

Product datasheet for RC226962

CRF1 (CRHR1) (NM_001145148) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRF1 (CRHR1) (NM_001145148) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CRF1
Synonyms:	CRF-R; CRF-R-1; CRF-R1; CRF1; CRFR-1; CRFR1; CRH-R-1; CRH-R1; CRHR; CRHR1L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226962 representing NM_001145148 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGGAGGGCACCCGAGCTCCGTCTCGTCAAGGCCCTTCTCCTTCTGGGGCTGAACCCGTCCTGCCT
CCCTCCAGGACCAGCACTGCGAGAGCCTGTCCCTGGCCAGCAACATCTCAGGACTGCAGTCAACGCATC
CGTGGACCTCATTGGCACCTGCTGGCCCCGAGCCCTGCGGGGAGCTAGTGGTTCGGCCCTGCCCTGCC
TTTTTCTATGGTGTCCGCTACAATACCACAAACAATGGCTACCGGAGTGCCTGGCCAATGGCAGCTGGG
CCGCCCGGTGAATTACTCCGAGTGCCAGGAGATCCTCAATGAGGAGAAAAAAGCAAGGTGCACTACCA
TGTGCGAGTCATCATCACTACCTGGGCCACTGTATCTCCTGGTGGCCCTCCTGGTGGCCTTTGTCCCTC
TTTCTGCGGCTCAGGAGCATCCGGTGCCTGCGAAACATCATCCACTGGAACCTCATCTCCGCCTTATCC
TGCGCAACGCCACCTGGTTCTGGTCCAGCTAACCATGAGCCCCGAGGTCCACCAGAGCAACGTGGGCTG
GTGAGGTTGGTACAGCCGCTACAACACTTCCATGTGACCAACTTCTTCTGGATGTTTCGGCAGGGC
TGCTACCTGCACAGCCATCGTGCTCACCTACTCCACTGACCGGCTGCGCAATGGATGTTTCATCTGCA
TTGGCTGGGTGTGCCCTTCCCCATATTGTGGCTGGCCATTGGGAAGCTGTACTACGACAATGAGAA
GTGCTGGTTTGGCAAAAGCCTGGGGTGTACACCGACTACATCTACCAGGGCCCCATGATCCTGGTCCCTG
CTGATCAATTTTCATCTTCTTTTCAACATCGTCCGCATCCTCATGACCAAGCTCCGGCATCCACCACGT
CTGAGACCATTACGTACAGGAAGGCTGTGAAAGCCACTCTGGTGTCTGCCCCCTCCTGGGCATCACCTA
CATGCTGTTCTTCTGCAATCCCGGGGAGGATGAGGTCTCCCGGGTCTTCTCATCTACTTCAACTCCTTC
CTGGAATCCTTCCAGGTCGGTTCTGCCATCCGGAAGAGGTGGCACCGGTGGCAGGACAAGCACTCGATCC
GTGCCCGAGTGGCCCGTCCATGTCCATCCCCACCTCCCCAACCCGTGTGAGCTTTCACAGCATCAAGCA
GTCCACAGCAGTC

ACGGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC226962 representing NM_001145148
Red=Cloning site Green=Tags(s)

MGGHPQLRLVKALLLLGLNPVSASLQDQHCESSLASNISGLQCNASVDLIGTCWPRSPAGQLVVRPCPA
 FFYGVRYNTTNGYRECLANGSWAARVNYSECQEILNEEKSKVHYHVAVIINYLGHCSLVALLVAFVL
 FLRLRSIRCLRNIHWNLISAFILRNATWVQVLTMSPEVHQSNVWGCRLVTAAYNYFHVNTFFWFMFEG
 CYLHTAIVLTYSTDRLRKWMFICIGWGVFPFIIVAVAIKGLYYDNEKCFWFKRPGVYTDYIYQGPMLVL
 LINFIFLFNIVRILMTKLRASTTSETIQYRKAVKATLVLLPLLGITMYLFFVNPGEDEVSRVVFYFNSF
 LESFQVRSAIRKRWHRWQDKHSIRARVARAMSIPTSPTRVSFHSIKQSTAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8057_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001145148

ORF Size: 1203 bp

OTI Disclaimer: 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: [NM_001145148.2](#)

RefSeq ORF: 1206 bp

Locus ID: 1394

UniProt ID: [P34998](#)

Cytogenetics: 17q21.31

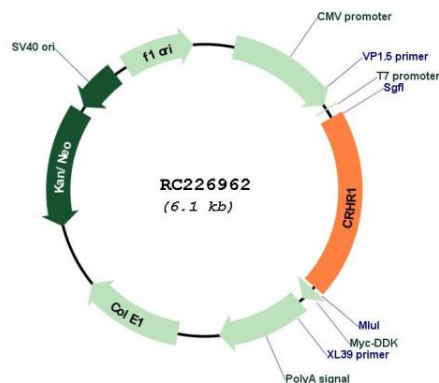
Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Long-term depression, Neuroactive ligand-receptor interaction

MW: 45.8 kDa

Gene Summary: 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]

Product images:



Circular map for RC226962