

Product datasheet for **RC233975**

Corticotropin Releasing Factor Receptor 2 (CRHR2) (NM_001202481) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Corticotropin Releasing Factor Receptor 2 (CRHR2) (NM_001202481) 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:

>RC233975 representing NM_001202481
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAAGAGAGCCTTGGCCTGAAGACAGGGACCTGGGCTTTCCTCAGCTCTTCTGCCAAGGTCCCTACT
 CCTACTGCAACACGACCTTGGACCAGATCGGAACGTGCTGGCCCCGACGCTGCCGGAGCCCTCGTGGA
 GAGGCCGTGCCCGAGTACTTCAACGGCGTCAAGTACAACACGACCCGGAATGCCTATCGAGAATGCTTG
 GAGAATGGGACGTGGCCTCAAAGATCAACTACTCACAGTGTGAGCCATTTTGGATGACAAGCAGAGGA
 AGTATGACCTGCACTACCGCATCGCCCTTGTCTGCAACTACCTGGGCCACTGCGTATCTGTGGCAGCCCT
 GGTGGCCGCTTCTGCTTTTCTGGCCCTGCGGAGCATTGCTGTCTGCGGAATGTGATTCACTGGAAC
 CTCATCACCACCTTATCCTGCGAAATGTCATGTGGTTCTGCTGCAGCTCGTTGACCATGAAGTGCACG
 AGACAAATGAGGTCTGGTCCGCTGCATCACCACCATCTCAACTACTTCGTGGTGACCAACTTCTTCTG
 GATGTTTGTGGAAGGCTGTACCTGCACACGGCCATTGTCATGACCTACTCCACTGAGCGCTGCGCAAG
 TGCTCTTCTCTTCATCGGATGGTGCATCCCCTTCCCCATCATCGTCGCTGGGCCATCGCAAGCTCT
 ACTATGAGAATGAACAGTGTGGTTTGGCAAGGAGCCTGGCGACCTGGTGGACTACATCTACCAAGGCC
 CATCATTCTCGTCTCTGATCAATTTCTGATTTCTGTTCACATCGTCAGGATCCTAATGACAAAGTTA
 CGCGCTCCACCACATCCGAGACAATCCAGTACAGGAAGGAGTGAAGGCCACCCCTGGTGTCTCTGCCCC
 TCTGGGCATCACCTACATGCTTCTTCTGTCATCCCGGGGAGGACGACCTGTACAGATCATGTTTCAT
 CTATTTCAACTCCTTCTGCAGTCGTCCAGGGTTTCTTCTGTCGTCTTCTACTGCTTCTCAATGGA
 GAGGTGCGCTCAGCCGTGAGGAAGAGGTGGCACCCTGGCAGGACCATCACTCCCTTCGAGTCCCCATGG
 CCGGGCCATGTCCATCCCTACATCACCACACGGATCAGCTTCCACAGCATCAAGCAGACGGCCGCTGT
 G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC233975 representing NM_001202481
 Red=Cloning site Green=Tags(s)

MGREPWPEDRDLGFPQLFCQGPYSYCNTTLDQIGTCWPRSAAGALVERPCPEYFNGVKYNTTRNAYRECL
 ENGTWASKINYSQCEPILDDKQRKYDLHYRIALVVNYLGHCVSVAALVAAFLLFLALRSIRCLRNVIIHWN
 LITTFILRNVMWFLQLVDHEVHESNEVWCRCITTIFFNYFVVTNFFWMFVEGCYLHTAIVMTYSTERLRK
 CLFLFIGWCIPIIIVAWAIGKLYYENEQWFGKEPGDLVDYIYQGPILVLLINFVFLFNIVRILMTKL
 RASTTSETIQYRKAVKATLVLLPLLGITIYMLFFVNPGEDDLSQIMFIYFNSFLQSFQGFVSVFYCFFNG
 EVRSAVRKRWHRWQDHSLRVPAMRAMSIPTSPTRISFHSIKQTAAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001202481

ORF Size: 1191 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_001202481.1](#), [NP_001189410.1](#)

RefSeq Size: 3131 bp

RefSeq ORF: 1194 bp

Locus ID: 1395

UniProt ID: [Q13324](#)

Cytogenetics: 7p14.3

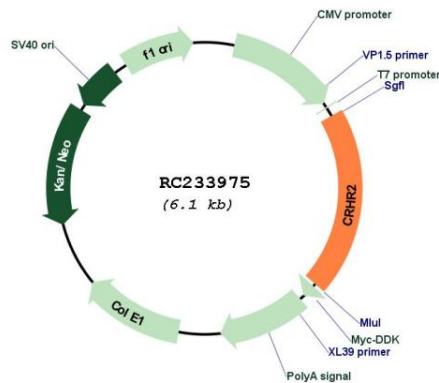
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 46.9 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 RC233975