

Product datasheet for **RG234092**

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:	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)



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ORF Nucleotide Sequence:

>RG234092 representing NM_001202475
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGGGTCCCTCAGGGCCCCAGGCCTCTCTACGTCCACACCTCCTCTGCCTGCTCTGCCTCC
 TCCCACCGCCGCTCCAATACGCAGCCGGCAGAGCCAGATGCCAAAGACCAGCCCTGTGGCACTTCT
 GGAGCAGTACTGCCACACCATCATGACCCTCACCAACCTCTCAGGTCCCTACTCCTACTGCAACACGACC
 TTGGACCAGATCGGAACGTGCTGGCCCCGAGCGCTGCCGGAGCCCTCGTGGAGAGGCCGTGCCCGAGT
 ACTTCAACGGCGTCAAGTACAACACGACCCGGAATGCCTATCGAGAATGCTTGGAGAATGGGACGTGGC
 CTCAAAGATCAACTACTCACAGTGTGAGCCATTTTGGATGACAAGCAGAGGAAGTATGACCTGCACTAC
 CGCATCGCCCTTGTGTCAACTACCTGGGCCACTGCGTATCTGTGGCAGCCCTGGTGGCCGCTTCTGTC
 TTTTCTGGCCCTGCGGAGCATTGCTGTCTGCGGAATGTGATTCACTGGAACCTCATCACCACCTTTAT
 CCTGCGAAATGTCATGTGTTCTGCTGCAGCTCGTTGACCATGAAGTGCACGAGAGCAATGAGGTCTGG
 TGCCGCTGCATCACCACCATCTTCAACTACTTCGTGGTGACCAACTTCTTCTGGATGTTTGTGGAAGGCT
 GCTACCTGCACACGGCCATTGTCATGACCTACTCCACTGAGCGCCTGCGCAAGTGCCCTTCTCTTTCAT
 CGGATGGTGCATCCCCTTCCCATCATGTCGCTCGCCATCGGCAAGCTCTACTATGAGAATGAACAG
 TGCTGGTTTGGCAAGGAGCCTGGCGACCTGGTGGACTACATCTACCAAGGCCCATCATTCTCGTCTCC
 TGATCAATTTTCGTATTTCTGTCAACATCGTCAGGATCCTAATGACAAAGTTACGCGCGTCCACCACATC
 CGAGACAATCCAGTACAGGAAGGAGTGAAGGCCACCTGGTGTCTCTGCCCTCCTGGGCATCACCTAC
 ATGCTCTTCTCGTCAATCCCGGGGAGGACGACCTGTACAGATCATGTTTCATCTATTTCAACTCCTTCC
 TGCAGTCGTTCCAGGGTTCTTCTGTCTGTCTTCTACTGCTTCTCAATGGAGAGGTGCGCTCAGCCGT
 GAGGAAGAGGTGGCAGCCGCTGGCAGGACCATCACTCCCTTCGAGTCCCCATGGCCCGGCCATGTCCATC
 CCTACATCACCACACGGATCAGCTTCCACAGCATCAAGCAGACGCGCGCTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234092 representing NM_001202475
 Red=Cloning site Green=Tags(s)

MRGPSPPGLLYVPHLLCLLCLLPPPLQYAAGQSQMPKDQPLWALLEQYCHTITMLTNLSGPYSYCNTT
 LDQIGTCWPRSAAGALVERPCPEYFNGVKYNTTRNAYRELENGTWASKINYSQCEPILDDKQRKYDLHY
 RIALVNYLGHCVSVAALVAFLFLALRSIRCLRNVIHWNLITTFILRNVMWFLQLVDHEVHESNEVW
 CRCITTFNYFVVTNFFWMFVEGCVLHTAIVMTYSTERLRKCLFLFIGWCIPFPIIIVAWAIGKLYENEQ
 CWFGKEPGLVDYIYQGPILVLLINFVFLFNIVRILMTKLRASSTSETIYQRKAVKATLVLLPLLGITY
 MLFFVNPGEDDLSQLMFYFNSFLQSFQGFVSVFYCFNVEVRSAVRKRWRHWQDHSLRVPARAMSI
 PTPSPTRISFHSIKQTAAV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-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](#)

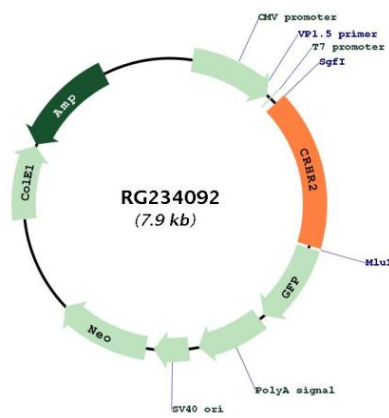
Cytogenetics: 7p14.3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

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 RG234092