

## Product datasheet for **RG236843**

### CRF1 (CRHR1) (NM\_001303018) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CRF1 (CRHR1) (NM_001303018) 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:	>RG236843 representing NM_001303018. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCCCCGAGGTCCACCAGAGCAACGTGGGCTGGTGCAGGTTGGTGACAGCCGCTACAACACTTTC
CATGTGACCAACTTCTTCTGGATGTTTCGGCGAGGGCTGCTACCTGCACACAGCCATCGTGCTCACCTAC
TCCACTGACCGGCTGCGCAAATGGATGTTTCATCTGCATTGGCTGGGGTGTGCCCTTCCCCATCATTGTG
GCCTGGGCCATTGGGAAGCTGTACTACGACAATGAGAAGTGTGGTTTGGCAAAGGCCTGGGGTGTAC
ACCGACTACATCTACCAGGGCCCATGATCCTGGTCTGCTGATCAATTCATCTTCTTTCAACATC
GTCCGCATCCTCATGACCAAGCTCCGGGCATCCACCACGTCTGAGACCATTGAGTACAGGAAGGCTGTG
AAAGCCACTCTGGTGTCTGCTGCCCTCCTGGGCATCACCTACATGCTGTTCTTCGTAATCCCGGGGAG
GATGAGGTCTCCCGGCTCGTCTTCACTCAACTCCTTCCGGAATCCTTCCAGGGCTTCTTTGTG
TCTGTGTTCTACTGTTTCTCAATAGTGAGGTCGGTCTGCCATCCGGAAGAGGTGGCACCAGGTGGCAG
GACAAGCACTCGATCCGTGCCGAGTGGCCCGTGCATGTCCATCCCCACCTCCCCAACCCGTGTGTCAG
TTTCACAGCATCAAGCAGTCCACAGCAGTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG236843  
 Blue=ORF Red=Cloning site Green=Tag(s)

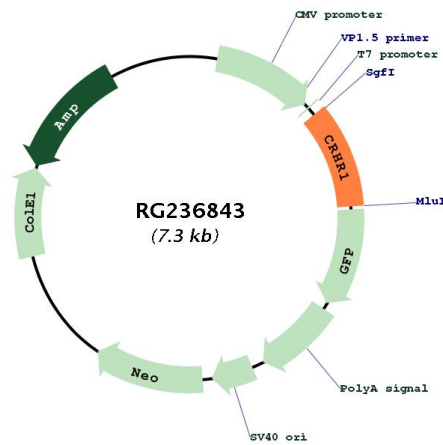
MSPEVHQSNVWCRLVTAAYNYFHVTNFFWMFEGEGCYLHTAIVLTYSTDRLRKWMFICIGWGVPPPIIV  
 AWAIGKLYYDNEKCWFGKRPGVYTDYIYQGMILVLLINFIFLNIIVRILMTKLRASITSETIQYRKAV  
 KATLVLLPLLGITMYLFFVNPGEDEVSRVVFYIFNSFLESFQGGFFVSFVYCFLNSEVRSAIRKRWHRWQ  
 DKHSIRARVARAMSIPTSPTRVSFHSIKQSTAV  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001303018

<b>ORF Size:</b>	720 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001303018.2</a>
<b>RefSeq Size:</b>	2388 bp
<b>RefSeq ORF:</b>	723 bp
<b>Locus ID:</b>	1394
<b>UniProt ID:</b>	<a href="#">P34998</a>
<b>Cytogenetics:</b>	17q21.31
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Long-term depression, Neuroactive ligand-receptor interaction
<b>MW:</b>	28.6 kDa
<b>Gene Summary:</b>	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]