

Product datasheet for **RC224242**

CHREBP (MLXIPL) (NM_032954) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHREBP (MLXIPL) (NM_032954) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHREBP
Synonyms:	bHLHd14; CHREBP; MIO; MLX; MONDOB; WBSCR14; WS-bHLH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC224242 representing NM_032954
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGCGCGCTGGCAGGTCTGGCCGGGGCTTGCAGGTCCCGCGGGTTCGCGCCAGCCAGACTCGG
 ACTCGGACACAGACTCGGAGGACCCGAGTCTCCGGCGCAGCGCGGGCGGCTTGCTCCGCTCGCAGGTCAT
 CCACAGCGGTCACTTCATGGTGTGTCGCGCCGACAGCGACTCGTGCCTCCGCGCGCGGACCAGGAGGGG
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 TCTGGACACAGCCGTCTGCAGGCTCGGAACAGCTGCCCTGGCCCTTGACTCCAGCGCTTCTGTAGTT
 CTGATTTCTCTTCTGAAGACCCCAAGCCCGGCTCCACCCCTCCTGTACCCCACTCTGTGCA
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ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224242 representing NM_032954
Red=Cloning site Green=Tags(s)

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MAGALAGLAAGLQVPRVAPSPDSDSDTSEDPSSLRRSAGGLLRSQVIHSGHFMVSSPHSDSLPRRRDQEG
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MIQPDLTPLQPSLDDFMDISDFFTNSRLPQPMPSNFPEPPSFSPVVDSLFSSTLGPVPPASSAMTHL
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PTALLQEEPLFSRPFPTVPPAPGVSPLPAPAAFPPTPQSVSPAPTFFPIELLPLGYSEPAFGPCFSM
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VPEFPCTFLPPTPAPTPRPPPGPATLAPSRPLLVPKAERLSPAPSGSERLSGDLSSMPGPGTLSVRV
SPPQPIILSRGRPDSNKNRRITHISAEQRRFNKLGFDLHGLVSTLSAQPSLKERAGLQEEAQQLRDEI
EELNAAINLCQQQLPATGVPIHQRFDMRDMFDDYVTRTRLHNWKFVFSILIRPLFESFNGMVSTASV
HTLRQTSLAWLDQYCSLPALRPTVLNSLRQLGTSTSILTDPGRIPQATRAVTEGLGKPL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_032954

ORF Size: 2493 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_032954.3](#)

RefSeq Size: 3225 bp

RefSeq ORF: 2496 bp

Locus ID: 51085

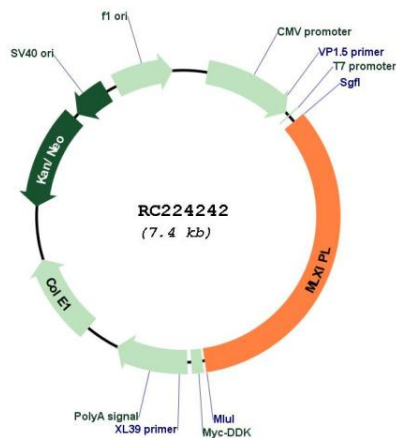
UniProt ID: [Q9NP71](#)

Cytogenetics: 7q11.23

MW: 90.5 kDa

Gene Summary: This gene encodes a basic helix-loop-helix leucine zipper transcription factor of the Myc/Max/Mad superfamily. This protein forms a heterodimeric complex and binds and activates, in a glucose-dependent manner, carbohydrate response element (ChoRE) motifs in the promoters of triglyceride synthesis genes. The gene is deleted in Williams-Beuren syndrome, a multisystem developmental disorder caused by the deletion of contiguous genes at chromosome 7q11.23. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RC224242