

## Product datasheet for **RC220626**

### CHREBP (MLXIPL) (NM\_032951) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHREBP (MLXIPL) (NM_032951) 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:**

>RC220626 representing NM\_032951  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGGCGCGTGGCAGGTCTGGCCGGGGCTTGCAGGTCCCAGGGTTCGCGCCAGCCAGACTCGG  
 ACTCGGACACAGACTCGGAGGACCCGAGTCTCCGGCGCAGCGCGGGCGGCTTGTCCGCTCGCAGGTCAT  
 CCACAGCGGTCACTTCATGGTGTGTCGCGCCGACAGGACTCGTGCCTCCGCGCGCGGACAGGAGGGG  
 TCCGTGGGGCCCTCCGACTTCGGGCCGCGCAGTATCGACCCACACTCACACGCCTTTCGAGTGTGTA  
 GCCTGGCTACAGTGGCAAGCTGGTGTCTCCAAAGTGAAGAATTTCAAAGGCCTCAAGTGTCTGCAG  
 AGACAAGATCCGCTGAACAACGCCATCTGAGGGCCTGGTATATCCAGTATGTGAAGCGGAGGAAGAGC  
 CCCGTGTGTGGCTTCGTGACCCCTGCAGGGCCTGAGGCTGATGCGCACCGGAAGCCGGAGGCCGTGG  
 TCCTGGAGGGAACTACTGGAAGCGGCGCATCGAGGTGGTGTGCGGGAATACCACAAGTGGCGCATCTA  
 CTACAAGAAGCGCTCCGTAAGCCAGCAGGGAAGATGACCTCCTGGCCCTAAGCAGGCGGAAGGCAGG  
 TGGCCCGCGCGGAGCAATGGTGCAAACAGCTTCTCCAGTGTGGTCCCGTGTGCTGGGGGACCCAG  
 AGGAGGAGCCGGTGGCGGCAGCTCCTGGACCTCAATTGCTTTTTGTCCGACATCTCAGACACTCTCTT  
 CACCATGACTCAGTCCGGCCCTTCGCCCCGACGCTGCCGCTGAGGATGCCTACGTCCGCAATGCTGAC  
 ATGATCCAGCCGACCTGACGCCACTGCAGCAAGCCTGGATGACTTCATGGACATCTCAGATTTCTTTA  
 CCAACTCCCGCTCCACAGCCGCCATGCCTTCAAATTCAGAGCCCCCAGCTTACGCCCCGTGGT  
 TGACTCCCTTTCAGCAGTGGGACCTGGGCCCAGAGGTGCCCGGGCTTCTCGCCATGACCCACCTC  
 TCTGGACACAGCCGTCTGCAGGCTCGGAACAGCTGCCCTGGCCCTTGGACTCCAGCCCTCTCTGAGTT  
 CTGATTTCTCTCTGGAAGACCCCAAGCCCGGCTCCACCCCTCTGTACCCCACTCTGCTGCA  
 TTACCCTCCCGCTGCCAAGGTGCCAGGCTGGAGCCTGCCCGCCACTCCCTTCCCTCCCATGGCACCA  
 CCCACTGCTTTGCTGCAGGAAGAGCCTCTCTTCTCCAGGTTTCCCTTCCCGCCGTCCTCTGCCC  
 CAGGAGTGTCTCCGCTGCCTGCTCCTGCAGCCTTCCACCCACCCACAGTCTGTCCCAGCCAGCCCC  
 CACCCCTTCCCATAGAGCTTCTACCCTTGGGGTATTCGGAGCCTGCCTTGGGCTTGTCTTCCATG  
 CCCAGAGGCAAGCCCCCGCCCATCCCTAGGGGACAGAAAGCCAGCCCCCTACCTTAGCCCTGCCA  
 CTGCCAGTCCCCCACCCTGCGGGGAGCAACAACCCCTGCCTCACACAGCTGCTCACAGCAGTAAGCC  
 GGAGCAAGCCCTGGAGCCACCCTTGTATCCAGCACCTCCTCCGGTCCCAGGGTCCCCGAGGAGACA  
 GTCCTGAATTCCTGACATTCCTTCCCGGACCCCGGCCCTACACCGCCCCGGCCACCTCCAGGCC  
 CGGCCACATTGGCCCTTCCAGGCCCTGCTTGTCCCAAGCGGAGCGGCTCTCACCCAGCGCCAG  
 CGGCAGTGAACGGCGGCTGTGAGGGGACCTCAGTCCATGCCAGGCCCTGGGACTCTGAGCGTCCGTGTC  
 TCTCCCCGCAACCCATCCTCAGCCGGGGCGTCCAGACAGCAACAAGACCGAGAACCAGCGTATCACAC  
 ACATCTCCGCGGAGCAGAAGCGGCGCTTCAACATCAAGCTGGGGTTTGACACCCTTATGGGCTCGTGAG  
 CACTCAGTCCCAGCCAGCCTCAAGGTGAGCAAAGCTACCACGCTGCAGAAGACAGCTGAGTACATC  
 CTTATGCTACAGCAGGAGCGTGGGGCTTGAGGAGGAGGCCAGCAGCTGCGGGATGAGATTGAGGAGC  
 TCAATGCCCCATTAACCTGTGCCAGCAGCAGTGCCTGCCACAGGGTACCCATCACACACCAGCGTTT  
 TGACCAGATGCGAGACATGTTTGTGACTACGTCCGAACCCGTACGCTGCACAACCTGGAAGTTCTGGGTG  
 TTCAGCATCCTCATCCGGCCTCTGTTTGTGCTTCAACGGGATGGTGTCCACGGCAAGTGTGACACCC  
 TCCGCCAGACCTCACTGGCCTGGCTGGACCAGTACTGCTCTGCCCCGCTCTCCGGCAACTGCTCTGAA  
 CTCCTACGCCAGCTGGGCATCTACCAGTATCCTGACCGACCCGGCCGCATCCCTGAGCAAGCCACA  
 CGGCAGTCACAGAGGGCACCTTGGCAAACCTTTA

