

Product datasheet for **MG226210**

Crhr2 (NM_009953) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Crhr2 (NM_009953) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Crhr2
Synonyms: CRF-R2; Crfr2; CRFR2alpha; CRFR2beta
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226210 representing NM_009953
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGACCCAGGCTCTCTCCAGTGCACAGCTTCTCCTCGCTGTTTTCCCTGCTTCCAGTGCTCC
 AGGTGGCCCAACCAGGCCAGGCACCCAGGACCAGCCCTGTGGACACTTTGGAGCAGTACTGCCACAG
 GACCACAATTGGGAATTTTCAGGTCCCTACACCTACTGCAACACGACCTGGACCAGATCGGGACCTGC
 TGGCCACAGAGCGCACCCGGAGCCCTAGTAGAGAGACCGTGCCCCGAGTACTTCAATGGCATCAAGTACA
 ACACGACCCGGAATGCCTACAGAGAGTGCCTGGAGAACGGGACCTGGGCCTCAAGGGTCAACTACTACA
 CTGCGAACCCATTTGGATGACAAGCAGAGAAAGTATGACCTGCATTACCGAATCGCCCTCATTGTCAAC
 TACCTGGGTCACTGTGTTCCGTGGTGGCCCTGGTGGCCGCTTTCCTGCTTTTCTAGTGCCTGGGAGTA
 TCCGCTGCCTGAGGAATGTGATCCACTGGAACCTCATCACCACTTATTCTGAGAAACATCGCGTGGTT
 CCTGCTGCAACTCATCGACCACGAAGTGCACGAGGGCAATGAGGTCTGGTGCCGCTGCATCACCACCATC
 TTCAACTATTTTGTGGTCACTTCTTCTGGATGTTTGTGGAGGGCTGCTACCTGCACACGGCCATTG
 TCATGACGTACTCCACAGAGCACCTGCGCAAGTGGCTTTTCTCTTATTGGATGGTGCATTCCCTGCC
 TATCATCATCGCCTGGCAGTTGGCAAACCTACTATGAGAATGAGCAGTGCCTGGTTTGGCAAGGAAGCT
 GGTGATTTGGTGGACTACATCTACCAGGGCCCGTCATGCTTGTGCTGTTGATCAATTTTGTATTTCTGT
 TTAACATCGTCAGGATCCTGATGACGAAGTACGAGCATCCACCAGTCCGAGACAATCCAATACAGGAA
 GGCAGTGAAGGCCACGCTGGTCTCCTCCCGTGTGGGCATCACCTACATGCTTCTTTGTCAATCCT
 GGCGAGGACGACCTGTCCAGATTGTGTTCACTACTTCAACTCTTCTGCAGTCTTCCAGGGTTTCT
 TTGTGTCGTTTTCTACTGCTTCTTCAATGGAGAGGTGCGCGGCCCTGAGAAAGCGGTGGCACCCTG
 GCAGGACCACCGCCCTCCGGTGCCTGTGGCCCGGCCATGTCCATCCCTACGTCGCCACCAGGATC
 AGCTTCCACAGCATCAAGCAGACAGCTGCTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226210 representing NM_009953
 Red=Cloning site Green=Tags(s)

MGTPGSLPSAQLLLCLFSLLPVLQVAQPQAPQDQPLWTLLEQYCHRTTIGNFSGPYTYCNTTLDQIGTC
 WPQSAPGALVERPCPEYFNGIKYNTTRNAYRECLNGTWASRVNYSHCEPILDDKQRKYDLHYRIALIVN
 YLGHCVSVVLAFAFLFLVLRISIRCLRNVIHWNLITTFILRNIAWFLQLIDHEVHEGNEVWCRCITTI
 FNYFVVTNFFWMFVEGCVLHTAIVMTYSTEHLRKWFLF IGWCIPCPPIIIAWAVGKLYYENEQCWFGKEA
 GDLDVYIYQGPVMLVLLINVFVLFNIVRILMTKLRASSTSETIQYRKAVKATLVLLPLLGITYMLFFVNP
 GEDDLSQIVFIYFNSFLQSFQGFVSVFYCFNGEVRAALRKRWHRWQDHHALRVPVARAMSIPTSPTRI
 SFHSIKQTAAV

TRTRPLE - GFP Tag - V

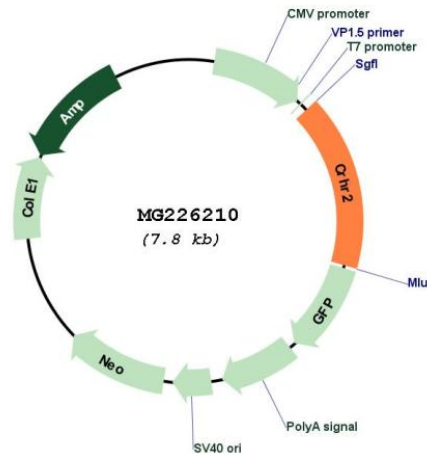
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_009953

ORF Size:	1290 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	NM_009953.3 , NP_034083.2
RefSeq Size:	2655 bp
RefSeq ORF:	1293 bp
Locus ID:	12922
Cytogenetics:	6 27.33 cM
Gene Summary:	G-protein coupled receptor for CRH (corticotropin-releasing factor), UCN (urocortin), UCN2 and UCN3. Has high affinity for UCN. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and down-stream effectors, such as adenylate cyclase. Promotes the activation of adenylate cyclase, leading to increased intracellular cAMP levels.[UniProtKB/Swiss-Prot Function]