

## Product datasheet for SC119702

### Corticotropin Releasing Factor (CRH) (NM\_000756) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Corticotropin Releasing Factor (CRH) (NM_000756) Human Untagged Clone
Tag:	Tag Free
Symbol:	Corticotropin Releasing Factor
Synonyms:	CRF; CRH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119702 sequence for NM_000756 edited (data generated by NextGen Sequencing) ATGCGGCTGCCGCTGCTTGTGTCCGCGGGAGTCCTGCTGGTGGCTCTCCTGCCCTGCCCC CCATGCAGGGCGCTCCTGAGCCGCGGGCCGGTCCCGGGAGCTCGGCAGGCGCCGAGCAC CCTCAGCCCTTGATTTCTCCAGCCGCGCCGAGTCCGAGCAGCCCCAGCAGCCGAG GCTCGGCCGGTCTGCTCCGCATGGGAGAGGAGTACTTCTCCGCTGGGGAACCTCAAC AAGAGCCCGCCGCTCCCTTTCCGCCGCCTCCTCGTCTCGCCGGCGGCAGCGGCAGC CGCCCTTCGCCGAACAGGCGACCGCAACTTTTTCCGCGTGTGCTGCAGCAGCTGCTG CTGCCTCGGCGCTCGCTCGACAGCCCCGCGCTCTCGCGAGCGCGGCTAGGAATGCC CTCGGCGGCCACCAGGAGCACCGGAGAGAGAAAGCGGTCCGAGGAGCCTCCCATCTCC CTGGATCTCACCTTCCACCTCCTCCGGGAAGTCTTGAAATGGCCAGGGCCGAGCAGTTA GCACAGCAAGCTCACAGCAACAGGAAACTCATGGAGATTATTGGGAAATAA  Clone variation with respect to NM_000756.2 288 a=>c



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_000756 unedited AAGTTCACATTTGTATACGACTCACTATAGGGCGGCCGCGAATTCGCACCAGNAGAGACT GAGGGGAAAGAGAGGAGAGAAAGAAAAANAAGTGGGAACAGTAAAGAGAAAGGAAGACAA CCTCCAGAGAAAGCCCCGGAGACGTCTCTGTCAGAGAGGGCGGAGCAGCCCGGCTCACC TGCGAAGCGCCTGGGAAGCGAGTGCCCCAACATGCGGCTGCCGTGCTTGTGTCCGCGG GAGTCTTGCTGGTGGCTCTCTGCCCTGCCCGCCATGCAGGGCGCTCCTGAGCCGCGGGC CGGTCCCAGGAGCTCGGCAGGCGCGCAGCACCCCTCAGCCCTTGGATTTCTCCAGCCGC CGCCGCAGTCCGAGCAGCCCAGCAGCCGAGGCTCGGCCGGTCCCTGCTCCGCATGGGAG AGGAGTACTTCTCCGCCTGGGGAACCTCAACAAGAGCCCGGCCGCTCCCTTTCCGCCC CCTCCTCGCTCCTCGCCGGCGGAGCGGCAGCCGCTTCCGCGGAACAGGCGACCGCCA ACTTTTTCCGCGTGTGCTGCAGCAGCTGCTGCTCCTCGGCGCTCGCTCGACAGCCCCG CGGCTCTCGCGGAGCGCGGCGCTAGGAATGCCCTCGGCGGCCACAGGAGGCACCGGAGA GAGAAAGCGGTCCGAGGAGCCTCCCATCTCCCTGGATCTCACCTCCACCTCCTCCGGG AAGTCTTGNAATGGCCAGNGCCGAGCAGTTAGCACAGNCAGCTCACAGCAACAGGAAAC TCATGGAGATTATTGGGAAATAAAACGGTGCGTTTTGGCCAAAAGAATCTGCATTTAG CACAAAAAATAAAAAAATACTGACTCTAGATTTGCGCCCGCGGTCTAGCTGTTCC TGGACAGATCCCGGTGGGATCCCTGTGACCCCTCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000756
<b>Insert Size:</b>	1000 bp
<b>OTI Disclaimer:</b>	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).
<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>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_000756.1</a></u> , <u><a href="#">NP_000747.1</a></u>
<b>RefSeq Size:</b>	1279 bp
<b>RefSeq ORF:</b>	591 bp
<b>Locus ID:</b>	1392
<b>UniProt ID:</b>	<u><a href="#">P06850</a></u>
<b>Cytogenetics:</b>	8q13.1
<b>Domains:</b>	CRF
<b>Protein Families:</b>	Druggable Genome, Secreted Protein

**Protein Pathways:** Long-term depression

**Gene Summary:** This gene encodes a member of the corticotropin-releasing factor family. The encoded preproprotein is proteolytically processed to generate the mature neuropeptide hormone. In response to stress, this hormone is secreted by the paraventricular nucleus (PVN) of the hypothalamus, binds to corticotropin releasing hormone receptors and stimulates the release of adrenocorticotrophic hormone from the pituitary gland. Marked reduction in this protein has been observed in association with Alzheimer's disease. Autosomal recessive hypothalamic corticotropin deficiency has multiple and potentially fatal metabolic consequences including hypoglycemia and hepatitis. In addition to production in the hypothalamus, this protein is also synthesized in peripheral tissues, such as T lymphocytes, and is highly expressed in the placenta. In the placenta it is a marker that determines the length of gestation and the timing of parturition and delivery. A rapid increase in circulating levels of the hormone occurs at the onset of parturition, suggesting that, in addition to its metabolic functions, this protein may act as a trigger for parturition. [provided by RefSeq, Nov 2015]