

Product datasheet for **MG222616**

Ctbp2 (NM_001170744) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctbp2 (NM_001170744) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ctbp2
Synonyms:	AA407280; D7Ertd45e; Gtrgeo6; Ribeye
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222616 representing NM_001170744
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGTCCACGACGGCACATCAATATTGGCCGTTCTCAGAGCTGGGATGCTGCTGGCTGGTATGAGG
 GCCCTTGGGAGAATGCTGGACCTCCAGGGAGGAGAAGTTCTCTGACGTATGGCCCTGGAGAAGGGACCTG
 GTGCGAGCTGCTAAACCATCGTGCCAGGATACTGAGTCTACCTGTCCCGGGAAGCTTTTTATAACTCA
 CTGGCATCAAGAAAGGGCTCCGTGCCTGACTTCACCTTCTACGACAGCAGGCAGGCAGTGTCTGGCC
 GTGGCTCCGTGCTGCCACAAGACTACTATGGCGACCCATCCAGGGGCACCCAGGGTACCCAAGGAGCTCC
 CTTCTATCGGGACCCAGGAACAGCCGGCCGGTGGCCAGCTACGGAATGCTTGGCAGCAGAATGCCATGG
 GAGCAGGTACAAGGCCAGTTACCTGCTCTGCAGGACACTGGCCACCTGTACCCGGAATCTGGGGTAAAA
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 TCCTACTGAGAACAGCACGGGGTGGCCCGGGTTCCTGAATAGAGGCTATGGGCTACCCGAGAAAAG
 CATCCATTCAAAGCTGGCTTATGAGAATTACGAAGCTGACTTGTCTACATTCGAAGGACCTGGGGCAAG
 AGGACCATGTACCTGAGTTTTTGGCCCTGCTGAGGGCAGAGGGTGTGGCAGAGGCCACCCTAGCAGCCC
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 ACCAGGGAAGACCTGGAGAAGTTCAAGGCCCTGAGAGTGTGTCGGAATCGGTAGTGGCTACGACAACG
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 AGCAGATTCGACAGTCTGCCACATTCTCAATCTGTATCGGCGGAACACATGGCTCTACCAGGCCCTCCGA
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 TTGTAGGTGTGGCTCCAGGAGGGCTTCTCCAGCGATGGAAGGGATCATCCCTGGGGCATCCCCGTGAC
 TACAACCTCCCCACAGTGGCACACCCCTCCCAAGCTCCTTCCCAACCCAGCCACAAAACACGGGGAC
 AATCGAGAGCACCCCAACGAGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222616 representing NM_001170744
 Red=Cloning site Green=Tags(s)

MPVPSRHINIGRSQSWDAAGWYEGPWENAGPPGRRSSLTYGPGEGTWCELLNHRAQDTESYLSREAFYNS
 LASRKGSVPDFTFYDSRQAVMSGRGSLPQDYGDPSRGTVPKPEPFYRDPGTSRPVPSYGLGSRMPW
 EQVQQLPALQDTGHLYPESSGKTVPHGQRTHGRAPSPGRYGREQPDTRLGIEVPTYSPNSQVYNDICE
 RPVDSTPARQVAPTCLVDPSSAVPTENSTGVAPGSLNRGYGPTRESIHSKLAYENYEADLSTFQGPGGK
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 TYSTPVVGSQTPHLPSNSGYSSPTPCALTARLASSYPSQAGVALTANPGPSAPLHNSPRTAYSTSYVPM
 ELLKRERSMTASPLPSPHGSPQLLRKGAAPVEPSTLPPVSQSLHTPHSPYQKVARRTGAPIIVSTMLTP
 EPSIRPQIMNGPLHPRPLVALLDGRDCTVEMPILKDLATVAFCDASTQEIHEKVLNEAVGAMMYHTITL
 TREDLEKFKALRVIVRIGSGYDNDVIKAAGELGIAVCNIPSAAVEETADSTVCHILNLYRRNTWLQALR
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 TLQDLLYQSDCVSLHCNLNEHNNHLINDFTIKQMRQGAFLVNAARGGLVDEKALAQALKEGRIRGAALDV
 HESEPFSAQGPLKDAPNLICTPHTAWYSEQASLEMREAAATEIRRAITGRIPESLRNCVNKEFFVTSAP
 WSVIDQQAHPPELNGATYRYPGIVGVAPGGLPPAMEGIIIPGGIPVTHNLPVVAHPSQAPSPNQPTKHGD
 NREHPNEQ

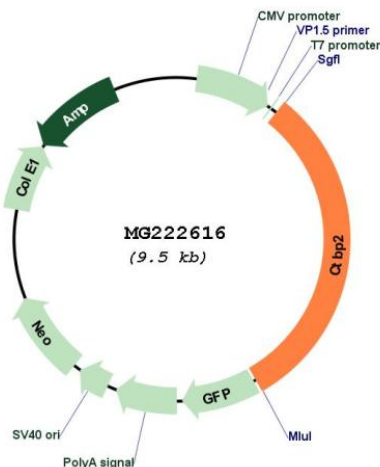
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


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

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]