

## Product datasheet for **RG213893**

### CHREBP (MLXIPL) (NM\_032953) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHREBP (MLXIPL) (NM_032953) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHREBP
Synonyms:	bHLHd14; CHREBP; MIO; MLX; MONDOB; WBSCR14; WS-bHLH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG213893 representing NM\_032953  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGGCGCGCTGGCAGGTCTGGCCGGGGCTTGCAGGTCCCGCGGGTTCGCGCCAGCCAGACTCGG  
 ACTCGGACACAGACTCGGAGGACCCGAGTCTCCGGCGCAGCGCGGGCGGCTTGTCCGCTCGCAGGTCAT  
 CCACAGCGGTCACTTCATGGTGTCTGCGCCGACAGCGACTCGTGCCTCCGCGCGCGGACCAGGAGGGG  
 TCCGTGGGGCCCTCCGACTTCGGGCCGCGCAGTATCGACCCACACTCACACGCCTCTTCGAGTGTGTA  
 GCCTGGCTACAGTGGCAAGCTGGTGTCTCCCAAGTGAAGAATTTCAAAGGCCTCAAGTGTCTGACAG  
 AGACAAGATCCGCTGAACAACGCCATCTGAGGGCCTGGTATATCCAGTATGTGAAGCGGAGGAAGAGC  
 CCCGTGTGTGGCTTCGTGACCCCTGCAGGGCCTGAGGCTGATGCGCACCGGAAGCCGGAGGCCGTGG  
 TCCTGGAGGGAACTACTGGAAGCGCGCATCGAGGTGGTATGCGGGAATACCACAAGTGGCGCATCTA  
 CTACAAGAAGCGCTCCGTAAGCCAGCAGGGAAGATGACCTCCTGGCCCTAAGCAGGCGGAAGGCAGG  
 TGGCCCGCGCGGAGCAATGGTGCAAACAGCTTCTCCAGTGTGGTCCCGTGTCTGGGGGACCCAG  
 AGGAGGAGCCGGTGGCGGCAGCTCCTGGACCTCAATTGCTTTTTGTCCGACATCTCAGACACTCTCTT  
 CACCATGACTCAGTCCGGCCCTTCGCCCCGACGCTGCCGCTGAGGATGCCTACGTCCGCAATGCTGAC  
 ATGATCCAGCCGACCTGACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTA  
 CCAACTCCCGCTCCACAGCCGCCATGCCTTCAAATTCAGAGCCCCCAGCTTACGCCCCGTGGT  
 TGACTCCCTCTCAGCAGTGGGACCTGGGCCCAGAGGTGCCCGCGCTTCTCGCCATGACCCACCTC  
 TCTGGACACAGCCGTCTGCAGGCTCGGAACAGCTGCCCTGGCCCTTGGACTCCAGCGCTCTCTGAGTT  
 CTGATTTCTCTCTGAAGACCCCAAGCCCGGCTCCACCCCTCTGTACCCCACTCTGCTGCA  
 TTACCTCCCGCTGCAAGGTGCCAGGCTGGAGCCTGCCCGCACCTCCCTTCCCTCCATGGCACCA  
 CCCACTGCTTTGCTGCAGGAAGAGCCTCTCTTCTCCAGGTTTCCCTCCCGCCGCTCCCTCGCC  
 CAGGAGTGTCTCCGCTGCCTGCTCTGCAGCCTTCCACCCACCCACAGTCTGTCCCGAGCCAGCCCC  
 CACCCCTTCCCATAGAGCTTCTACCCTTGGGGTATTCGGAGCCTGCCTTGGGCTTGTCTCCATG  
 CCCAGAGGCAAGCCCCCGCCCATCCCTAGGGGACAGAAAGCCAGCCCCCTACCTTAGCCCTGCCA  
 CTGCCAGTCCCCCACCCTGCGGGGAGCAACAACCCCTGCCTCACACAGCTGCTCACAGCAGTAAGCC  
 GGAGCAAGCCCTGGAGCCACCCTTGTATCCAGCACCTCCTCCGGTCCCAGGGTCCCGCAGGAGACA  
 GTCCTGAATTCCTGACATTCCTTCCCGGACCCCGGCCCTACACCGCCCCGGCCACCTCCAGGCC  
 CGGCCACATTGGCCCTTCCAGGCCCTGCTTGTCCCAAGCGGAGCGGCTCTACCCCGAGCGCCAG  
 CGGCAGTGAACGGCGGCTGTGAGGGGACCTCAGTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTC  
 TCTCCCCGCAACCCATCCTCAGCCGGGGCGTCCAGACAGCAACAAGAACCAGGCGTATCACACACATCT  
 CCGCGGAGCAGAAGCGGCGCTTCAACATCAAGCTGGGGTTTGACACCTTTCATGGGCTCGTGGACACT  
 CAGTGGCCAGCCAGCCTCAAGGTGAGCAAAGTACCACGCTGCAGAAGACAGCTGAGTACATCCTTATG  
 CTACAGCAGGAGCGTGGGGCTTGCAGGAGGAGGCCAGCAGTGCGGGATGAGATTGAGGAGCTCAATG  
 CCGCCATTAACCTGTGCCAGCAGCAGCTGCCCGCCACAGGGTACCCATCACACACCAGCGTTTTGACCA  
 GATGCGAGACATGTTTGTGACTACGTCCGAACCCGTACGCTGCACAACCTGGAAGTCTGGGTGTTGAGC  
 ATCCTCATCCGGCTCTGTTGAGTCTTCAACGGGATGGTGTCCACGGCAAGTGTGCACACCCCTCCGCC  
 AGACCTACTGGCCTGGCTGGACCACTGCTCTGCCCCGCTTCCGGCAACTGTCTGAACTCCCT  
 ACGCCAGTGGGCACATCTACCAGTATCCTGACCGACCCGGGCCGATCCCTGAGCAAGCCACACGGGCA  
 GTCACAGAGGGCACCTTGGCAAACCTTTA

