

Product datasheet for **RC212773**

CHREBP (MLXIPL) (NM_032952) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHREBP (MLXIPL) (NM_032952) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC212773 representing NM_032952
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGCGCGTGGCAGGTCTGGCCGGGGCTTGCAGGTCCCGCGGGTTCGCGCCAGCCAGACTCGG
 ACTCGGACACAGACTCGGAGGACCCGAGTCTCCGGCGCAGCGCGGGCGGCTTGCTCCGCTCGCAGGTCAT
 CCACAGCGGTCACTTCATGGTGTGTCGCGCCGACAGGACTCGTGCCTCCGCGCGCGGACCAGGAGGGG
 TCCGTGGGGCCCTCCGACTTCGGGCCGCGCAGTATCGACCCACACTCACACGCCTCTTCGAGTGTGTA
 GCCTGGCTACAGTGGCAAGCTGGTGTCTCCAAAGTGAAGAATTTCAAAGGCCTCAAGTGTCTGACG
 AGACAAGATCCGCTGAACAACGCCATCTGAGGGCCTGGTATATCCAGTATGTGAAGCGGAGGAAGAGC
 CCCGTGTGTGGCTTCGTGACCCCTGCAGGGCCTGAGGCTGATGCGCACCGGAAGCCGGAGGCCGTGG
 TCCTGGAGGGAACTACTGGAAGCGGCGCATCGAGGTGGTATGCGGGAATACCACAAGTGGCGCATCTA
 CTACAAGAAGCGCTCCGTAAGCCAGCAGGGAAGATGACCTCCTGGCCCTAAGCAGGCGGAAGGCAGG
 TGGCCCGCGCGGAGCAATGGTGCAAACAGCTTCTCCAGTGTGGTCCCGTGTCTGGGGGACCCAG
 AGGAGGAGCCGGTGGGCGGCAGCTCCTGGACCTCAATTGCTTTTTGTCCGACATCTCAGACACTCTCT
 CACCATGACTCAGTCCGGCCCTTCGCCCCGACGCTGCCGCTGAGGATGCCTACGTCCGCAATGCTGAC
 ATGATCCAGCCGACCTGACGCCACTGCAGCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTA
 CCAACTCCCGCTCCACAGCCGCCATGCCTTCAAATTCAGAGCCCCCAGCTTACGCCCCGTGGT
 TGACTCCCTCTCAGCAGTGGGACCTGGGCCCAGAGTGCCCCCGGCTTCTCGCCATGACCCACCTC
 TCTGGACACAGCCGTCTGCAGGCTCGGAACAGCTGCCCTGGCCCTTGACTCCAGCGCTTCTGAGTT
 CTGATTTCTCTTCTGAAGACCCCAAGCCCGGCTCCACCCCTCCTGTACCCCTCCTTCCATGGCACA
 TTACCTCCCCCTGCCAAGGTGCCAGGCTGGAGCCTGCCCCCACCTCCCTTCCCTCCATGGCACA
 CCCACTGCTTTGCTGCAGGAAGAGCCTCTCTTCTCTCCAGTTTCCCTTCCCCACCGTCCCTCCTGCC
 CAGGAGTGTCTCCGCTGCCTGCTCCTGCAGCCTTCCACCCACCCACAGTCTGTCCCAGCCAGCCCC
 CACCCCTTCCCATAGAGCTTCTACCCTTGGGGTATTCGGAGCCTGCCTTTGGGCTTGTCTTCCATG
 CCCAGAGGCAAGCCCCCGCCCATCCCTAGGGGACAGAAAGCCAGCCCCCTACCTTAGCCCTGCCA
 CTGCCAGTCCCCCACCCTGCGGGGAGCAACAACCCCTGCCTCACACAGCTGCTCACAGCAGTAAGCC
 GGAGCAAGCCCTGGAGCCACCCTTGTATCCAGCACCTCCTCCGGTCCCAGGGTCCCCGAGGAGACA
 GTCCTGAATTCCTGACATTCCTTCCCCGACCCCGGCCCTACACCGCCCCGGCCACCTCCAGGCC
 CGGCCACATTGGCCCTTCCAGGCCCTGCTTGTCCCAAGCGGAGCGGCTCTACCCCCAGCGCCAG
 CGGCAGTGAACGGCGGCTGTGAGGGGACCTCAGTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTC
 TCTCCCCGCAACCCATCCTCAGCCGGGGCGTCCAGACAGCAACAAGACCGAGAACCAGCGTATCACAC
 ACATCTCCGCGGAGCAGAAGCGGCGCTTCAACATCAAGCTGGGGTTTGACACCCTTATGGGCTCGTGAG
 CACTCAGTCCCAGCCAGCCTCAAGGAGCGTGCAGGCTTGCAGGAGGAGGCCAGCAGCTGCGGGAT
 GAGATTGAGGAGCTCAATGCCGCCATTAACCTGTGCCAGCAGCAGTGCCTGCCACAGGGGTACCCATCA
 CACACCAGCGTTTGGACCAGATGCGAGACATGTTTGATGACTACGTCGGAACCCGTACGCTGCACAACTG
 GAAGTTCTGGGTGTTGACATCCTCATCCGGCCTGTTTGGAGTCTTCAACGGGATGGTGTCCACGGCA
 AGTGTGCACACCCTCCGCCAGACCTCACTGGCCTGGCTGGACCAGTACTGCTCTCTGCCCGCTCCTCCGGC
 CAACTGTCTGAACTCCCTACGCCAGTGGGCACATCTACCAGTATCCTGACCGACCCGGGCCGATCCC
 TGAGCAAGCCACACGGGCAGTCACAGAGGGCACCTTGGCAAACCTTTA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC212773 representing NM_032952
 Red=Cloning site Green=Tags(s)

