

## Product datasheet for **SC331461**

### Corticotropin Releasing Factor Receptor 2 (CRHR2) (NM\_001202483) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Corticotropin Releasing Factor Receptor 2 (CRHR2) (NM\_001202483) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Corticotropin Releasing Factor Receptor 2  
**Synonyms:** CRF-RB; CRF2; CRFR2; HM-CRF  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC331461 representing NM\_001202483.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGACGCGGCACTGCTCCACAGCCTGCTGGAGGCCAACTGCAGCCTGGCGCTGGCTGAAGAGCTGCTC
TTGGACGGCTGGGGGCCACCCCTGGACCCCGAGGGTCCCTACTCCTACTGCAACACGACCTTGGACCAG
ATCGGAACGTGCTGGCCCGCAGCGCTGCCGGAGCCCTCGTGGAGAGGCCGTGCCCGAGTACTTCAAC
GGCGTCAAGTACAACACGACCCGGAATGCCTATCGAGAATGCTTGGAGAATGGGACGTGGCCCTCAAAG
ATCAACTACTCACAGTGTGAGCCATTTTGGATGACAAGCAGAGGAAGTATGACCTGCACCTACCGCATC
GCCCTTGTGCTCAACTACCTGGGCCACTGCGTATCTGTGGCAGCCCTGGTGGCCGCTTCTCTGCTTTTC
CTGGCCCTGCGGAGCATTGCTGTCTGCGGAATGTGATTCACTGGAACCTCATCACACCTTTATCTCTG
CGAAATGTCATGTGGTTCCTGCTGCAGCTCGTTGACCATGAAGTGCACGAGCAATGAGGTCTGGTGC
CGCTGCATCACCACCATTCTCAACTACTTCTGGTGGACCAACTTCTTCTGGATGTTTGTGGAAGGCTGC
TACCTGCACACGGCCATTGTCATGACCTACTCCACTGAGCGCCTGCGCAAGTGCCTTCTCTTTCATC
GGATGGTGCATCCCTTCCCATCATCGTCGCCTGGGCCATCGGCAAGCTCTACTATGAGAATGAACAG
TGCTGGTTTGGCAAGGAGCCTGGCGACCTGGTGGACTACATCTACCAAGGCCCATCATTCTCGTGCTC
CTGATCAATTTGATTTCTGTTCAACATCGTCAGGATCCTAATGACAAAGTTACGCGGTCCACCACA
TCCGAGACAATCCAGTACAGGAAGGCAGTGAAGGCCACCCTGGTGTCTTCTGCCCCTCTGGGCATCACC
TACATGCTCTTCTCGTCAATCCCGGGGAGGACGACCTGTACAGATCATGTTTCACTATTCAACTCC
TTCTGAGTCTGTTCCAGGGTTTCTTCTGTCTGTCTTCTACTGCTTCTTCAATGGAGAGAGCTGGGTG
AGCAAGGAAGCCAGGCCGAGGCCCTCATGGAAGAGAGAAGCCAGAGCAGAGGTGGTGA
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001202483  
**Insert Size:** 1164 bp  
**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001202483.1</a></u>
<b>RefSeq Size:</b>	3109 bp
<b>RefSeq ORF:</b>	1164 bp
<b>Locus ID:</b>	1395
<b>UniProt ID:</b>	<u><a href="#">Q13324</a></u>
<b>Cytogenetics:</b>	7p14.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Neuroactive ligand-receptor interaction
<b>MW:</b>	44.8 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (5) contains an additional exon at the penultimate position compared to variant 1, resulting in a frame-shift and a shorter isoform (5, also known as isoform D) with a distinct C-terminus compared to isoform 1.</p>