGGCT CTCTCCATTAATAAAGCCCTTTTCTGGAGACTTTGGAAAATTTATGGTGGGTAGGAAAAG CGCTTTTTCTAAACATGCCACGAGAAAAG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004072
Insert Size:	2630 bp
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).
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_004072.1](#), [NP_004063.1](#)

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]

Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding sequence, compared to variant 1. It encodes isoform b, which has a shorter N-terminus than isoform a.