

Product datasheet for SC325884

CRF1 (CRHR1) (NM_001145148) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRF1 (CRHR1) (NM_001145148) 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:	>SC325884 representing NM_001145148. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
 ATGGGAGGGCACCAGCTCCGTCTCGTCAAGGCCCTTCTCCTTCTGGGGCTGAACCCCGTCTCTGCC
 TCCCTCCAGGACCAGCACTGCGAGAGCCTGTCCCTGGCCAGCAACATCTCAGGACTGCAGTGCAACGCA
 TCCGTGGACCTCATTGGCACCTGCTGGCCCCGAGCCCTGCGGGGAGCTAGTGGTTCGGCCCTGCCCT
 GCCTTTTTCTATGGTGTCCGCTACAATACCACAAACAATGGCTACCGGGAGTGCCTGGCCAATGGCAGC
 TGGGCCGCCCGCTGAATTACTCCGAGTGCCAGGAGATCCTCAATGAGGAGAAAAAAGCAAGGTGCAC
 TACCATGTCGAGTCATCATCACTACCTGGGCCACTGTATCTCCCTGGTGGCCCTCCTGGTGGCCTTT
 GTCCTCTTTCTGCGGCTCAGGAGCATCCGGTGCCTGCGAAACATCATCCACTGGAACCTCATCTCCGCC
 TTCATCTGCGCAACGCCACCTGGTTCTGGTCCAGCTAACCATGAGCCCCGAGGTCCACCAGAGCAAC
 GTGGGCTGGTGCAAGTTGGTGACAGCCGCTACAACACTTCCATGTGACCAACTTCTTCTGGATGTTT
 GGCGAGGGCTGTACCTGCACACAGCCATCGTGCTCACCTACTCCACTGACCGGCTGCGCAAATGGATG
 TTCATCTGCATTGGCTGGGGTGTGCCCTTCCCCATCATTGTGGCTGGGCCATTGGGAAGCTGTACTAC
 GACAATGAGAAGTGCTGGTTTGGCAAAGGCCTGGGGTGTACCCGACTACATCTACCAGGGCCCCATG
 ATCCTGGTCTGCTGATCAATTTTCATCTTCTTTCAACATCGTCCGATCCTCATGACCAAGCTCCGG
 GCATCCACCAGCTCTGAGACCATTCAGTACAGGAAGGCTGTGAAAGCCACTCTGGTGTCTGCTGCCCTC
 CTGGGCATCACCTACATGCTGTTCTTCGTCATCCCGGGGAGGATGAGGTCTCCCGGTCTGCTTTCATC
 TACTTCAACTCCTTCTGGAATCCTTCCAGGTCCGTTCTGCCATCCGGAAGAGGTGGCACCGGTGTCAG
 GACAAGCACTCGATCCGTGCCGAGTGGCCGTGCCATGTCCATCCCCACCTCCCCAACCCGTGTGAGC
 TTTCACAGCATCAAGCAGTCCACAGCAGT**CTGA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites: SgfI-MluI


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ACCN:	NM_001145148
Insert Size:	1206 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).
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:	<u>NM_001145148.1</u>
RefSeq Size:	2552 bp
RefSeq ORF:	1206 bp
Locus ID:	1394
UniProt ID:	<u>P34998</u>
Cytogenetics:	17q21.31
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Long-term depression, Neuroactive ligand-receptor interaction
MW:	46 kDa

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 (1d, also known as CRH-R1d), lacks an alternate in-frame exon in both the central and 3' coding regions, compared to variant. The encoded isoform (4) is shorter than 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.