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

Protein Sequence: >RG213893 representing NM\_032953  
Red=Cloning site Green=Tags(s)

MAGALAGLAAGLQVPRVAPSPDSDSDTSEDP SLRRSAGGLLRSQVIHSGHFMVSSPHSDSLPRRRDQEG  
SVGPSDFGPRSIDPTLTRLFECLSLAYSGKLVSPKWKFGLKLLCRDKIRLNNAIWRAWYIQYVRRKS  
PVCGFVTPLQGPEADHRKPEAVVLEGNWKRRIEVMREYHKWRIYYKRLRKPSREDDLLAPKQAEGR  
WPPPEQWCKQLFSSVVPVLLGDPEEPEGGRQLLDLNCFLSDISDTLFTMTQSGPSPLQLPPEDAYVGNAD  
MIQPDLTPLQPSLDDFMDISDFFTNSRLPQPPMPSNFPEPPSFSPVVDLSLFSSTLGPVPPASSAMTHL  
SGHSRLQARNSCPGPLDSSAFLSSDFLLPEDPKPRLPPPVPVPLLHYPPPAKVPLEPCPPPPFPPMAP  
PTALLQEEPLFSRPFPTVPPAPGVSPLPAPAAFPPTQSVSPAPTFFPIELLPLGYSEPAFGPCFSM  
PRGKPPASPRGQKASPTLAPATASPTTAGSNNPCLTQLLTAAPQALEPPLVSSTLLRSPGSPQET  
VPEFPCTFLPPTPAPTPRPPPGPATLAPSRPLLVPKAERLSPAPSGSERLSGDLSSMPGPGTLSVRV  
SPPQPIILSRGRPDSNKNRRITHISAEQRRFNKLGFDLHGLVSTLSAQPSLKVSKATTLQKTAEYILM  
LQQRAGLQEEAQLRDEIEELNAAINLCQQQLPATGVPITHQRFDQMRDMFDDYVTRTRLHNWKFVFS  
ILIRPLFESFNGMYSTASVHTLRQTSALWLDQYCSLPALRPTVLNSLRQLGTSTILTDPGRIPQATRA  
VTEGTLGKPL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_032953

**ORF Size:** 2550 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\\_032953.3](#)

**RefSeq Size:** 3282 bp

**RefSeq ORF:** 2553 bp

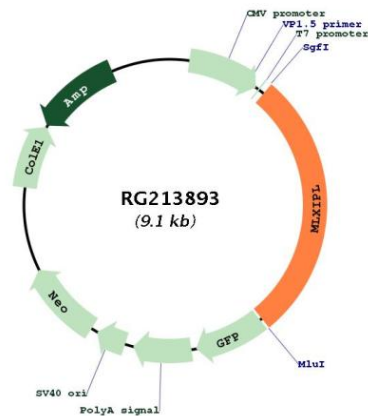
**Locus ID:** 51085

**UniProt ID:** [Q9NP71](#)

**Cytogenetics:** 7q11.23

**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 RG213893