

Product datasheet for RC209289

CREB5 (NM_001011666) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CREB5 (NM_001011666) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CREB5
Synonyms:	CRE-BPA; CREB-5; CREBPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209289 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGTTCTGCACCTCAGGAGGGAATTCAGCCTCAGTGATGTCCATGAGGCCTGTCCAGGCTCTCTATCTTCTCTGCTACATCTCCACAACAGACAGAGACAGCCCATGCCAGCCTCCATGCCTGGGACCTGCCAACCC TACAATGCCAGGATCTTCCGCCGCTTGATGCCAATGGAGCGACAATGTCAGTGAATCCAGCATCATG GGGATGCAAGGTCAAATCTCAGCAACCCCTGTGCTTCTCCCAGGTCCAGCCAATGCATTCAGAAGCCA AAATGAGGTTGAAGGCTGCATTGACTCACCACCCTGCTGCCATGTCAAATGGGAACATGAACACCATGGG ACACATGATGGAGATGATGGGCTCCCGGAGGACAGACGCCACACCATCACATGCACTCGACCCGCAT CAGCACCAGACACTGCCACCCATCACCTTACCCACACCAGCACCAGCACCAGCACACCATCCTCACC CTCAACCCCATCACAGCAGAACCATCCACATCACCACTCCCATCCACCTTCCACCTTATGCACACCCAGCACA TCACCAGACCTCGCCACATCCGCCCTGCACACCGGAACCAAGCACAGGTTTACCAGCAACACAACAG ATGCAGCAACCCAGACAATACAGCCACCCAGCCACAGGGGGCGCCGGCGAAGGGTGGTAGACGAGG ATCCGGACGAGAGGCGCGGAAATTTCTGGAACGGAACCGGGCAGCTGCCACCCGCTGCAGACAGAAGAG GAAGGTCTGGGTGATGTCATTGAAAAGAAAGCAGAAGAACTACCCAGACAAACATGCAGCTTCAGAAT GAAGTGTCTATGTTGAAAATGAGGTGGCCAGCTGAAACAGTTGTTGTTAACACATAAAGACTGCCCAA TAACAGCCATGCAGAAAGAAATCACAAGGATATCTAAGTCCAGAGAGTAGCCCTCCTGCTAGTCTGTCCC AGCTTGCTCCAGCAACAGTATCCAGCATAATACCATCACTACTTCTCATCGGTGAGGAGGTGGTA GGAAGCTCACCCCTCAGCCAGCTCACCCTCACAGAACAGACCTGAATCCGATTCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC209289 protein sequence
Red=Cloning site Green=Tags(s)

MFCTSGGNSASVMSMRPVPGSLSSLLHLHNRQRPMPASMPGTLNPNTMPGSSAVLMPMERQMSVNSSIM
 GMQGPNL SNPCASPOVQPMHSEAKMRLKAAL THHPAAMSNGNMNTMGHMEMMGSRDQTPHHMHSHPH
 QHQTLPPHPYPHQHPAHHPHPQPHHQNHHPHHSHSLHAHPAHHQTSHPHPPLHTGNQAQVSPATQQ
 MQPTQTIQPPQPTGRRRRRVVDEDPDERRRKFLERNRAAATRCRQKRKVVWMSLEKKAEELTQTNMQLQN
 EVSMLKNEVAQLKQLLLTHKDCPITAMQKESQGYLSPESPASPVPACSQQQVIQHNTITSSSVSEVV
 GSSTLSQLTTHRTDLNPIL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6345_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001011666

ORF Size: 1107 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.

RefSeq: [NM_001011666.3](#)

RefSeq Size: 7772 bp

RefSeq ORF: 1110 bp

Locus ID: 9586

UniProt ID: [Q02930](#)

Cytogenetics: 7p15.1

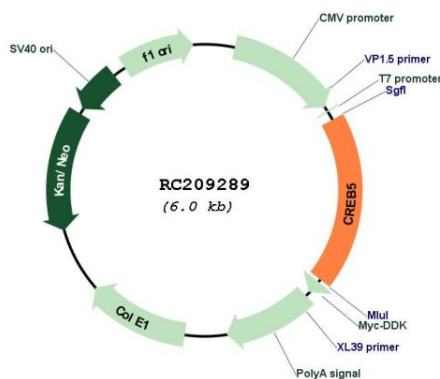
Protein Families: Transcription Factors

Protein Pathways: Huntington's disease, Prostate cancer

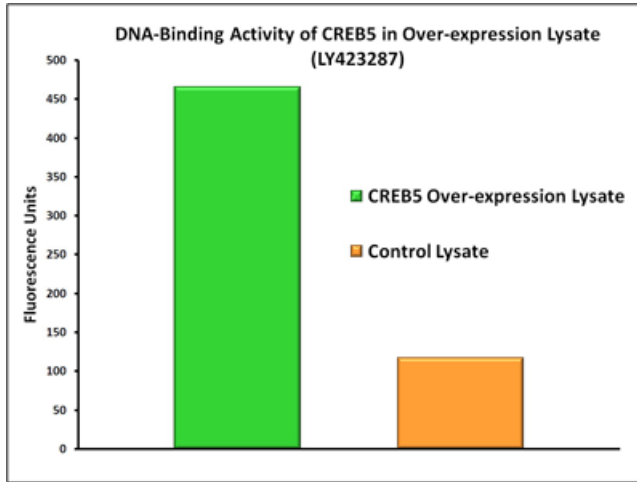
MW: 41.2 kDa

Gene Summary: The product of this gene belongs to the CRE (cAMP response element)-binding protein family. Members of this family contain zinc-finger and bZIP DNA-binding domains. The encoded protein specifically binds to CRE as a homodimer or a heterodimer with c-Jun or CRE-BP1, and functions as a CRE-dependent trans-activator. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

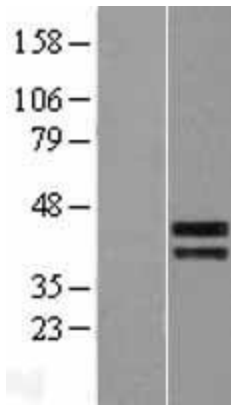
Product images:



Circular map for RC209289



DNA-binding activity of CREB5 was measured in OriGene over-expression lysate LY423287 and a control lysate. Three microliters of each lysate was tested with a transcription factor binding assay utilizing CREB5-specific DNA sequences. The high level of activity observed in the over-expression lysate compared to the control lysate demonstrates that the expressed CREB5 is biologically active in the lysate. Overexpression cell lysates are prepared from HEK293T cells transfected with RC209289 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Western blot validation of overexpression lysate (Cat# [LY423287]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209289 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).