OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG226896

CRF1 (CRHR1) (NM_001145147) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRF1 (CRHR1) (NM_001145147) 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:

>RG226896 representing NM_001145147
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAGGGCACCCGCAGCTCCGTCTCGTCAAGGCCCTTCTCCTTCTGGGGCTGAACCCCGTCTCTGCCT
CCCTCCAGGACCAGCACTGCGAGAGCCTGTCCCTGGCCAGCAACATCTCAGACAATGGCTACCGGGAGTG
CCTGGCCAATGGCAGCTGGGCCGCCCGCGTGAATTACTCCGAGTGCCAGGAGATCCTCAATGAGGAGAAA
AAAAGCAAGGTGCACTACCATGTCGCAGTCATCATCAACTACCTGGGCCACTGTATCTCCCTGGTGGCCC
TCCTGGTGGCCTTTGTCCTCTTTCTGCGGCTCAGGAGCATCCGGTGCCTGCGAAACATCATCCACTGGAA
CCTCATCTCCGCCTTCATCCTGCGCAACGCCACCTGGTTCGTGGTCCAGCTAACCATGAGCCCCGAGGTC
CACCAGAGCAACGTGGGCTGGTGCAGGTTGGTGACAGCCGCCTACAACTACTTCCATGTGACCAACTTCT
TCTGGATGTTCGGCGAGGGCTGCTACCTGCACACAGCCATCGTGCTCACCTACTCCACTGACCGGCTGCG
CAAATGGATGTTCATCTGCATTGGCTGGGGTGTGCCCTTCCCCATCATTGTGGCCTGGGCCATTGGGAAG
CTGTACTACGACAATGAGAAGTGCTGGTTTGGCAAAAGGCCTGGGGTGTACACCGACTACATCTACCAGG
GCCCCATGATCCTGGTCCTGCTGATCAATTTCATCTTCCTTTTCAACATCGTCCGCATCCTCATGACCAA
GCTCCGGGCATCCACCACGTCTGAGACCATTCAGTACAGGAAGGCTGTGAAAGCCACTCTGGTGCTGCTG
CCCCTCCTGGGCATCACCTACATGCTGTTCTTCGTCAATCCCGGGGAGGATGAGGTCTCCCGGGTCGTCT
TCATCTACTTCAACTCCTTCCTGGAATCCTTCCAGGGCTTCTTTGTGTCTGTGTTCTACTGTTTCCTCAA
TAGTGAGGTCCGTTCTGCCATCCGGAAGAGGTGGCACCGGTGGCAGGACAAGCACTCGATCCGTGCCCGA
GTGGCCCGTGCCATGTCCATCCCCACCTCCCCAACCCGTGTCAGCTTTCACAGCATCAAGCAGTCCACAG
CAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

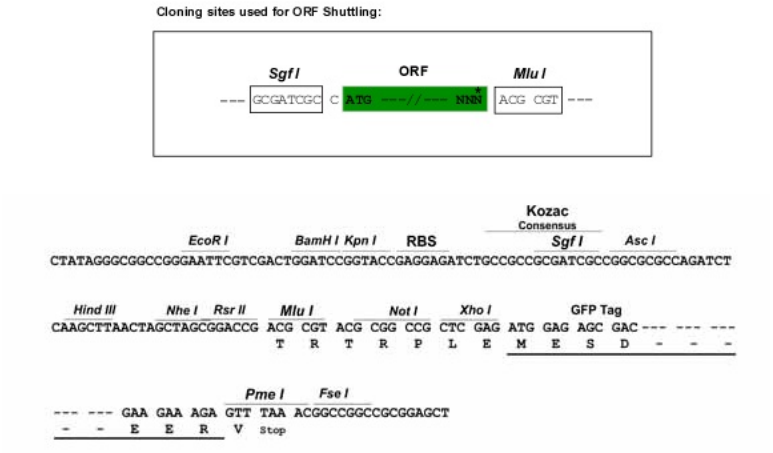
>RG226896 representing NM_001145147
Red=Cloning site Green=Tags(s)

MGGHPQLRLVKALLLLGLNPVSASLQDQHCESLSLASNISDNGYRECLANGSWAARVNYSECQEILNEEK
KSKVHYHVAVIINYLGHCISLVALLVAFVLFLRLRSIRCLRNIIHWNLISAFILRNATWFVVQLTMSPEV
HQSNVGWCRLVTAAYNYFHVTNFFWMFGEGCYLHTAIVLTYSTDRLRKWMFICIGWGVPFPIIVAWAIGK
LYYDNEKCWFGKRPGVYTDYIYQGPMILVLLINFIFLFNIVRILMTKLRASTTSETIQYRKAVKATLVLL
PLLGITYMLFFVNPGEDEVSRVVFIYFNSFLESFQGFFVSVFYCFLNSEVRSAIRKRWHRWQDKHSIRAR
VARAMSIPTSPTRVSFHSIKQSTAV

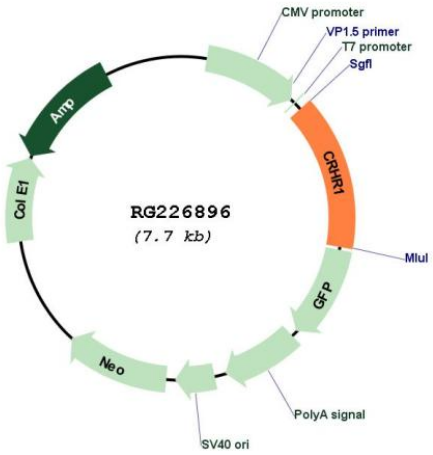
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001145147

ORF Size:	1125 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_001145147.2
RefSeq Size:	2474 bp
RefSeq ORF:	1128 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]