

Product datasheet for MR222616

Ctbp2 (NM_001170744) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctbp2 (NM_001170744) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctbp2
Synonyms:	AA407280; D7Ertd45e; Gtrgeo6; Ribeye
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222616 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGTCCCAGCAGGCACATCAATATTGGCCGTTCTCAGAGCTGGGATGCTGCTGGCTGGTATGAGG
GCCCTGGGAGAATGCTGGACCTCCAGGGAGGAGAAGTTCTCTGACGTATGGCCCTGGAGAAGGGACCTG
GTGCGAGCTGCTAAACCATCGTGCCAGGATACTGAGTCTACCTGTCCCGGAAGCTTTTTATAACTCA
CTGGCATCAAGAAAGGGCTCCGTGCCTGACTTCACCTTCTACGACAGCAGGCAGGCAGTGTCTGGCC
GTGGCTCCGTGCTGCCACAAGACTACTATGGCGACCCATCCAGGGGCACCCAGGGTACCCAAGGAGCTCC
TTCTATCGGGACCCAGGAACCAGCCGGCCGGTGCACAGTACCGAATGCTTGGCAGCAGAATGCCATGG
GAGCAGGTACAAGGCCAGTTACCTGCTCTGAGGACACTGGCCACCTGTACCCGGAATCTGGGGGTA
CTGTCCCGCATGGCCAGCGGACACACGGCAGGGCTCCATCTCCTGGGAGGTATGGAAGGGAACAGCCTGA
TACCAGATTAGGGATAGAGGTACCTACCTATCCCCCACTCCAGTCAGGTCTACAACGATATCTGCGAA
AGACCTGTTGACTCAACCCTGCCAGACAGGTGGCCCCAATGCCTGGTTGTGGACCCAGCTCAGCTG
TCCCTACTGAGAACAGCACGGGGTGGCCCCGGTTCCCTGAATAGAGGCTATGGCCTACCCGAGAAAG
CATCCATTCAAAGCTGGCTTATGAGAATTACGAAGCTGACTTGTCTACATTCCAAGGACCTGGGGCAAG
AGGACCATGTACCCTGAGTTTTTGGCCCTGCTGAGGGCAGAGGGTGTGGCAGAGGCCACCCTAGCAGCCC
TGTTACAGCAAGGCTTTGACTCCCCAGCTGTCTTGGCCACCCTGGAGGATGCTGACATCAAGTCTGTTGC
ACCCAACCTGGGCCAGGCCGAGTCTTAAGCCGCTAGCCAGCAGCTGCAGGACAGAGATGCAGTTTCGG
AGACAGGACCGGACGGGCCCTCTACCCGCAATAGGTCCAGTAGCTTCCAGCCACCAGGAGTGTGCTGC
CCAATGACATGGCCTCACTGGGTACCACAGCCCTGCAGTTTACCCTGCTGGACCTTTCAGACACCCTC
TCCCCGAGCTGGAGATCTAGGTCCGCGCCCTCCAGTGCACCTTCCAGCACCTCTTGGAGACAGCAGCT
ACTTATCCACCCAGTGGTGGGGTCCCAAACCCCACTTACCCTCCAACCTCTGGATATAGCTCTCCTA
CCCCCTGTGCCCTAACAGCACGGCTGGCCTCCTCATATCCTTACAAGCTGGGGTAGCCTTGACTGCTAA
CCCAGGCCCTCTGCTCCCTTCACTCAAATCCAGAAGTGCCTACTCCACCTCGTACACGGTGCCCATG



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GAAGTCTTAAGAGGGAACGCAGCATGACCGCCTCTCCGCTGCCAGCCCGCACGGCAGCCCCAGCTCC
 TCGGAAACCTGGAGCAGCCCCGTGGAGCCGTACCCCTGCCACCAGTCAGCCAAAGTCTCCACACACC
 TCATTCACCGTACCAGAAGGTGGCCCGGGACTGGGGCTCCCATCATCGTGTCAACCATGCTAACTCCA
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 CACTCAGGAAATCCATGAGAAGGTGTTGAATGAGGCTGTGGGTGCCATGATGTACCACACCATCACCCCTC
 ACCAGGGAAGACCTGGAGAAGTTCAAGGCCCTGAGAGTGATCGTGCGAATCGGTAGTGGCTACGACAAC
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 ACACAGCCTGGTACAGTGAACAAGCATCACTAGAGATGAGGGAAGCAGCAGCCACTGAGATCCGCCGAGC
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 TGGTCAGTCATTGACCAGCAAGCAATTCACCCCGAGCTCAATGGTGCCACATACAGGTATCCACCCGGCA
 TTGTAGGTGTGGTCCAGGAGGGCTTCTCCAGCGATGGAAGGGATCATCCCTGGGGCATCCCCGTGAC
 TCACAACCTCCCCACAGTGGCACACCCCTCCAAGCTCCTCCCCAACCCAGCCCAAAAACACGGGGAC
 AATCGAGAGCACCCCAACGAGCAA

ACGCGTACGCGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence:

>MR222616 protein sequence
 Red=Cloning site Green=Tags(s)

MPVPSRHINIGRSQSWDAAGWYEGPWENAGPPGRRSSLTYGPEGTWCELLNHRAQDTESYLSREAFYNS
 LASRKGSVPDFTFYDSRQAVMSGRGSVLPQDYGDPSRGTRVPKEPPFYRDPGTSRPVPSYGM LGS RMPW
 EQVQQLPALQDTGHLYPESSGKTVPHGQRTHGRAPSPGRYGREQPDTRLGIEVPTYSPNSSQVYNDICE
 RPVDSTPARQVAPTCLVDPSSAVPTENSTGVAPGSLNRGYGPTRESIHSKLAYENYEADLSTFQGPGGK
 RTMYPEFLALLRAEGVAEATLAALLQQGFDSPAVLATLEDADIKSVAPNLGQARVLSRLASSCRTEMQFR
 RQDRTPGLPRNRSSFSHRSELLPNDMASLGTTALQFHPAGPLQTPSPRAGDLGRRPSSAPSQHLLLETA
 TYSTPVVGSQTPHLPSNSGYSSPTPCALTARLASSYPSQAGVALTANPGPSAPLHNSNPRAYSTSYTVPM
 ELLKRERSMTASPLPSPHGSPQLLRKPGAAPVEPSTLPPVSQSLHTPHSPYQKVARRTGAPIIVSTMLTP
 EPSIRPQIMNGPLHPRPLVALLDGRDCTVEMPILKDLATVAFCDQSTQEIHEKVLNEAVGAMMYHTITL
 TREDLEKFKALRVIVRIGSGYDNVDIKAAGELGIAVCNIPSAAVEETADSTVCHILNLYRRNTWLQALR
 EGTRVQSVEQIREVASGAARIRGETLGLIGFGRTGQAVAVRAKAFGFSVIFYDPYLQDGIERSLGVRVY
 TLQDLLYQSDCVSLHCNLNEHNLHINDFTIKMRQGAFLVNAARGGLVDEKALAQAALKEGRIRGAALDV
 HESEPFSAQGPLKDAPNLICTPHTAWYSEQASLEMREAAATEIRRAITGRIPESLRNCVNKEFFVTSAP
 WSVIDQQAHPPELNGATYRYPGIVGVAPGGLPPAMEGIIPGGIPVTHNLPTVAHPSQAPSPNQPTKHGD
 NREHPNEQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001170744

ORF Size: 2964 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_001170744.1](#), [NP_001164215.1](#)

RefSeq Size: 4170 bp

RefSeq ORF: 2967 bp

Locus ID: 13017

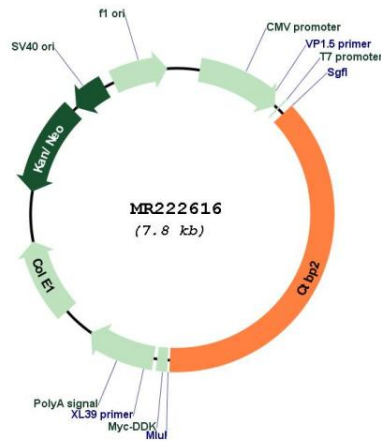
UniProt ID: [P56546](#)

Cytogenetics: 7 76.32 cM

MW: 107.1 kDa

Gene Summary: Corepressor targeting diverse transcription regulators. Isoform 2 probably acts as a scaffold for specialized synapses (By similarity). Functions in brown adipose tissue (BAT) differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222616