

Product datasheet for **RG237390**

CRF1 (CRHR1) (NM_001303020) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRF1 (CRHR1) (NM_001303020) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CRHR1
Synonyms:	CRF-R; CRF-R-1; CRF-R1; CRF1; CRFR-1; CRFR1; CRH-R-1; CRH-R1; CRHR; CRHR1L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237390 representing NM_001303020. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGTCCGCTACAATACCACAAAAAAGCAAGGTGCACTACCATGTGCGAGTCATCATCAACTAC
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CGGTGCCGCGAAACATCATCCACTGGAACCTCATCTCCGCTTCATCCTGCGCAACGCCACCTGGTTC
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TTCTTTTCAACATCGTCCGCATCCTCATGACCAAGCTCCGGGCATCCACCACGCTGAGACCATTGAG
TACAGGAAGGCTGTGAAAGCCACTCTGGTGTGCTGCCCTCCTGGGCATCACCTACATGCTGTTCTTC
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CAGGGCTTCTTTGTGCTGTGTTCTACTGTTTCTCAATAGTGAGGTCCGTTCTGCCATCCGGAAGAGG
TGGCACCAGGTGGCAGGACAAGCACTCGATCCGTGCCGAGTGGCCCGTCCATGTCCATCCCCACCTCC
CCAACCCGTGTGAGCTTTACAGCATCAAGCAGTCCACAGCAGTCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237390
 Blue=ORF Red=Cloning site Green=Tag(s)

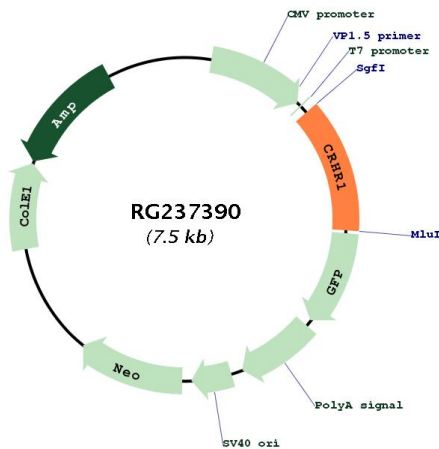
MVSATIPQKKSKVHYHVAVIINYLGHICISLVALLVAFVLFRLRSIRCLRNIHWNLISAFILRNATWF
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 FPIIWAWAIGKLYDNEKCFWFKRPGVYTDYIYQGMILVLLINFIFLFNIVRILMTKLRASSTSETIQ
 YRKAVKATLVLLPLLGITMYLFFVNPGEDEVSRVVFYFNFSFLESFQGGFFVSVFYCLNSEVRSAIRKR
 WHRWQDKHSIRARVARAMSIPTSPTRVSFHSIKQSTAV
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNTAVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001303020

ORF Size:	942 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).
RefSeq:	NM_001303020.1 , NP_001289949.1
RefSeq Size:	2508 bp
RefSeq ORF:	945 bp
Locus ID:	1394
Cytogenetics:	17q21.31
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Long-term depression, Neuroactive ligand-receptor interaction
MW:	37.1 kDa
Gene Summary:	This gene encodes a G-protein coupled receptor that binds neuropeptides of the corticotropin releasing hormone family that are major regulators of the hypothalamic-pituitary-adrenal pathway. The encoded protein is essential for the activation of signal transduction pathways that regulate diverse physiological processes including stress, reproduction, immune response and obesity. Alternative splicing results in multiple transcript variants. Naturally-occurring readthrough transcription between this gene and upstream GeneID:147081 results in transcripts that encode isoforms that share similarity with the products of this gene. [provided by RefSeq, Aug 2016]