

Product datasheet for **MR214763**

Crebrf (NM_029870) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crebrf (NM_029870) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Crebrf
Synonyms:	A930001N09Rik; LRF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR214763 representing NM_029870
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCTCAGCCACGCTAAGCGGAATGGACCCGCCTTTGGGGATGCCTTTCGAAGCCACACCTTTTCAG
AACAGACTCTGATGAGCACAGATCTCTTAGCCAACAGTTCTGATCCAGATTTTCATGTATGAGCTGGATAG
AGAGATGAATTATCAACAGAATCTAGAGACAACCTTCTTTCTTTGGAAGACTGCAAAGACATTGAAAAT
CTGGAGACTTTCACAGATGTCCTGGACAATGAGGATGCTTAACTTCAAACCTGGGAACAGTGGGATACAT
ACTGTGAAGACTTAACTAAGTACACGAAGCTCACCAGCTGTGACATTTGGGGGACAAAAGAGGTGGATTA
CCTGGGTCTTGATGACTTTCTAGCCCTTACCAAGATGAAGAGGTCATCAGTAAACTCCAACACTGGCC
CAGCTCAATAGTGAGGACTCTCAGTCTGTTCCGATTCCCTTTATTATCCTGACTCACTCTTCAGTGTCA
AACAAAATCCCTTGCCCCCTCCTCTTTTCTAGTAAAAAGATCAGAAAAGAGCAGCTGCCCTGTGTG
TTCTTCAAAGACTTTCAGGCTGAGGTCCCATCATCAGACTGTGTCCAAAAGCAAGCAAACCTACTTCA
AGCACACAGATCATGGTGAAGACCAACATGTATCATAATGAAAAGGTGAATTTTCATGTTGAATGTAAAG
ACTATGTAAAAAAGCAAAGTCAAGATCAACCCTGTGCAACAGGGCCGCCCCTTGCTGAGCCAGGTCCA
CATAGATGCAGCAAAGGAGAACACTGCTACTGTGGAGCTGTGGCAAAGAGACAGGAGAGAAGGGGGGTG
GAGCCGCATCAGGGTCGGGGCACTCCTGCTTTGCCTTTCAAAGAAACCCAGGAGCTATTACTTAGTCCTC
TGACGCAGGATAGTCTGGGTTGGTTGCCACAGCAGAGAGTGGCAGCCTTTTCCAGCAGCTTCTGTTTC
AGATTCATCCCAGAAAAAAGAAGAGCACAAATTATCTCTTTTGTCTCTGACAACATGAGAGAACAGCCA
ACCAAATACAGTCTGAAGATGATGAGGATGATGAAGATGAGTTTGTATGATGAGGACCATGATGAAGGT
TTGGCAGCGAGCATGAGCTTTCTGAAAATGAAGAGGAGGAAGAAGAGGAAGAGGATTATGAGGATGACAG
AGATGATGATATCAGCGACAGTTCTCTGAACCAGGTTATGAAAATGACTCTGTAGAGGACTTGAAGGAG
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CATCACAGCAAGAGAGGATTCTGAGGCCTTCTGAGTGAATCGAGATACCTTGCCAAGTAATATGTACCA
GAAAAATGGCTTACATCATGGGAAATACGCAGTGAAGAAATCACGGAGAAGTGTGGAAGACCTTACT
CCAAACCTAAAAAACTACTTCAAGATTGGTAATGAGCTGCGCAAGCTGAATAAGGTGATCAGTGACCTGA
CTCCAGTTAGTGAGCTTCCCTAACAGCAAGGCCAAGGTCAAGGAAAGAAAAAATAAGCTGGCATCCAG
AGCTTGTAGGCTAAAGAAGAAAGCCAGTATGAAGCTAATAAAGTGAAGTTGTGGGGCTCAACACTGAA
TATGACAATTTATGTTTGTAACTCACTCCATCAAGCAAGACATTGTAACCGAGTTCAGAATCCAAGAG
AAGAGAGAGAACCAGCATGGGGCAGAAGCTTGAATCCTCATTAAAGATACACTGGGTCTCCAGTCGC
TGGGCAAACCTCAGAATTTGTTAACCAAGTGTAGGGAAGACTGTGAAGGCAACCCCACTGGAGGCCTT
GTAGGACTAAGGATACCAGCATCAAAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR214763 representing NM_029870
 Red=Cloning site Green=Tags(s)

MPQPSVSGMDPPFGDAFRSHTFSEQTLMSTDLLANSSDPDFMYELDREMNYQQNPRDNFLSLEDCKDIEN
 LETFTDVLDNEDALTSNWEQWDTYCEDLTKYTKLTSCDIWGTKEVDYGLGLDDFSSPYQDEEVI SKTPTLA
 QLNSEDSQSVDLSLYPDSLFSVKQNPLPSSFPSSKITTNRAAAPVCSSKTLQAEVPSDDCVQKASKPTS
 STQIMVKTNMYHNEKVNHFHVECKDYVKKAKVKINPVQQRPLL SQVHIDAAKENTCYCGAVAKRQERRGV
 EPHQGRGTPALPFKETQELLLSPLTQDSPGLVATAESGSL SASTSVSDSSQKKEEHNSLVSDNMREQP
 TKYSPEDDEDEDFDDEDHDEGFGSEHELSENEEEEEEEEDYEDDRDDD ISDTFSEPGYENDSVEDLKE
 MTSISSRKRGRRYFWEYSEQLTPSQQERILRPSEWNRDTPSNMYQKNGLHHGKYAVKSRRTDVEDLT
 PNPKLLQIGNELRKLNKVISDLTPVSELPLTARPRSRKEKNKLASRACRLKKAQYANKVKLWGLNTE
 YDNLLFVINSIKQDIVNRVQNPREEPEPSMGQKLEILIKDTLGLPVAGQTSEFVNQVLGKTAEGNPTGGL
 VGLRIPASKV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9091_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029870

ORF Size: 1920 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_029870.2](#), [NP_084146.1](#)

RefSeq Size: 7455 bp

RefSeq ORF: 1923 bp

Locus ID: 77128

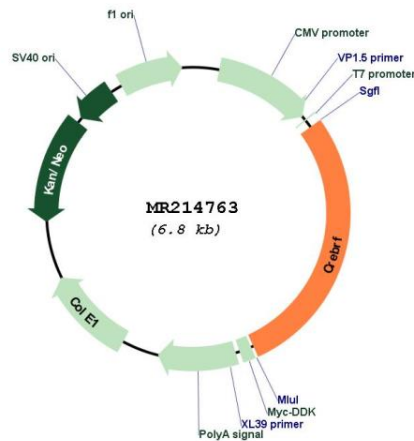
UniProt ID: [Q8CDG5](#)

Cytogenetics: 17 A3.3

MW: 72.6 kDa

Gene Summary: Acts as a negative regulator of the endoplasmic reticulum stress response or unfolded protein response (UPR). Represses the transcriptional activity of CREB3 during the UPR. Recruits CREB3 into nuclear foci (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214763