

Product datasheet for **RC234092**

Corticotropin Releasing Factor Receptor 2 (CRHR2) (NM_001202475) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Corticotropin Releasing Factor Receptor 2 (CRHR2) (NM_001202475) 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:

>RC234092 representing NM_001202475
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGGGTCCCTCAGGGCCCCAGGCCTCTCTACGTCCACACCTCTCTCTGCCTGCTCTGCCTCC
 TCCCACCGCCGCTCCAATACGCAGCCGGGACAGCCAGATGCCCAAAGACCAGCCCTGTGGCACTTCT
 GGAGCAGTACTGCCACACCATCATGACCCTCACCAACCTCTCAGGTCCCTACTCCTACTGCAACACGACC
 TTGGACCAGATCGGAACGTGCTGGCCCCGAGCGCTGCCGGAGCCCTCGTGGAGAGGCCGTGCCCGAGT
 ACTTCAACGGCGTCAAGTACAACACGACCCGGAATGCCTATCGAGAATGCTTGGAGAATGGGACGTGGGC
 CTCAAAGATCACTACTCACAGTGTGAGCCATTTTGGATGACAAGCAGAGGAAGTATGACCTGCACTAC
 CGCATCGCCCTTGTCTCACTACCTGGGCCACTGCGTATCTGTGGCAGCCCTGGTGGCCGCTTCTCTGC
 TTTTCTGGCCCTGCGGAGCATTGCTGTCTGCGGAATGTGATTCACTGGAACCTCATCACCACCTTTAT
 CCTGCGAAATGTCATGTGTTCTGCTGCAGCTCGTTGACCATGAAGTGCACGAGAGCAATGAGGTCTGG
 TGCCGCTGCATCACCACCATCTTCAACTACTTCGTGGTACCAACTTCTTCTGGATGTTTGTGGAAGGCT
 GCTACCTGCACACGGCCATTGTCATGACCTACTCCACTGAGCGCCTGCGCAAGTGCCCTTCTCTTTCAT
 CGGATGGTGCATCCCTTCCCATCATCGTCGCTGGCCATCGCAAGCTCTACTATGAGAATGAACAG
 TGCTGGTTTGGCAAGGAGCCTGGCGACCTGGTGGACTACATCTACCAAGGCCCATCATTCTCGTCTCC
 TGATCAATTTTCGTATTTCTGTCAACATCGTCAGGATCCTAATGACAAAGTTACGCGCGTCCACCACATC
 CGAGACAATCCAGTACAGGAAGGCAGTGAAGGCCACCTGGTGTCTCTGCCCTCCTGGGCATCACCTAC
 ATGCTCTTCTCGTCAATCCCGGGGAGGACGACCTGTACAGATCATGTTTCATCTATTTCAACTCCTTCC
 TGCAGTCGTTCCAGGGTTCTTCTGTCTGTCTTCTACTGCTTCTCAATGGAGAGGTGCGCTCAGCCGT
 GAGGAAGAGGTGGCACCCTGGCAGGACCATCACTCCCTTCGAGTCCCATGGCCCGGCCATGTCCATC
 CCTACATCACCACACGGATCAGCTTCCACAGCATCAAGCAGACGCGCGTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234092 representing NM_001202475
 Red=Cloning site Green=Tags(s)

MRGPSPPGLLYVPHLLCLLCLLPPPLQYAAGQSQMPKDQPLWALLEQYCHTIMITLNLSPYSYCNTT
 LDQIGTCWPRSAAGALVERPCPEYFNGVKYNTTRNAYRELENGTWASKINYSQCEPILDDKQRKYDLHY
 RIALVVNYLGHCVSVAALVAAFLLFLALRSIRCLRNVIHWNLITTFILRNVMWFLQLVDHEVHESNEVW
 CRCITTIFFNYFVVTNFFWMFVEGCVLHTAIVMTYSTERLRKCLFLFIGWCIPFPIIIVAWAIGKLYYENEQ
 CWFGKEPGLVDYIYQGPILVLLINFVFLFNIVRILMTKLRASSTSETIQYRKAVKATLVLLPLLGIT
 MLFFVNPGEDDLSQIMFIYNSFLQSFQGFVSVFYCFNVEVRSAVRKRWRHWQDHHSLRVPARAMSI
 PTPSPTRISFHSIKQTAAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001202475

ORF Size: 1314 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_001202475.1](#), [NP_001189404.1](#)

RefSeq Size: 2904 bp

RefSeq ORF: 1317 bp

Locus ID: 1395

UniProt ID: [Q13324](#)

Cytogenetics: 7p14.3

Protein Families: Druggable Genome, Transmembrane
Protein Pathways: Neuroactive ligand-receptor interaction
MW: 51.3 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 RC234092