

Product datasheet for MR222960

Crhr1 (NM_007762) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crhr1 (NM_007762) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Crhr1
Synonyms:	CRF; CRF-R; CRF1R; CRFR1; Crhr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222960 representing NM_007762 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACAGCGCCCGAGCTCCGGCTCGTGAAGGCCCTTCTCCTTCTGGGGCTGAACCCGCTCCACCT
CCCTCCAGGATCAGCAGTGTGAGAGCCTGTCCCTGGCCAGCAATGTCTTGGCCTGCAGTGAATGCCTC
CGTGGACCTCATTGGCACCTGCTGGCCAGGAGCCCTGCAGGGCAGTTGGTGGTTCGGCCCTGCCCTGCC
TTTTTCTACGGTGTCCGCTACAACACCACAACAATGGCTACCGGAATGCCTGGCCAACGGCAGCTGGG
CAGCCCGTGTGAATTATTCTGAGTGCCAGGAGATTCTCAACGAAGAGAAGAAGAGCAAAGTGCCTACCA
CATTGCCGTCATCATCACTACCTGGGCCACTGCATCTCCCTGGTGGCCCTCCTGGTGGCCTTTGTCCCTC
TTCTTGGGCTCAGGAGCATCCGGTGCCTGAGGAACATCATCCACTGGAACCTCATCTCGGCTTTTATCC
TGCGCAACGCCACGTGGTTTGTGGTCCAGCTCACCGTGAGCCCGAGGTCCACCAGAGCAACGTGGCCTG
GTGACGGTGGTACAGCCGCTACAACACTTCCACGTAACCAACTTCTTGGATGTTTCGGTGGGGC
TGCTACCTGCACAGCCATCGTACTCACGTAACCGACCGTCTGCGCAAGTGGATGTTTCGTCTGCA
TCGGCTGGGTGTGCCTTTCCCATCATTGTGGCTTGGCCATTGGGAACTTTACTACGACAATGAAA
GTGCTGGTTTGGCAAACGTCCTGGAGTATATACTGACTACATCTACCAGGGCCCCATGATCCTGGTCCCTG
CTGATCAACTTTATCTTCTTCAACATTGTCGCATCCTCATGACCAAACTCCGAGCATCCACCACAT
CTGAGACTATTACGTACAGGAAGGCTGTGAAGGCACTCTGGTGTCTTGGCCCTCCTGGGCATCACCTA
CATGTTGTTCTTCTGCAACCCTGGGAGGACGAGGTCTCCAGGGTGTCTTCACTCAACTCTTTC
CTGGAGTCTTTTCCAGGGCTTCTCGTGTCTGTGTTCTATTGTTTTCTGAACAGTGGTCCGCTCTGCCA
TCCGGAAGAGGTGGCGCGATGGCAGGACAAGCACTCCATCAGAGCCCGAGTGGCCCGCCATGTCCAT
CCCCACCTCCCCACCAGAGTCAGCTTCCACAGCATCAAGCAGTCCACAGCAGTG

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222960 representing NM_007762
Red=Cloning site Green=Tags(s)

MGQRPQLRLVKALLLLGLNPVSTSLQDQCESLSLASNVSGLQCNASVDLIGTCWPRSPAGQLVVRPCPA
 FFYGVRYNTTNGYRECLANGSWAARVNYSECQEILNEEKSKVHYHIAVIINYLGHCSLVALLVAFVL
 FLRLRSIRCLRNIHWNLISAFILRNATWVQVQLVTSPEVHQSNVAWCRLVTAAYNYFHVTNFFWMFGEG
 CYLHTAIVLTYSTDRLRKWMFVFCIGWGVFPFIIVAVAIKGLYYDNEKCFWFKRPGVYTDYIYQGMILVL
 LINFIFLNFIVRILMTKLRASTTSETIQYRKAVKATLVLLPLLGITMYLFFVNPGEDEVSRVVFYFNSF
 LESFQGGFFVSFVYCFLNSEVRSAIRKRWRWQDKHSIRARVARAMSIPTSPTRVSVFHSIKQSTAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9018_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_007762

ORF Size: 1245 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_007762.5](#), [NP_031788.1](#)

RefSeq Size: 2428 bp

RefSeq ORF: 1248 bp

Locus ID: 12921

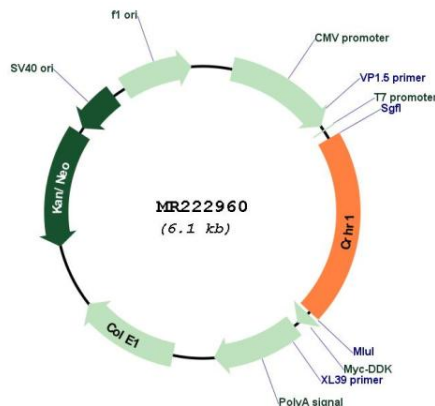
UniProt ID: [P35347](#)

Cytogenetics: 11 67.77 cM

MW: 48.2 kDa

Gene Summary: The protein encoded by this gene is a G-protein coupled receptor that binds corticotropin-releasing factor (CRH) and urocortin (UCN) with high affinity. The encoded protein upregulates adenylate cyclase activity and intracellular cAMP levels. This protein is essential for the activation of signal transduction pathways that regulate diverse physiological processes including stress, reproduction, immune response, and obesity. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR222960