

Product datasheet for **SC126048**

CHREBP (MLXIPL) (BC012925) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHREBP (MLXIPL) (BC012925) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHREBP
Synonyms:	bHLHd14; carbohy; carbohydrate response element binding protein; CHREBP; MIO; Mix interactor; MONDOB; OTTHUMP00000160457; OTTHUMP00000160458; WBSCR14; Williams Beuren syndrome chromosome region 14; WS-bHLH; WS basic-helix-loop-helix leucine zipper protein
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC012925 edited GGCGTTGCGGCGGCGACAGCCATGGCCGCGCGCTGGCAGGTCTGGCCGCGGGCTTGCA GGTCCCGCGGGTTCGCGCCAGCCAGACTCGGACTCGGACACAGACTCGGAGGACCCGAG TCTCCGGCGCAGCGCGGGCGGCTTGCTCCGCTCGCAGGTATCCACAGCGGTCACTTCAT GGTGTCTGTCGCGCACAGCGACTCGCTGCCCGGCGGCGGACCAGGAGGGGTCCGTGGG GCCCTCCGACTTCGGGCCGCGCAGTATCGACCCACACTCACACGCCTCTTCGAGTGCTT GAGCCTGGCCTACAGTGGCAAGCTGGTGTCTCCCAAGTGAAGAATTTCAAAGGCCTCAA GCTGCTCTGCAGAGACAAGATCCGCCTGAACAACGCCATCTGGAGGCCTGGTATATCCA GTATGTGAAGCGGAGGAAGAGCCCGTGTGTGGCTTCGTGACCCCTGCAGGGGCTGA GGCTGATGCGCACCGGAAGCCGGAGGCCGTGGTCTGGAGGGAACTACTGGAAGCGGCG CATCGAGCTGCCGCTGAGGATGCCTACGTGCGCAATGCTGACATGATCCAGCCGACCT GACGCCACTGCAGCCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTACCAACTC CCGCTCCACAGCCGCCATGCCTTCAAATTTCCAGAGCCCCCAGCTTCAGCCCCGT GGTTGACTCCCTTTCAGCAGTGGGACCCTGGGCCAGAGGTGCCCGGCTTCTCGGC CATGACCCACCTCTGAGACACGCCGTCTGCAGGCTCGGAACAGCTGCCCTGGCCCTT GGACTCCAGCGCTTCTGAGTTCTGATTTCTCTCTTCTGAAGACCCCAAGCCCCGCT CCCACCCCTCTGTACCCACCTCTGCTGCATTACCCTCCCCCTGCCAAGGTGCCAGG CCTGGAGCCCTGCCCCACCTCCCTCCCTCCATGGCACCACCCTGCTTTGCTGCA GGAAGAGCCTCTTCTCTCCAGGTTTCCCTTCCCAACCGTCCCTCTGCCCCAGGAGT GTCTCCGCTGCCTGCTCTGCAGCCTTCCACCCACCCACAGTCTGTCCCAGCCAGC CCCCACCCCTTCCCATAGAGCTTCTACCCCTGGGGTATTGGGAGCCTGCCTTTGGGC TTGCTTCCATGCCAGAGGCAAGCCCCCGCCCATCCCTAGGGGACAGAAAGCCAG CCCCCTACCTTAGCCCTGCCACTGCCAGTCCCCCACCCTGCGGGGAGCAACAACC



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CTGCCTCACACAGCTGCTCACAGCAGCTAAGCCGGAGCAAGCCCTGGAGCCACCACTTGT
 ATCCAGCACCCCTCCTCCGGTCCCCAGGGTCCCCGGAGACAGTCCCTGAATCCCCCTGCAC
 ATTCCTTCCCCGACCCCGGCCCTACACCGCCCCGGCCACCTCCAGGCCGGCCACATT
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 GAGCAAAGCTACCACGCTGCAGAAGACAGCTGAGTACATCCTTATGCTACAGCAGGAGCG
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 GTTCTGGGTGTTACGATCCTCATCCGGCCTCTGTTTGTGCTTCAACGGGATGGTGTC
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 TCGGGGTGGAGGGAGCATTCCACCCTGCTTAGATCCCACATCCAGCTTGCCATCAACAC
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 GAAGAGCAGAGTCCCGTCCCTGCTCTGCCACTGTGCTCCAGCACCGTGACCTTGGGTGA
 CTGTCGCTGTCTTTGGACCGCTGTGTTTCAATCTGCAAAAATGGGGATGGGAAGGTTT
 AATCAGCAGATGACCCCCAGGCCCTGGCAGCTGTGACATTGGGGGCTAGGCTGGCAACT
 CCGGGGGTCAACGGTGGAAAGAGGAGGATGCTGTTTCTCTGTCACCTCCACTTGTCTCC
 CGACAGGTGGGGCACAGACCTCTGTTCTGAGCAGAGAAGCAGAAAAGGAGGTTCCCTCT
 CTCTGCTCCTTACTGCTGACCCAGAGGGGCTGCAGGATGGTTTCCCTGGGAGAGGCCA
 GGAGGGCCTGATCCAGGAGACACCAGGGCCAGAGTGACCACAGCAGGGCAGGCATCATG
 TGTGTGTGTGTGTGGATGTGTGTGTGTGGTTTTGTAAGAATCTTGACCAATAAAA
 GCAAAAACGTCAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for BC012925 unedited
 NGGGAGTTCTGATTTGTATACCATTATATAGCGGCCCGGNATCAAATCTGGTACCGGT
 CCGGAATTCGCGGNAATCGTCGACCCACGCGTCCGGCGGTTGCGGCGGCGACAGCCAT
 GGCCGGCGCGCTGGCAGGTCTGGCCGGGCTTGCAGGTCCCGCGGTCGCGCCAGCCC
 AGACTCGGACTCGGACACAGACTCGGAGGACCCGAGTCTCCGGCGCAGCGCGGGCGCTT
 GCTCCGCTCGCAGGTATCCACAGCGGTCACTTATGGTGTGTCGCGCCGACAGCGACTC
 GCTGCCCGGGCGCGGACCCAGGAGGGTCCGTGGGGCCCTCCGACTTCCGGCCGCGCAG
 TATCGACCCACACTCACAGCCTCTTCGAGTGTGAGCCTGGCCTACAGTGGCAAGCT
 GGTGTCTCCCAAGTGAAGAATTTCAAAGGCCCAAGTGTCTCTGAGAGACAAGATCCG
 CCTGAACAACGCCATCTGGAGGGCCTGGTATATCCAGTATGTGAAGCGGAGGAAGAGCCC
 CGTGTGTGGCTTCGTGACCCCCCTGCAGGGGCTGAGGCTGATGCGCACCCGGAAGCCGGA
 GGCCGTGGTCTGGAGGGAACTACTGGAAGCGGCGCATCGAGCTGCCGCCTGAGGATGC
 CTACGTGCGCAATGCTGACATGATCCAGCCGACCTGACGCCACTGACGCCAAGCCTGGA
 TGACTTATGGACATCTCAGATTTCTTTACCAACTCCCGCCTCCCAAGCCGCCATGCTT
 TCAAACCTCCAGAGCCCCCAGCTTACGCCCCGTGGTTGACTCCCTCTTACAGAGTGGG
 ACCCTGGGCCAN

Restriction Sites:

NotI-NotI

ACCN:	BC012925
Insert Size:	3300 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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:	BC012925.1 , AAH12925.1
RefSeq Size:	3267 bp
Locus ID:	51085
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]