

Product datasheet for **MG222960**

Crhr1 (NM_007762) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crhr1 (NM_007762) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Crhr1
Synonyms:	CRF; CRF-R; CRF1R; CRFR1; Crhr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222960 representing NM_007762 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACAGCGCCCGCAGCTCCGGCTCGTGAAGGCCCTTCTCCTTCTGGGGCTGAACCCGCTCCACCT
CCCTCCAGGATCAGCAGTGTGAGAGCCTGTCCCTGGCCAGCAATGTCTTGGCCTGCAGTGAATGCCTC
CGTGGACCTCATTGGCACCTGCTGGCCAGGAGCCCTGCAGGGCAGTTGGTGGTTCGGCCCTGCCCTGCC
TTTTTCTACGGTGTCCGCTACAACACCACAACAATGGCTACCGGAATGCCTGGCCAACGGCAGCTGGG
CAGCCCGTGTGAATTATTCTGAGTGCCAGGAGATTCTCAACGAAGAGAAGAAGAGCAAAGTGCCTACCA
CATTGCCGTCATCATCACTACCTGGGCCACTGCATCTCCCTGGTGGCCCTCCTGGTGGCCTTTGTCCCTC
TTCTTGGGCTCAGGAGCATCCGGTGCCTGAGGAACATCATCCACTGGAACCTCATCTCGGCTTTTATCC
TGCGCAACGCCACGTGGTTTGTGGTCCAGCTCACCGTGAGCCCGAGGTCCACCAGAGCAACGTGGCCTG
GTGAGGCTGGTACAGCCGCTACAACACTTCCACGTAACCAACTTCTTCTGGATGTTTCGGTGGGGC
TGCTACCTGCACAGCCATCGTACTCACGTAACCGACCGTCTGCGCAAGTGGATGTTTCGTCTGCA
TCGGCTGGGTGTGCCTTTCCCATCATTGTGGCTTGGCCATTGGGAACTTTACTACGACAATGAAA
GTGCTGGTTTGGCAAACGCTCCTGGAGTATATACTGACTACATCTACCAGGGCCCCATGATCCTGGTCCCTG
CTGATCAACTTTATCTTCTTCAACATTGTCGCATCCTCATGACCAAACTCCGAGCATCCACCACAT
CTGAGACTATTACGTACAGGAAGGCTGTGAAGGCACTCTGGTGTCTCTGCCCTCCTGGGCATCACCTA
CATGTTGTTCTTCTGCAACCCTGGGAGGACGAGGTCTCCAGGGTGTCTTCACTCAACTCTTTC
CTGGAGTCTTTTCCAGGGCTTCTCGTGTCTGTGTTCTATTGTTTTCTGAACAGTGGTCCGCTCTGCCA
TCCGGAAGAGGTGGCGCGGTGGCAGGACAAGCACTCCATCAGAGCCCGAGTGGCCCGGCCATGTCCAT
CCCCACCTCCCCACCAGAGTCAGCTTCCACAGCATCAAGCAGTCCACAGCAGTG

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTAA



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Protein Sequence: >MG222960 representing NM_007762
 Red=Cloning site Green=Tags(s)

MGQRPQLRLVKALLLLGLNPVSTSLQDQCESLSLASNVSLQCNASVDLIGTCWPRSPAGQLVVRPCPA
 FFYGVRYNTTNGYRECLANGSWAARVNYSECQEILNEEKSKVHYHIAVIINYLGHICISLVALLVAFVL
 FLRLRSIRCLRNIHWNLISAFILRNATWVQVQLVTSPEVHQSNVAWCRLVTAAYNYFHVTNFFWMFGE
 CYLHTAIVLTYSTDRLRKWMFVCIGWVFPFIIVAWAIGKLYDNEKCFWGRKPGVYTDYIYQGPMLVL
 LINFIFLFIIVRILMTKLRASSTSETIQYRKAVKATLVLLPLLGITMYLFFVNPGEDEVSRVVFYFNSF
 LESFQGGFFVSFVYCFLNSEVRSAIRKRWRWQDKHSIRARVARAMSIPTSPTRVSVFHSIKQSTAV

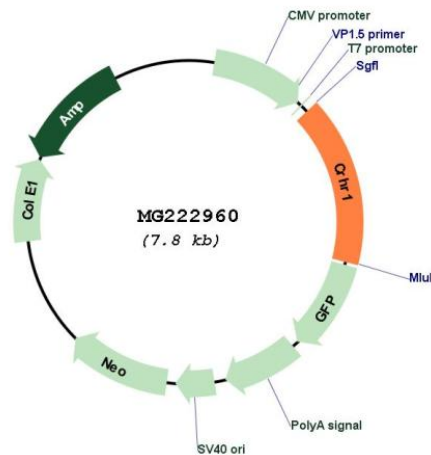
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_007762.4 , NP_031788.1
RefSeq Size:	2428 bp
RefSeq ORF:	1248 bp
Locus ID:	12921
UniProt ID:	P35347
Cytogenetics:	11 67.77 cM
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]