

Product datasheet for **SC110860**

CRF1 (CRHR1) (NM_004382) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRF1 (CRHR1) (NM_004382) Human Untagged Clone
Tag:	Tag Free
Symbol:	CRF1
Synonyms:	CRF-R; CRF-R-1; CRF-R1; CRF1; CRFR-1; CRFR1; CRH-R-1; CRH-R1; CRHR; CRHR1L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110860 sequence for NM_004382 edited (data generated by NextGen Sequencing)

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ATGGGAGGGCACCCGAGCTCCGCTCGTCAAGGCCCTTCTCCTTCTGGGCTGAACCC
GTCTCTGCCTCCCTCCAGGACCAGCACTGCGAGAGCCTGTCCCTGGCCAGCAACATCTCA
GGACTGCAGTGCAACGCATCCGTGGACCTATTGGCACCTGCTGGCCCCGAGCCCTGCG
GGGAGCTAGTGGTTCGGCCCTGCCCTGCCTTTTTCTATGGTGTCCGCTACAATACCACA
AACAAATGGCTACCGGGAGTGCCTGGCCAATGGCAGCTGGGCCGCCCGCGTGAATTACTCC
GAGTGCCAGGAGATCCTCAATGAGGAGAAAAAAGCAAGGTGCACTACCATGTCGAGTC
ATCATCAACTACCTGGCCACTGTATCTCCCTGGTGGCCCTCCTGGTGGCCTTTGTCTCC
TTTCTGCGGCTCAGGAGCATCCGGTGCCTGCGAAACATCATCCACTGGAACCTCATCTCC
GCCTTCATCCTGCGCAACGCCACCTGGTTCGTGGTCCAGCTAACCATGAGCCCCGAGGTC
CACCAGAGCAACGTGGGCTGGTGCAGGTTGGTGACAGCCGCTACAACACTTCCATGTG
ACCAACTTCTTCTGGATGTTTCGGCGAGGGCTGCTACCTGCACACAGCCATCGTGCTACC
TACTCCACTGACCGGCTGCGCAAATGGATGTTTCTGCAATTGGCTGGGGTGTGCCCTTC
CCCATCATTGTGGCCTGGGCCATTGGGAAGCTGTACTACGACAATGAGAAGTGCTGGTTT
GGCAAAGGCCTGGGGTGTACACCGACTACATCTACCAGGGCCCCATGATCCTGGTCCGTG
CTGATCAATTTTCATCTTCTTTTCAACATCGTCCGCATCCTCATGACCAAGCTCCGGGCA
TCCACCACGTCTGAGACCATTGACAGGAAAGGCTGTGAAAGCCACTCTGGTGTGCTG
CCCCTCCTGGGCATCACCTACATGCTGTTCTTTCGTCANCCCCGGGGAGGATGAGGTTCC
CGGGTCGTCTTTCATCTACTTCAACTCCTTCTGGAATCCTTCCAGGGCTTCTTTGTGCT
GTGTTCTACTGTTTCTCAATAGTGAGGTCCGTTCTGCCATCCGGAAGAGGTGGCACCGG
TGGCAGGACAAGCACTCGATCCGTGCCGAGTGGCCCGTCCATGTCCATCCCCACCTCC
CCAACCCGTGTCAGCTTTCACAGCATCAAGCAGTCCACAGCAGTCTGA

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Clone variation with respect to NM_004382.4
999 t=>n



