

Product datasheet for RC205258

CRHBP (NM_001882) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRHBP (NM_001882) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CRHBP
Synonyms:	CRF-BP; CRFBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205258 representing NM_001882 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGTGCGCCAACCTCAAACCTTCAGTGTCACTTCATTCTCATCTTCTGACGGCTCTAAGAGGGGAAAGCCGGTACCTAGAGCTGAGGGAAGCGCGGACTACGATCCTTTCTGCTCTTCAGCGCCAACCTGAAGCGGGA GCTGGCTGGGGAGCAGCCGTACCGCCGCGCTCTGCGGTGCCTGGACATGCTGAGCCTCCAGGGCCAGTTCACCTTCACGCGCCACCGCCGCGAGCTGCACTGCGCAGCCTTCTTCATCAGCGAGCCCGAGGAGTTCATTA CCATCCACTACGACCAGGTCTCCATCGACTGTGAGGGCGGCGACTTCTGAAGGTATTTGATGGTTGGAT TCTCAAGGGGAGAAGTTCCCCAGTTCAGGATCATCCTCTCCCTCAGCTGAGCGGTACATAGATTTCTGTGAGAGTGGTCTTAGCAGGAGGAGCATCAGATCTTCCAGAATGTGGCCATGATCTTCTCCGAGTCC ATGAACCAGGAAATGGATTACATTAACCATAAAGACAGACCCCAACCTCTTTCCTTGCAATGTCATTTTCAGACTCCAAATGGAAGTTTACCCTGGTAGTTCCACACCAGCATCGAAACTGCAGCTTCTCCATAATT ATCCTGTGGTGATCAAATATCTGATCTTACCCTGGGACACGTAATGGTCTTCAGTTAAAGAAATCCTCAGCAGTTGCGAGGGAATAGGAGACTTGTGGAGCTGCTGGGAGGAAGTGGATTGGACCCTTCCAAGAT GACGCCTTTAGCTGATCTCTGCTACCCCTTTCATGGCCCGGCCAGATGAAAGTTGGCTGTGACAACACT GTGGTGCGCATGGTCTCCAGTGGAAAACAGTAAATCGTGTGACTTTTGAGTATCGTCAGCTGGAGCCGT ACGAGCTGGAAAACCAAATGAAAACAGTATCGGGGAATTCGTTTGTCTGGTCTT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205258 representing NM_001882
Red=Cloning site Green=Tags(s)

MSPNFKLQCHFILIFLTALRGESRYLELREAADYDPFLLFSANLKRELAGEQPYRRALRCLDMLSLQGQF
 TFTADRPQLHCAAFFISEPEEFITIHVDQVSIDCQGGDFLKVFDGWILKGEKFPSSQDHPLPSAERYIDF
 CESGLSRRSIRSSQNVAMIFFRVHEPGNGFTLTIKTDPNLFPCNVISQTPNGKFTLVVPHQHRNCSFSII
 YPVVIKISDLTLGHVNLQLKSSAGCEGIGDFVELLGGTGLDPSKMTPLADLCYPFHGPAQMKVGCNDT
 VVRMVSSGKHVNRVTFEYRQLEPYELENPNGNSIGEFCLSGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2928_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001882

ORF Size: 966 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001882.4](#)

RefSeq Size: 1854 bp

RefSeq ORF: 969 bp

Locus ID: 1393

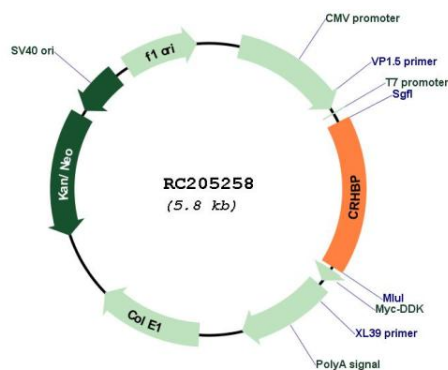
UniProt ID: [P24387](#)

Cytogenetics: 5q13.3

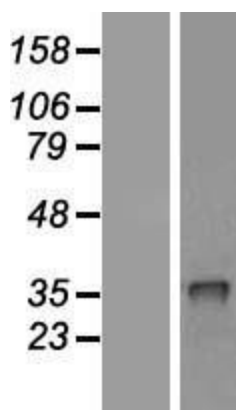
MW: 36 kDa

Gene Summary: Corticotropin-releasing hormone is a potent stimulator of synthesis and secretion of preopiomelanocortin-derived peptides. Although CRH concentrations in the human peripheral circulation are normally low, they increase throughout pregnancy and fall rapidly after parturition. Maternal plasma CRH probably originates from the placenta. Human plasma contains a CRH-binding protein which inactivates CRH and which may prevent inappropriate pituitary-adrenal stimulation in pregnancy. [provided by RefSeq, Jul 2008]

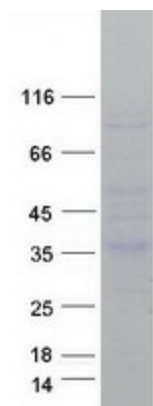
Product images:



Circular map for RC205258



Western blot validation of overexpression lysate (Cat# [LY419679]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205258 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CRHBP protein (Cat# [TP305258]). The protein was produced from HEK293T cells transfected with CRHBP cDNA clone (Cat# RC205258) using MegaTran 2.0 (Cat# [TT210002]).