

## Product datasheet for **SC116534**

### **CRLR (CALCRL) (NM\_005795) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CRLR (CALCRL) (NM_005795) Human Untagged Clone
Tag:	Tag Free
Symbol:	CRLR
Synonyms:	CGRPR; CRLR; LMPHM8
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene ORF sequence for NM_005795 edited
GGACCATCAAGCTCTGCTAACTGAATCTCATCCTAATTGCAGGATCACATTGCAAAGCTT
TCACTCTTTCCACCTTGCTTGTGGTAAATCTCTTCTGCGGAATCTCAGAAAAGTAAAGT
TCCATCCTGAGAAATTTTCAAAAAGAAATTCCTTAAGAGCTGGACTGGGGTCTACGATG
ATACACCAACCACTTGTGCTACCATCTGTCAAACTTTGGATGGCCCTACTTTCAGGTCT
TGACCCCTGAATTTAAGAAATTCCTTAAAGACAATGTCAAATATGATCCAAGAGAAAATGT
GATTTGAGTCTGGAGACAATTGTGCATATCGTCTAATAATAAAAACCCATACTAGCCTAT
AGAAAACAATATTTGAAAGATTGCTACCACTAAAAGAAAACCTACTACAACCTTGACAAGA
CTGCTGCAAACCTCAATTTGTCAACCACAACCTTGACAAGTTGCTATAAAAACAAGATTGC
TACAACCTCTAGTTTATGTTATACAGCATATTTTCATTTTGGCTTAATGATGGAGAAAAAG
TGTACCTGTATTTTCTGGTCTCTTGCCTTTTTTTATGATTCTTGTACAGCAGAATTA
GAAGAGAGTCTGAGGACTCAATTCAGTTGGGAGTTACTAGAAAATAAATCATGACAGCT
CAATATGAATGTTACCAAAAGATTATGCAAGACCCCATCAACAAGCAGAAGGCGTTTAC
TGCAACAGAACCTGGGATGGATGGCTCTGCTGGAACGATGTTGCAGCAGGAACTGAATCA
ATGCAGCTCTGCCCTGATTACTTTTCAGGACTTTGATCCATCAGAAAAAGTTACAAAGATC
TGTGACCAAGATGGAAACTGGTTTAGACATCCAGCAAGCAACAGAACATGGACAAATTAT
ACCCAGTGAATGTTAACACCCACGAGAAAAGTGAAGACTGCACTAAATTTGTTTTACCTG
ACCATAATTGGACACGGATTGTCTATTGCATCACTGCTTATCTCGCTTGGCATATTTCTT
TATTTCAAGAGCCTAAGTTGCCAAAGGATTACCTTACACAAAAATCTGTTCTTCTCATT
GTTTGTAACTCTGTTGTAACAATCATTACCTCACTGCAGTGGCCAACAACAGGCGCTTA
GTAGCCACAAATCCTGTTAGTTGCAAAGTGTCCAGTTCATTCATCTTTACCTGATGGGC
TGTAATTACTTTTGGATGCTCTGTGAAGGCATTTACCTACACACACTCATTGTGGTGGCC
GTGTTTGCAGAGAAGCAACATTTAATGTGGTATTATTTTCTTGGCTGGGGATTTCCACTG
ATTCTGCTTGTATACATGCCATTGCTAGAAGCTTATATTACAATGACAATTTGCTGGATC
AGTTCTGATACCCATCTCCTCTACATTATCCATGGCCCAATTTGTGCTGCTTTACTGGTG
AATCTTTTTTCTGTTAAATATTGTACGCTTCTCATACCAAGTTAAAAGTTACACAC
CAAGCGGAATCCAATCTGTACATGAAAGCTGTGAGAGCTACTCTTATCTTGGTGCCATTG
CTTGGCATTGAATTTGTGCTGATTCCATGGCGACCTGAAGGAAAGATTGCAGAGGAGGTA
TATGACTACATCATGCACATCCTTATGCACTTCCAGGGTCTTTTGGTCTCTACCATTTTC
TGCTTCTTAAATGGAGAGGTTCAAGCAATCTGAGAAGAACTGGAATCAATACAAAATC
CAATTTGAAACAGCTTTTCCAACCTCAGAAGCTTTCGTAGTGGCTTTACACAGTGTCA
ACAATCAGTGATGGTCCAGGTTATAGTCATGACTGTCCTAGTGAACACTTAAATGGAAAA
AGCATCCATGATATTGAAAATGTTCTCTTAAAACAGAAAATTTATATAATTGAAAATAG
AAGGATGGTTGTCTCACTGTTTTGTGCTTCTCCTAACTCAAGGACTTGGACCCATGACTC
TGTAGCCAGAAGACTTCAATATTAATGACTTTTTGAATGTCATAAAGAAGAGCCTTAC
ATGAAATAGTAGTGTGTTGATAAGAGTGAACATCCAGCTCTATGTGGGAAAAAAGAAA
TCCTGGTTTGAATGTTGTGTCAGTAAATACTCCCACTATGCCTGATGTGACGCTACTAAC
CTGACATCACCAAGTGTGAATTTGGAGAAAAGCACAATCAACTTTTCTGAGCTGGTGTAA
GCCAGTTCAGCACACCATTTGCATGAATTCACAAACAAATGGCTGTAAAACCTAAACATAC
ATGTTGGCATGATTCTACCCTTATTGCCCAAGAGACCTAGCTAAGGCTATAAACATG
AAGGAAAAATTAGCTTTTGTGTTTAAAACCTTTTATCCCATCTTGATTGGGGCAGTTGAC
TTTTTTTTTGGCCAG
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005795 unedited  
 GGTACGATTTGTATACGACTCCTATAGGCGGCCGCGCAATCGGCACGAGGGAGAGTGTCA  
 CCTCTGCTTTAGGACCATCAAGCTCTGCTAACTGAATCTCATCCTAATTGCAGGATCAC  
