

## Product datasheet for **RC237390**

### CRF1 (CRHR1) (NM\_001303020) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CRF1 (CRHR1) (NM_001303020) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CRHR1
Synonyms:	CRF-R; CRF-R-1; CRF-R1; CRF1; CRFR-1; CRFR1; CRH-R-1; CRH-R1; CRHR; CRHR1L
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237390 representing NM_001303020 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGTGTCCGCTACAATACCACAAAAAAGCAAGGTGCACTACCATGTGCGAGTCATCACTACC  
TGGCCACTGTATCTCCCTGGTGGCCCTCTGGTGGCCTTGTCCCTTTCTGCGGCTCAGGAGCATCCG  
GTCCCTGCGAAACATCATCCACTGGAACCTCATCTCCGCCTTCATCCTGCGCAACGCCACCTGGTTCGTG  
GTCCAGCTAACCATGAGCCCGAGGTCCACCAGAGCAACGTGGGCTGGTGCAGGTTGGTGACAGCCGCT  
ACAACACTTCCATGTGACCAACTTCTTCTGGATGTTCCGGCAGGGCTGTACCTGCACACAGCCATCGT  
GCTCACCTACTCCACTGACCGGCTGCGCAAATGGATGTTTCATCTGCATTGGCTGGGGTGTGCCCTCCCC  
ATCATTGTGGCCTGGGCCATTGGGAAGCTGACTACGACAATGAGAAGTGTGGTTTGGCAAAGGCCTG  
GGGTGTACACCGACTACATCTACCAGGGCCCCATGATCCTGGTCTGCTGATCAATTTCACTTCTTTT  
CAACATCGTCCGCATCCTCATGACCAAGCTCCGGGCATCCACCACGTCTGAGACCATTAGTACAGGAAG  
GCTGTGAAAGCCACTCTGGTGTCTGCTGCCCTCCTGGGCATCACCTACATGCTGTTCTTCGTCATCCCG  
GGGAGGATGAGGTCTCCGGGTCTTTCATCTACTTCACTCCTTCCGAAATCCTTCCAGGCTTCTT  
TGTGTCTGTGTTCTACTGTTTCCCAATAGTGAGGTCCGTTCTGCCATCCGGAAGAGGTGGCACCCGGTGG  
CAGGACAAGCACTCGATCCGTGCCCGAGTGCCCGTGCATGTCATCCCCACCTCCCCAACCCGTGTCA  
GCTTTCACAGCATCAAGCAGTCCACAGCAGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237390 representing NM\_001303020  
Red=Cloning site Green=Tags(s)

MVSATIPQKSKVHYHVAVIINYLGHICISLVALLVAFVLFRLRSIRCLRNIHWNLISAFILRNATWVF  
 VQLTMSPEVHQSNVWGCRLVTAAYNYFHVTNFFWMFGEGCYLHTAIVLTYSTDRLRKWMFICIGWGVFPF  
 IIVAWAIGKLYDNEKCFWFKRPGVYTDYIYQGPMILVLLINFIFLFNIVRILMTKLRASSTSETIQYRK  
 AVKATLVLLPLLGITMYLFFVNPGEDEVSRVVFYFNSFLESFQGFVSVFYCFLNSEVRSAIRKRWHRW  
 QDKHSIRARVARAMSIPTSPTRVSFHSIKQSTAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

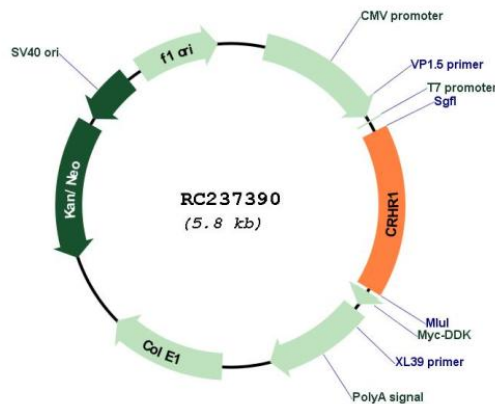
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001303020

**ORF Size:** 942 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001303020.1</a> , <a href="#">NP_001289949.1</a>
<b>RefSeq Size:</b>	2508 bp
<b>RefSeq ORF:</b>	945 bp
<b>Locus ID:</b>	1394
<b>Cytogenetics:</b>	17q21.31
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Long-term depression, Neuroactive ligand-receptor interaction
<b>MW:</b>	37.1 kDa
<b>Gene Summary:</b>	This gene encodes a G-protein coupled receptor that binds neuropeptides of the corticotropin releasing hormone family that are major regulators of the hypothalamic-pituitary-adrenal pathway. The encoded protein is essential for the activation of signal transduction pathways that regulate diverse physiological processes including stress, reproduction, immune response and obesity. Alternative splicing results in multiple transcript variants. Naturally-occurring readthrough transcription between this gene and upstream GeneID:147081 results in transcripts that encode isoforms that share similarity with the products of this gene. [provided by RefSeq, Aug 2016]