

Product datasheet for **RR206382**

Crhr1 (NM_030999) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Crhr1 (NM_030999) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Crhr1
Synonyms: CRFR1; CRH-R 1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR206382 representing NM_030999
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGACGGCGCCGAGCTCCGGCTCGTGAAGGCCCTTCTCCTTCTGGGGCTGAACCCTGTGTCCACCT
 CCCTTCAGGATCAGCGCTGTGAGAACCTGTCCCTGACCAGCAATGTTTCTGGCCTGCAGTGAATGCATC
 CGTGGACCTCATTGGCACCTGCTGGCCCCGGAGCCCTGCGGGCCAGTTGGTGGTCCGACCCTGCCCTGCC
 TTTTTCTACGGTGTCCGCTACAACACGACAACAATGGCTACCGGGAGTGCCTGGCCAACGGCAGCTGGG
 CAGCCCCGTGTAATTATTCTGAGTGCCAGGAGATTCTCAACGAAGAGAAGAAGAGCAAAGTACACTACCA
 TGTTGCAGTCATCATCACTACCTGGGTACTGCATCTCCCTGGTAGCCCTCCTGGTGGCCTTTGTCCCTC
 TTCTTGCGGCTCAGGAGCATCCGGTGCCTGAGAAACATCATCCACTGGAACCTCATCTCGGCTTTTATCC
 TACGCAACGCCACGTGGTTTGTGGTCCAGCTCACCGTGAGCCCCGAGGTGCACCAGAGCAATGTGGCCTG
 GTGTAGGTTGGTGACAGCCGCTACAATTACTTCCATGTAACCAACTTCTTCTGGATGTTTCGGTGAGGGC
 TGCTACCTGCACACAGCCATTGTGCTCACGTACTCCACCGACCGTCTGCGCAAGTGGATGTTCTGTGCA
 TTGGCTGGGGTGTACCTTCCCCATCATTGTGGCTTGGCCATTGGGAAGCTGCACTACGACAATGAAAA
 GTGCTGGTTTGGCAAACGCTCTGGGGTATACACTGACTACATCTACCAGGGCCCCATGATCCTGGTCCCTG
 CTGATCAACTTTATCTTCTTCAACATTGTCGCATCCTCATGACCAAACTCCGGGCATCCACTACAT
 CTGAGACCATTACGTACAGGAAGGCTGTGAAGGCACTCTGGTGTCTCTGCCCTTCTGGGCATCACCTA
 CATGTTGTTCTTCTGCAACCCTGGAGAGGACGAGGTCTCCAGGGTCTTCTCATCTACTTCAACTTTTT
 CTGGAGTCTTTTCCAGGGCTTCTTGTGTCTGTGTTCTACTGTTTTCTGAACAGTGAGGTCCGCTCCGCTA
 TCCGGAAGAGGTGGCGTCCGGTGGCAGGACAAGCACTCCATCAGAGCCCGAGTGGCCCCGAGCTATGTCCAT
 CCCCACCTCCCCGACCAGAGTCAGCTTTACAGCATCAAGCAGTCCACAGCAGTG

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR206382 representing NM_030999
Red=Cloning site Green=Tags(s)

MGRRPQLRLVKALLLLGLNPVSTSLQDQRCENLSLTSNVSLQCNASVDLIGTCWPRSPAGQLVVRPCPA
 FFYGVRYNTTNGYRECLANGSWAARVNYSECQEILNEEKSKVHYHVAVIINYLGHCSLVALLVAFVL
 FLRLRSIRCLRNIHWNLISAFILRNATWFFVQLTVSPEVHQSNVAWCRLVTAAYNFHVNTFFWFMFEGG
 CYLHTAIVLTYSTDRLRKWMFVCIGWGVFPFIIVAWAIGKLHYDNEKCFWFKRPGVYTDYIYQGPMILVL
 LINFIFLFNIVRILMTKLRASSTSETIQYRKAVKATLVLLPLLGITMYLFFVNPGEDEVSRVVFYFNSF
 LESFQGGFFVSFVFCFLNSEVRSAIRKRRWRQDKHSIRARVARAMSIPTSPTRVSVFHSIKQSTAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1821_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030999

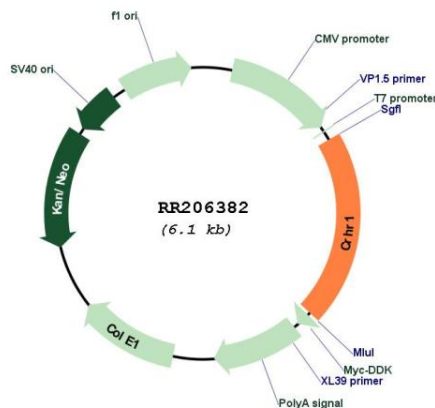
ORF Size: 1245 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_030999.4</u> , <u>NP_112261.1</u>
RefSeq Size:	1248 bp
RefSeq ORF:	1248 bp
Locus ID:	58959
UniProt ID:	<u>P35353</u>
Cytogenetics:	10q32.1
MW:	48.3 kDa
Gene Summary:	This gene encodes a member of the G-protein coupled receptor family. The encoded protein is a receptor for corticotropin-releasing factor (CRH) and urocortin (UCN). The interaction of this protein with CRH and UCN triggers G-protein coupled signaling. This protein plays a pivotal role in mediating the CRH-elicited effects in depression and anxiety. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2014]

Product images:



Circular map for RR206382