

Product datasheet for **RG226816**

CRF1 (CRHR1) (NM_001145146) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRF1 (CRHR1) (NM_001145146) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CRF1
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)



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ORF Nucleotide Sequence:

>RG226816 representing NM_001145146
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGAGGGCACCCGAGCTCCGTCTCGTCAAGGCCCTTCTCCTTCTGGGGCTGAACCCCGTCTCTGCCT
 CCCTCCAGGACCAGCACTGCGAGAGCCTGTCCCTGGCCAGCAACATCTCAGGACTGCAAGTCAACGCATC
 CGTGGACCTCATTGGCACCTGCTGGCCCCGAGCCCTGCGGGGCAGCTAGTGGTTCGGCCCTGCCCTGCC
 TTTTTCTATGGTGTCCGCTACAATACCACAAACAATGGCTACCGGGAGTGCCTGGCCAATGGCAGCTGGG
 CCGCCCCGCTGAATTACTCCGAGTGCCAGGAGATCCTCAATGAGGAGAAAAAAGCAAGGTGCACTACCA
 TGTGCGAGTCATCACTACCTGGGCCACTGTATCTCCCTGGTGGCCCTCCTGGTGGCCTTTGTCCTC
 TTTCTGCGGCTCAGGCCAGGCTGCACCCATTGGGGTGACCAGGCAGATGGAGCCCTGGAGGTGGGGGCTC
 CATGGAGTGGTGGCCATTTAGGTTTGAAGGAGCATCCGGTGCCTGCGAAACATCATCCACTGGAACCT
 CATCTCCGCCCTCATCTGCGCAACGCCACCTGGTTTCGTGGTCCAGCTAACCATGAGCCCGAGGTCAC
 CAGAGCAACGTGGGCTGGTGCAGGTTGGTGACAGCCGCCTACAACACTTCCATGTGACCAACTTCTTCT
 GGATGTTGCGCGAGGGCTGCTACCTGCACACAGCCATCGTGTCTACCTACTCCACTGACCGGCTGCGCAA
 ATGGATGTTTATCTGCATTGGCTGGGGTGTGCCCTTCCCATCATTGTGGCCTGGGCCATTGGGAAGCTG
 TACTACGACAATGAGAAGTGCTGGTTTGGCAAAAGGCCTGGGGTGTACACCGACTACATCTACAGGGCC
 CCATGATCCTGGTCTGTGATCAATTTTCATCTTCTTTTCAACATCGTCCGCATCCTCATGACCAAGCT
 CCGGGCATCCACCAGTCTGAGACCATTAGTACAGGAAGGCTGTGAAAGCCACTCTGGTGTCTGCTGCC
 CTCTGGGCATCACCTACATGCTGTTCTTCGTCAATCCCGGGGAGGATGAGGTCTCCCGGCTCGTCTTCA
 TCTACTTCAACTCCTTCTGGAATCCTCCAGGGCTTCTTTGTGTCTGTGTTCTACTGTTTCTCAATAG
 TGAGTCCGTTCTGCATCCGGAAGAGGTGGCACCGGTGGCAGGACAAGCACTCGATCCGTGCCCGAGTG
 GCCCGTGCCATGTCCATCCACCTCCCAACCGGTGTCAGCTTTCACAGCATCAAGCAGTCCACAGCAG
 TC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226816 representing NM_001145146
 Red=Cloning site Green=Tags(s)

MGGHPQLRLVKALLLLGLNPVSASLQDQHCESSLASNISGLQCNASVDLIGTCWPRSPAGQLVVRPCPA
 FFYGVRYNTTNGYRECLANGSWAARVNYSECQEILNEEKSKVHYHVAVIINYLGHICISLVALLVAFVL
 FLRLRPGCTHWGDQADGALEVGAPWSGAPFQVRRSIRCLRNIHWNLISAFILRNATWFVQLTMSPEVH
 QSNVGCWRLVTAAYNYFHVTFNFFWMFGEFCYLHTAIVLTYSTDRLRKWMFICIGWVFPPIIVAWAIGKL
 YYDNEKCFWFKRPGVYTDYIYQGPMLVLLINIFLFIIVRILMTKLRASSTSETIQYRKAVKATLVLLP
 LLGITYMLFFVNPGEDEVSRVVFYFNSFLESFQGFVSVFYCFLNSEVRSAIRKRWHRWQDKHSIRARV
 ARAMSIPTSPTRVFSHSIKQSTAV

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001145146

ORF Size: 1332 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_001145146.2](#)

RefSeq Size: 2681 bp

RefSeq ORF: 1335 bp

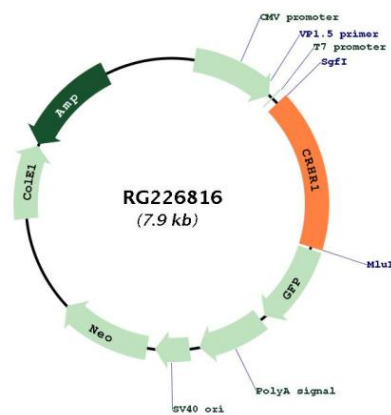
Locus ID: 1394

UniProt ID: [P34998](#)

Cytogenetics: 17q21.31

Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Long-term depression, Neuroactive ligand-receptor interaction
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]

Product images:



Circular map for RG226816