

Product datasheet for **RG234014**

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:	TurboGFP
Symbol:	Corticotropin Releasing Factor Receptor 2
Synonyms:	CRF-RB; CRF2; CRFR2; HM-CRF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG234014 representing NM_001202482
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGCGGCACTGCTCCACAGCCTGCTGGAGGCCAACTGCAGCCTGGCGCTGGCTGAAGAGCTGCTCT
 TGGACGGCTGGGGCCACCCCTGGACCCGAGGGTCCCTACTCCTACTGCAACACGACCTTGGACCAGAT
 CGGAACGTGCTGGCCCCGACGCGTCCCGGAGCCCTCGTGGAGAGGCCGTGCCCCGAGTACTTCAACGGC
 GTCAAGTACAACACGACCCGGAATGCCTATCGAGAATGCTTGGAGAATGGGACGTGGGCCTCAAAGATCA
 ACTACTCACAGTGTGAGCCATTTTGGATGACAAGAGGAAGTATGACCTGCACTACCGCATCGCCCTTGT
 CGTCAACTACCTGGGCCACTGCGTATCTGTGGCAGCCCTGGTGGCCGCTTCTGCTTTTCTGGCCCTG
 CGGAGCATTTCGCTGTCTGCGGAATGTATTCACTGGAACCTCATACCACCTTTATCCTGCGAAATGTCA
 TGTGGTTCCTGCTGCAGCTCGTTGACCATGAAGTGCACGAGCAATGAGGTCTGGTCCCGCTGCATCAC
 CACCATTTCAACTACTTCGTGGTGACCACTTCTTCTGGATGTTTGTGAAGGCTGCTACCTGCACACG
 GCCATTGTCATGACCTACTCCACTGAGCGCCTGCGCAAGTGCCTTTCCTCTTATCGGATGGTGCATCC
 CCTTCCCATCATCGTCGCTGGCCATCGGCAAGCTCTACTATGAGAATGAACAGTGTGGTTTGGCAA
 GGAGCCTGGCGACCTGGTGGACTACATCTACCAAGGCCCATCATTCTCGTGCTCCTGATCAATTTTCGTA
 TTTCTGTTCAACATCGTCAGGATCTAATGACAAAGTTACGCGCGTCCACCACATCCGAGACAATCCAGT
 ACAGGAAGGCAGTGAAGGCCACCTGGTGTCTCTGCCCTCCTGGGCATCACCTACATGCTCTTCTTCGT
 CAATCCCGGGGAGGACGACCTGTACAGATCATGTTTCACTTCAATCCTTCTGAGCTCGTTCCAG
 GGTTTCTCGTGTCTGTCTTCTACTGCTTCTTCAATGGAGAGTGCCTCAGCCGTGAGGAAGAGGTGGC
 ACCGCTGGCAGGACCATCACTCCCTTCGAGTCCCATGGCCCGGCCATGTCCATCCCTACATCACCCAC
 ACGGATCAGCTTCCACAGCATCAAGCAGACGGCCGCTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234014 representing NM_001202482
 Red=Cloning site Green=Tags(s)

MDAALLHSLLEANCSLALAEELLLDGGWPPLDPEGPYSYCNNTLLDQIGTCWPRSAAGALVERPCPEYFNG
 VKYNTTRNAYRELENGTWASKINYSQCEPILDDKRKYDLHYRIALVVNYLGHCVSAALVAAFLLFLAL
 RSIRCLRNVIHWNLITTFILRNVMWFLQLVDHEVHESNEVWCRCITTFNYFVVTNFFWMFVEGCYLHT
 AIVMTYSTERLRKCLFLFIGWCIPFPII VAWAIGKLYENEQCWFKEPGLVDYIYQGP IILVLLINFLV
 FLFNIVRILMTKLRASTTSETIQYRKAVKATLVLLPLLGITMYLFFVNPGEDDL SQIMFIYFNSFLQSFQ
 GFFVSVFYCFNGEVRS AVRKRWRHQDHSLRVP MARAMSIPTSPTRISFHSIKQTA AV

TRTRPLE - GFP Tag - V

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](#)

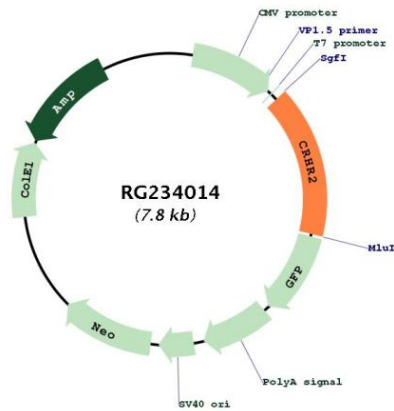
Cytogenetics: 7p14.3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

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 RG234014