MAGALAGLAAGLQVPRVAPSPDSDSDTDEPSLRRSAGLLRSQVIHSGHFMVSSPHSDSLPRRRDQEG
 SVGPSDFGPRSIDPTLTRLFECLSLAYSGKLVSPKWNFKGLKLLCRDKIRLNNAIWRAWYIQYVRRKS
 PVCGFVTPLQGPEADHRKPEAVVLEGNVWKRRIEVMREYHKWRIYKKRLRKPSREDDLLAPKQAEGR
 WPPPEQWCKQLFSSVVPVLLGDPEEPEGGRQLLDLNCFLSDISDTLFTMTQSGPSPLQLPPEDAYVGNAD
 MIQPDLTPLQPSLDDFMDISDFFTNSRLQPPMPSNFPEPPSFSPVVDSLFSSGTLGPEVPPASSAMTHL
 SGHSRLQARNSCPGPLDSSAFLSSDFLLPEDPKPRLPPPVPPPPLLHYPPPAKVPGLEPCPPPPFPPMAP
 PTALLQEEPLFSRPFPTVPPAPGVSPLPAPAAFPPTPQSVSPAPTFFPIELLPLGYSEPAFGPCFSM
 PRGKPPAPSPRGQKASPPTLAPATASPPTTAGSNNPCLTQLLTAAKPEQALEPPLVSSTLLRSPGSPQET
 VPEFPCTFLPPTPAPTPRPPPGPATLAPSRPLLVPKAERLSPAPSGSERRLSGDLSSMPGPGTLSVRV
 SPPQPIILSRGRPDSNKTENRRIHISAEQKRRFNKLGFDLHGLVSTLSAQPSLKERAGLQEEAQQLRD
 EIEELNAAINLCQQQLPATGVPIHQRFQMRDMFDDYVTRTRLHNWKFVVFILIRPLFESFNGMVSTA
 SVHTLRQTSALWLDQYCSLPALRPTVLNSLRQLGTSTLITDTPGRIPEQATRAVTEGTLGKPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_032952

ORF Size: 2499 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_032952.3](#)

RefSeq Size: 3231 bp

RefSeq ORF: 2502 bp

Locus ID: 51085

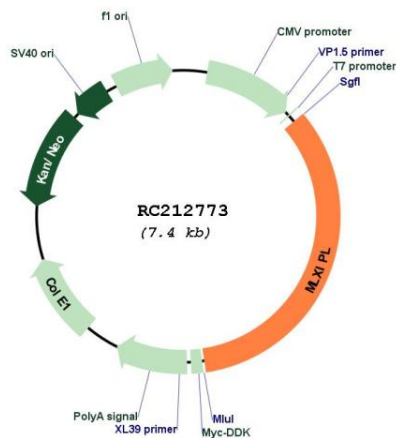
UniProt ID: [Q9NP71](#)

Cytogenetics: 7q11.23

MW: 90.7 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 RC212773