 ATTGCAAAGCTTTCACTCTTTCCACCTTGCTTGTGGTAAATCTCTTCTGCGGAATCTC  
 AGAAAGTAAAGTTCATCCTGAGAATATTTCAAAAGAATTTCTTAAGAGCTGGACTGG  
 GGTCTACGATGATACACCAACCACTTGTGCTACCATCTGTCAAACTTTGGATGGCCCT  
 ACTTTCAAGTCTTGACCCCTGAATTTAAGAAATCTTAAAGACATATGTCAAATATGATC  
 CAAGAGAAAATGTGATTTGAGTCTGGAGACAATTGTGCATATCGTCTAATAATAAAAACC  
 CATACTAGCCTATAGAAAACAATATTTGAAAGATTGCTACCACTAAAAAGAAAACACTA  
 CAACTTGACAAGACTGCTGCAAACCTCAATTTGTCAACCACAACCTTGACAAGTTGCTAT  
 AAAACAAGATTGCTACAACCTTCTAGTTTATGTTATACAGCATATTTCAATTTGGCTTAAT  
 GATGGAGAAAAAGTGTACCCTGTATTTTCTGGTCTCTTGCCTTTTTTTATGATTCTTGT  
 TACAGCACAATTAGAAGAGAGTCTGAGGACTCAATTCAGTTGCGAGTTACTAGACATAA  
 AATCATGACAGCCTCATATGAATGCTACCAAAAAGATTATGCAAGACCCCATTCACAAGCA  
 GTAAGCCGTTACTGCAACACAACCTGNGATGGATGGCTCTGCTGGAACGATGTTGCAGCA  
 GGACCTGAATCCATGCAGCTCTGCCCTGATTACTTTCCANGACCTTTGATCCATCACAAAA  
 AGTTACCAAGATCTGTGACCAAAAATGGAACTGGT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005795 unedited  
 GCGCCGATTCTANAGTCGAGNNATTCCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGCAT  
 TCCAGACTCTATTTTATTTAAAAAATCAGCCCAGATACAGTATCAGATATTAACATACAC  
 ACATTGTTGCATTATATATTTGCTTTAAAAATTACATAGGTTGTATGTATTTGATTTGAG  
 ACTATAAAATAAAATAATGGAGTATTTACAAGCTATTTTACAAATTTCTTTTTACAAA  
 ATTCCAAGAAAATAAGAAATCCTTCATTGATTTTCTTTATATAAAATGATTGCTAATTTG  
 TTTATACAGTAGAAAATGGAAGGGACAAAATTTATATTTACAGCTAGGAATCCCTCCCAC  
 TGTTTTGGTAAAACAGGAAGAGGTTGACAAGGTGTTTTGTAGCATCAACTAAGATGTTTTTC  
 CTAATGATATAGAAGTAAGATTGCATATTATACATCCTGTTTCCAGTTTCCACAATGG  
 ATATGCCACAAGATATAACTGATGTGTCAGCAAATGAGTAGATCATAACAATTGACTCA  
 GTTGCTTTTCATAGAGAAAAGAAAGCCAGCAGGGATAATTCACCTCTGGTATTGTCCATT  
 TGAGAGGGTAGTTACAAAAGGACTACGGCACTCTGGGCAAAAAAAAAAGTCAACTGCC  
 CAATCAAGATGGGATAAAGAGTTTTTAAACTAAAAGCTAATTTTCCCTTCATGTTTATAG  
 ACCTTAGCTAGGTCTCTTGGGGCAATAAGGGTAGAATCATGCCACATGTATGTTTAGNT  
 TTACAGCCATTTGTTTGTGAATTATGCAATGGTGTGCTGAAACTGGCTTACACAACCTCAG  
 AAAAGGTGATGTGGCTTTTCTCCATATCCCACTCGGNGAAGTTAGTTTAGACCGCCCATC  
 AAGCATGGGGGAGTTTTACTGACAACATACACACAGGATCTTTTTTCCCACTGGAGTGA  
 TGTACCTTTTACACACCTATAATTATGGAAG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005795

**Insert Size:**

3100 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](#)

**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\\_005795.2](#), [NP\\_005786.1](#)

**RefSeq Size:** 2984 bp

**RefSeq ORF:** 1386 bp

**Locus ID:** 10203

**UniProt ID:** [Q16602](#)

**Cytogenetics:** 2q32.1

**Domains:** 7tm\_2, HormR

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction

**Gene Summary:**

Receptor for calcitonin-gene-related peptide (CGRP) together with RAMP1 and receptor for adrenomedullin together with RAMP3 (By similarity). Receptor for adrenomedullin together with RAMP2. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. An in-frame AUG is located 11 codons upstream of the annotated translation start site but is not being annotated as a start site since it is not conserved and is in a weak Kozak sequence context.