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004382 unedited</p> <pre> NGGTCAAATTTGTATACGACTCATATAGGCGGCNCGCGATTTCGGCAGGAGAGCCG GGCCGGGCGGGCCGGGCGGGGCGGGGCGGGGAAGCGCCGAGCCGGGCATCTCCTACCAGG CAGCGACCGAGGAGCCCGGCCGCCACCCCGTGCCGCCGAGCCCGCAGCCGCCCGCCGG TCCCTCTGGGATGTCCGTAGGACCCGGGCATTAGGACGGTAGCCGAGCGAGCCCGAGGA TGGGAGGGCACCCGAGCTCCGTCTCGTCAAGGCCCTTCTCCTTCTGGGGCTGAACCCCG TCTCTGCCTCCCTCCAGGACCAGCACTGCGAGAGCCTGTCCCTGGCCAGCAACATCTCAG GACTGCAGTGCAACGCATCCGTGGACCTCATTGGCACCTGCTGGCCCGCAGCCCTGCGG GGCAGCTAGTGGTTCGGCCCTGCCTGCCTTTTTCTATGGTGTCCGCTACAATACCACAA ACAATGGCTACCGGGAGTGCCTGGCCAATGGCAGCTGGGCCGCCCGCTGAATTACTCCG AGTGCCAGGAGATCCTCAATGAGGAGAAAAAAGCAAGGTGCACTACCATGTGCGAGTCA TCATCAACTACCTGGCCACTGTATCTCCCTGGTGGCCCTCTGGTGGCCTTTGCTCTCT TTCTGCGGCTCAGGAGCATCCGGTGCCTGCGAAACATCATCCACTGGAACCTCATCTCCG CCTTCATCTGCGCAACGCCACCTGGTTTCGTGGTCCAGCTAACCATGACCCCCGAGGT CCACCAGACCAAGTGGGCTGGTGGCCAGGGTTGGNTGACAGCCGCTACAACACTTNC ATGTGACCAACTCTNTTCTGGATGTTTCNGGNGAAGGGCTGCTACCTGCACACANNCATCG TGCTCACCTACTNCACTGACCGCTGCGAAA </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004382 unedited</p> <pre> CCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTGAAAAGAAA TTTTATTTATACCAGCCACCCGCCTCACAGCCGACACCCTCATCTTCTAGTGCCCCCAA AGCCCTGCCCTGGCTGTCCAGTCCCTCTGGACATGGGCAGGTGAGTGGGGCTGCGGCCG GTTCCACACCTGGAGTGTAAGCAGCACGTTGTCCAAGAGCCACTTGGGCAGGGGTCTTCT CCTGGCTTGCTTAGCTAGTGGTCTGCCCCAGAGGCCATCCAGGGCTACAAGCTCTGCC CAGAGGCTGGGACTGGGACACCCCTGGCTCTTGCTCACAGGCCACTTGGCCCTCCAGC CCCCATCTTTCACAAAAGAGGAAAAGGAGCAGGAGGTGACTGGTATGGGGTGGTTAAGT GAGGGGAAGCTGGCCTGGCCTGCAGGGTACTAAATGTTTAGGGTGAAGGCAGCAAGGCAG GGCATTGCTGGTGGCAGTGCCACAGTGCCAGTAAGGTTCTGGAGGCTGGGGGGTGACT CTAGTGTGTGGCCGAAGTCTGATGATGACACCTGACTTCTGTCTCCAGGGTTCCTGAG TGAGGGCCCTGGTTCCAGTGGTGTGCGAAGGCATCACCGANGTCCAGAGGCGTCATCG TGGTGAGTCAGAGGCTGTACAGATTGCCATGATGNCCAGGGCAGCAAATGGCCTCCC CACGGTTGCCGNAGGCAGCCCCANGNCCANNTGGGCTGNCCTTCTTGTGCTCTGGGAGA GACAGCCTTNGAGGACATGCGTGTGCTGTAAGTGTCCAGCGCCCCATTTTCATNCATTCC ATGTCCCTTCTCAGGAGGATTGGCAAGGAACCNAGCCCTGGCCCGNCCANCTGTAGGGA CTTCACTCTGAAGTCTCGCCGGTGCAGGAAAGGGGCCCCAGCTGNNATGCATTG TCTGGGGAGGGGCTGAACCTACAGCACTCCACGCGG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004382
Insert Size:	2740 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_004382.2](#), [NP_004373.2](#)

RefSeq Size: 2536 bp

RefSeq ORF: 1248 bp

Locus ID: 1394

UniProt ID: [P34998](#)

Cytogenetics: 17q21.31

Domains: 7tm_2, HormR

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]
Transcript Variant: This variant (1a, also known as CRHR1alpha), lacks an alternate in-frame exon in the central coding region, compared to variant 1b, resulting in an isoform (2) that is shorter than isoform 1.