

Product datasheet for **SC325932**

CRF1 (CRHR1) (NM_001145146) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRF1 (CRHR1) (NM_001145146) 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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001145146, the custom clone sequence may differ by one or more nucleotides

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ATGGGAGGGCACCCGAGCTCCGTCTCGTCAAGGCCCTTCTCCTTCTGGGGCTGAACCCCGTCTCTGCCT
CCCTCCAGGACCAGCACTGCGAGAGCCTGTCCCTGGCCAGCAACATCTCAGGACTGCAGTGAACGCATC
CGTGGACCTCATTGGCACCTGTGGCCCCGAGCCCTGCGGGGCAGCTAGTGGTTCGGCCCTGCCCTGCC
TTTTTCTATGGTGTCCGCTACAATACCACAAACAATGGCTACCGGGAGTGCCTGGCCAATGGCAGCTGGG
CCGCCCCGCTGAATTACTCCGAGTGCCAGGAGATCCTCAATGAGGAGAAAAAAGCAAGGTGCACTACCA
TGTCGCAGTCATCATCACTACCTGGGCCACTGTATCTCCCTGGTGGCCCTCCTGGTGGCCTTTGTCCCT
TTTCTGCGGCTCAGGCCAGGCTGCACCCATTGGGGTGACCAGGCAGATGGAGCCCTGGAGGTGGGGGCTC
CATGGAGTGGTGGCCATTTTCAGGTTTGAAGGAGCATCCGGTGCCTGCGAAACATCATCCACTGGAACCT
CATCTCCGCTTCATCCTGCGCAACGCCACCTGGTTCGTGGTCCAGCTAACCATGAGCCCGAGGTCCAC
CAGAGCAACGTGGGCTGGTGCAGGTTGGTGACAGCCGCCTACAATACTTCCATGTGACCAACTTCTTCT
GGATGTTCCGGCGAGGGCTGTACCTGCACACAGCCATCGTGCTCACCTACTCCACTGACCGGCTGCGCAA
ATGGATGTTCACTGCAATTGGCTGGGGTGTGCCCTTCCCATCATTGTGGCCTGGGCCATTGGGAAGCTG
TACTACGACAATGAGAAGTGTGGTTTGGCAAAAGGCCGGGGTGTACACCGACTACATCTACCAGGGCC
CCATGATCCTGGTCTGCTGATCAATTTTCATCTTCTTTTCAACATCGTCCGCATCCTCATGACCAAGCT
CGGGCATCCACCAGTCTGAGACCATTAGTACAGGAAGGCTGTGAAAGCCACTCTGGTGTGCTGCCCT
CTCCTGGGCATCACCTACATGCTGTTCTTCGTCATCCCGGGGAGGATGAGGTCTCCCGGTCGTTCTCA
TCTACTTCAACTCCTTCCGAAATCCTTCCAGGGCTTCTTTGTGTCTGTGTTCTACTGTTTCCCTCAATAG
TGAGGTCCGTTCTGCCATCCGGAAGAGGTGGCACCGGTGGCAGGACAAGCACTCGATCCGTGCCCGAGTG
GCCCGTGCATGTCCATCCCCACCTCCCCAACCCGTGTGACGTTTACAGCATCAAGCAGTCCACAGCAG
TCTGA
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Restriction Sites: Please inquire



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ACCN:	NM_001145146
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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_001145146.1 , NP_001138618.1
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 GenelD: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 (1b, also known as CRH-R1beta), represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.