

Product datasheet for **RC234014**

Corticotropin Releasing Factor Receptor 2 (CRHR2) (NM_001202482) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Corticotropin Releasing Factor Receptor 2 (CRHR2) (NM_001202482) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Corticotropin Releasing Factor Receptor 2
Synonyms:	CRF-RB; CRF2; CRFR2; HM-CRF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234014 representing NM_001202482
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGCGGCACTGCTCCACAGCCTGCTGGAGGCCAACTGCAGCCTGGCGCTGGCTGAAGAGCTGCTCT
 TGGACGGCTGGGGCCACCCCTGGACCCGAGGGTCCCTACTCCTACTGCAACACGACCTTGGACCAGAT
 CGGAACGTGCTGGCCCCGACGCTGCCGAGCCCTCGTGGAGAGGCCGTGCCCCGAGTACTTCAACGGC
 GTCAAGTACAACACGACCCGGAATGCCTATCGAGAATGCTTGGAGAATGGGACGTGGGCCTCAAAGATCA
 ACTACTCACAGTGTGAGCCATTTGGATGACAAGAGGAAGTATGACCTGCACTACCGCATCGCCCTTGT
 CGTCAACTACCTGGCCACTGCGTATCTGTGGCAGCCCTGGTGGCCGCTTCTGCTTTTCTGGCCCTG
 CGGAGCATTGCTGTCTGCGAATGTGATTCACCTGGAACCTCATACCACCTTTATCCTGCGAAATGTCA
 TGTGGTTCCTGCTGCAGCTCGTTGACCATGAAGTGCACGAGCAATGAGGTCTGGTCCCGCTGCATCAC
 CACCATCTTCACTACTTCGTGGTGACCACTTCTTCTGGATGTTTGTGGAAGGCTGCTACCTGCACACG
 GCCATTGTCATGACCTACTCCACTGAGCGCCTGCGCAAGTGCCTTCTCCTTTCATCGGATGGTGCATCC
 CCTTCCCATCATCGTCGCTGGCCATCGGCAAGCTCTACTATGAGAATGAACAGTGTGGTTTGGCAA
 GGAGCCTGGCGACCTGGTGGACTACATCTACCAAGGCCCATCATTCTCGTGCTCCTGATCAATTTTCGTA
 TTTCTGTTCAACATCGTCAGGATCCTAATGACAAAGTTACGCGCGTCCACCACATCCGAGACAATCCAGT
 ACAGGAAGGCAGTGAAGGCCACCTGGTCTCTGCCCTCCTGGGCATCACCTACATGCTCTTCTTCGT
 CAATCCCGGGGAGGACGACCTGTACAGATCATGTTTCACTCTATTCAACTCCTTCTGACGTGTTCCAG
 GGTTTCTTCTGTCTGTCTTCTACTGCTTCTTCAATGGAGAGTGCCTCAGCCGTGAGGAAGAGGTGGC
 ACCGCTGGCAGGACCATCACTCCCTTCGAGTCCCATGGCCCGGCCATGTCCATCCCTACATACCCAC
 ACGGATCAGCTTCCACAGCATCAAGCAGACGCGCGCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234014 representing NM_001202482
 Red=Cloning site Green=Tags(s)

MDAALLHSLLEANCSLALAEELLLDGGWPPLDPEGPYSYCNTTLDQIGTCWPRSAAGALVERPCPEYFNG
 VKYNTTRNAYRELENGTWASKINYSQCEPILDDKRKYDLHYRIALVVNYLGHCVSVAALVAFFLLFLAL
 RSIRCLRNVIIHWNLIITFILRNVMWFLQLVDHEVHESNEVWCRCITTFNYFVVTNFFWMFVEGCYLHT
 AIVMTYSTERLRKCLFLFIGWCIPFPII VAWAIGKLYENEQCWFGKEPGLVDYIYQGPIILVLLINFV
 FLFNIVRILMTKLRASSTSETIQYRKAVKATLVLLPLLGITYMLFFVNPGEDDL SQIMFIYFNSFLQSFQ
 GFFVSVFYCFNGEVRSAYRKRWRHQDHSLRVP MARAMSIPTSPTRISFHSIKQTAAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001202482

ORF Size: 1230 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_001202482.1](#), [NP_001189411.1](#)

RefSeq Size: 2995 bp

RefSeq ORF: 1233 bp

Locus ID: 1395

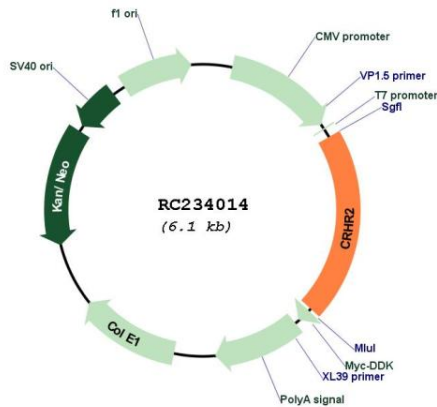
UniProt ID: [Q13324](#)

Cytogenetics: 7p14.3

Protein Families: Druggable Genome, Transmembrane
Protein Pathways: Neuroactive ligand-receptor interaction
MW: 48 kDa

Gene Summary: The protein encoded by this gene belongs to the G-protein coupled receptor 2 family, and the subfamily of corticotropin releasing hormone receptor. This receptor shows high affinity for corticotropin releasing hormone (CRH), and also binds CRH-related peptides such as urocortin. CRH is synthesized in the hypothalamus, and plays an important role in coordinating the endocrine, autonomic, and behavioral responses to stress and immune challenge. Studies in mice suggest that this receptor maybe involved in mediating cardiovascular homeostasis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.[provided by RefSeq, Jan 2011]

Product images:



Circular map for RC234014