

## Product datasheet for **RG233975**

### 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:	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:**

>RG233975 representing NM\_001202481  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGGAAGAGAGCCTTGGCCTGAAGACAGGGACCTGGGCTTTCCTCAGCTCTTCTGCCAAGTCCCTACT  
 CCTACTGCAACACGACCTTGGACCAGATCGGAACGTGCTGGCCCCGACGCTGCCGGAGCCCTCGTGGA  
 GAGGCCGTGCCCGAGTACTTCAACGGCGTCAAGTACAACACGACCCGGAATGCCTATCGAGAATGCTTG  
 GAGAATGGGACGTGGGCCTCAAAGATCAACTACTCACAGTGTGAGCCATTTTGGATGACAAGCAGAGGA  
 AGTATGACCTGCACTACCGCATCGCCCTTGTCTGCAACTACCTGGGCCACTGCGTATCTGTGGCAGCCCT  
 GGTGGCCGCTTCTGCTTTTCTGGCCCTGCGGAGCATTGCTGTCTGCGGAATGTGATTCACTGGAAC  
 CTCATCACCACCTTTATCCTGCGAAATGTCATGTGGTTCTGCTGCAGCTCGTTGACCATGAAGTGCACG  
 AGAGCAATGAGGTCTGGTGCCGCTGCATCACCACCATCTCAACTACTTCGTGGTGACCAACTTCTCTG  
 GATGTTTGTGGAAGGCTGTACCTGCACACGGCCATTGTCATGACCTACTCCACTGAGCGCTGCGCAAG  
 TGCTCTTCTCTTCATCGGATGGTGCATCCCCTTCCCCATCATCGTCGCTGGGCCATCGCAAGCTCT  
 ACTATGAGAATGAACAGTGTGGTTTGGCAAGGAGCCTGGCGACCTGGTGGACTACATCTACCAAGGCC  
 CATCATTCTCGTCTCTGATCAATTTCTGATTTCTGTTCACATCGTCAGGATCCTAATGACAAAGTTA  
 CGCGCTCCACCACATCCGAGACAATCCAGTACAGGAAGGCAAGTGAAGGCCACCCCTGGTGTCTCTGCCCC  
 TCCTGGGCATCACCTACATGCTCTTCTTCGTCAATCCCGGGGAGGACGACCTGTACAGATCATGTTTCA  
 CTATTTCAACTCCTTCTGCAGTCGTCCAGGGTTTCTTCGTGTCTGTCTTCTACTGCTTCTTCAATGGA  
 GAGGTGCGCTCAGCCGTGAGGAAGAGGTGGCACCCTGGCAGGACCATCACTCCCTTCGAGTCCCATGG  
 CCCGGCCATGTCCATCCCTACATCACCACACGGATCAGCTTCCACAGCATCAAGCAGACGGCCGCTGT  
 G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG233975 representing NM\_001202481  
 Red=Cloning site Green=Tags(s)

MGREPWPEDRDLGFPQLFCQGPYSYCNNTLDQIGTCWPRSAAGALVERPCPEYFNGVKYNTTRNAYRECL  
 ENGTWASKINYSQCEPILDDKQRKYDLHYRIALVVNYLGHCVSVAALVAAFLLFLALRSIRCLRNVIHWN  
 LITTFILRNVMWFLQLVDHEVHESNEVWCRCITTIFFNYFVVTNFFWMFVEGCYLHTAIVMTYSTERLRK  
 CLFLFIGWCIPFPIIIVAWAIGKLYENEQCWFGEKPGDLVDYIYQGPILVLLINFVFLFNIVRILMTKL  
 RASTTSETIQYRKAVKATLVLLPLLGITYMLFFVNPGEDDLSQLMFIYFNSFLQSFQGFVSVFYCFENG  
 EVRSAVRKRWHRWQDHSLRVPAMAMSIPTSPTRISFHSIKQTAAV

TRTRPLE - GFP Tag - V

**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](#)

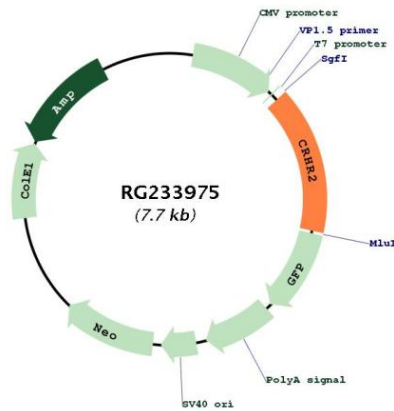
**Cytogenetics:** 7p14.3

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**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 RG233975