

Product datasheet for **RC212215**

CRLR (CALCRL) (NM_005795) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRLR (CALCRL) (NM_005795) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CRLR
Synonyms:	CGRPR; CRLR; LMPHM8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC212215 representing NM_005795
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTATACAGCATATTTTCATTTGGCTTAATGATGGAGAAAAAGTACCTGTATTTTCTGGTCTCT
 TGCTTTTTTTATGATTCCTGTTACAGCAGAATTAGAAGAGAGTCTGAGGACTCAATTCAGTTGGGAGT
 TACTAGAAATAAAATCATGACAGCTCAATATGAATGTTACAAAAGATTATGCAAGACCCATTCAACAA
 GCAGAAGGCGTTTACTGCAACAGAACCTGGGATGGATGGCTCTGCTGGAACGATGTTGCAGCAGGAACTG
 AATCAATGCAGCTCTGCCCTGATTACTTTCAGGACTTTGATCCATCAGAAAAAGTTACAAAGATCTGTGA
 CCAAGATGAAACTGGTTTAGACATCCAGCAAGCAACAGAACATGGACAAATTATACCCAGTGAATGTT
 AACACCCACGAGAAAGTGAAGACTGCACTAAATTTGTTTTACCTGACCATAATTGGACACGGATTGTCTA
 TTGCATCACTGCTTATCTCGCTTGGCATATTCTTTTATTTCAAGAGCCTAAGTTGCCAAAGGATTACCTT
 ACACAAAAATCTGTTCTTCTCATTGTTGTAAGTCTGTTGTAACAATCATTACCTCACTGCAGTGGCC
 AACACACAGGCCTTAGTAGCCACAAATCCTGTTAGTTGCAAAGTGTCCCAGTTCAATTCATCTTTACCTGA
 TGGGCTGTAATTAATTTGGATGCTCTGTGAAGGCATTTACCTACACACACTCATTGTGGTGGCCGTT
 TGCAGAGAAGCAACATTTAATGTGGTATTATTTCTTGGCTGGGATTTCCACTGATTCTCTGTGATA
 CATGCCATTGCTAGAAGCTTATATTACAATGACAATTGCTGGATCAGTTCTGATACCCATCTCCTCTACA
 TTATCCATGGCCCAATTTGTGCTGCTTACTGGTGAATCTTTTTTCTTGTAAATATTGACGCGTTCT
 CATCACCAGTTAAAAGTTACACACCAAGCGGAATCCAATCTGTACATGAAAGCTGTGAGAGCTACTCTT
 ATCTTGGTGCCATTGCTTGGCATTGAATTTGTGCTGATCCATGGCGACCTGAAGGAAAGATTGCAGAGG
 AGGTATGACTACATCATGCACATCCTTATGCACCTCCAGGGTCTTTTGGTCTCTACCATTTTCTGCTT
 CTTTAATGGAGAGGTTCAAGCAATTCTGAGAAGAACTGGAATCAATACAAAATCCAATTTGAAACAGC
 TTTTCCAACTCAGAAGCTCTTCGTAGTGCCTTACACAGTGTCAACAATCAGTGATGGTCCAGGTTATA
 GTCATGACTGTCTAGTGAACACTTAAATGGAAAAAGCATCCATGATATTGAAAATGTTCTCTTAAACC
 AGAAAATTTATATAAT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212215 representing NM_005795
 Red=Cloning site Green=Tags(s)

MLYSIFHFGLMMEKKCTLYFLVLLPFFMILVTAEELEESPEDSIQLGVTRNKIMTAQYECYQKIMQDPIQQ
 AEGVYCNRTWDGWLWNVDVAAGTESMQLCPDYFQDFDPSEKVTKICDQDGNWFRHPASNRTWTNYTQCNV
 NTHEKVKTALNLFYLTIIHGHSIASLLISLGIFFYFKSLSCQRITLHKNLFFSFCNSVVTIIHLTAVA
 NNQALVATNPVSVCKVSQFIHLVLMGCNYFWMLCEGIYLHLLIVVAVFAEKQHLMWYFLLGWGFPLIPACI
 HAIARSLYYNDNCWISSDTHLLYIIHGPICAALLVNLFFLLNIVRVLITKLKVTHQAESNLYMKAVRATL
 ILVPLLGIEFVLIIPWRPEGKIAEEVYDIIMHILMHFQGLLVSTIFCFFNGEVQAILRRNNWQYKIQFGNS
 FSNSEALRSASYTVSTISDGPYSHDCPSEHLNGKSIHDIENVLLKPENLYN

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_005795

ORF Size: 1416 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 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](#)

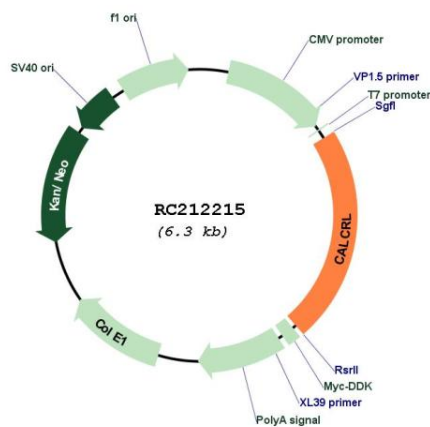
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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 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
MW:	54.32 kDa
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]

Product images:



Circular map for RC212215