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC220626 representing NM\_032951  
 Red=Cloning site Green=Tags(s)

MAGALAGLAAGLQVPRVAPSPDSDSDTDEPSLRRSAGLLRSQVIHSGHFMVSSPHSDSLPRRRDQEG  
 SVGPSDFGPRSIDPTLTRLFECLSLAYSGKLVSPKWKFGLKLLCRDKIRLNNAIWRAWYIQYVKKRKS  
 PVCGFVTPAQPEADHRKPEAVVLEGNVWKRRIEVMREYHKWRIYYKKRLRKPREDLLAPKQAEGR  
 WPPPEQWCKQLFSSVVPVLLGDPEEPEGGRQLLDLNCFLSDISDTLFTMTQSGPSPLQLPPEDAYVGNAD  
 MIQPDLTPLQPSLDLDFMDSDFFTNSRLPQPPMPSNFPEPPSPVVDLSLSSGTLGPEVPPASSAMTHL  
 SGHSRLQARNSCPGLDSSAFLSSDFLLPEDPKPRLPPPVPPLLHYPVPAKVPGLPECPPPPFPMPAP  
 PTALLQEEPLFSRPFPTVPPAPGVSPLPAPAAFPPTPQSVSPAPTFFPIELLPLGYSEPAFGPCFSM  
 PRGKPPAPSPRGQKASPTLAPATASPPTTAGSNNPCLTQLLTAAPQALEPPLVSSTLLRSPGSPQET  
 VPEFPCTFLPPTPAPTPRPPPGPATLAPSRPLLVPKAERLSPAPSGSERLGGDLSSMPGPGTLSVRV  
 SPPQPIILSRGRPDSNKTENRRIHISAEQKRRFNKLGFDLHGLVSTLSAQPSLVSKATTLQKTAEYI  
 LMLQERAGLQEEAQQLRDEIEELNAAINLCQQQLPATGVPIHQRFDMRDMFDDYVVRTLHNWKFVW  
 FSILIRPLFESFNGMVSTASVHTLRQTSLAWLDQYCSLPALRPTVLNSLRQLGTSTISILTDGPRIPEQAT  
 RAVTEGTLGKPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg3402\\_g09.zip](https://cdn.origene.com/chromatograms/mg3402_g09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

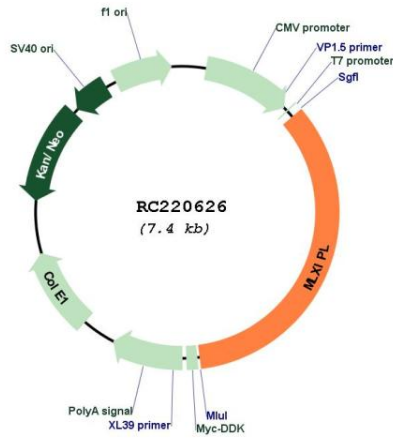
Cloning sites used for ORF Shuttling:



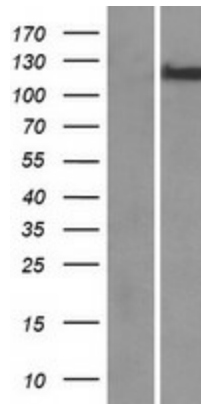
\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_032951
<b>ORF Size:</b>	2556 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_032951.3</a>
<b>RefSeq Size:</b>	3288 bp
<b>RefSeq ORF:</b>	2559 bp
<b>Locus ID:</b>	51085
<b>UniProt ID:</b>	<a href="#">Q9NP71</a>
<b>Cytogenetics:</b>	7q11.23
<b>MW:</b>	92.9 kDa
<b>Gene Summary:</b>	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 RC220626



Western blot validation of overexpression lysate (Cat# [LY409836]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220626 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).