

## Product datasheet for **RC238271**

### CTBP2 (NM\_001290215) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CTBP2 (NM_001290215) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CTBP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC238271 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCCTTGTGGATAAGCACAAAGTCAAGAGACAGCGATTGGACAGAATTTGTGAAGGTATCCGCCCC  
 AGATCATGAACGGCCCCCTGCACCCCGCCCCCTGGTGGCGCTGCTGGACGGCCGCGACTGCACTGTGGA  
 GATGCCCATCCTGAAGGACCTGGCCACTGTGGCCTTCTGTGACGCGCAGTCGACGCGAGAAATCCACGAG  
 AAGTTCTAAACGAAGCCGTGGGCGCCATGATGTACCACACCATCACCTCACCAGGGAGGACCTGGAGA  
 AGTTCAAGGCCCTGAGAGTGATCGTGCGGATAGGCAGTGGCTATGACAACGTGGACATCAAGGCTCCGG  
 CGAGCTCGGAATTGCCGTGTGAACATCCCGTCTGCAGCCGTGGAAGAGACAGCGGACTCTACCATCTGC  
 CACATCTCAACCTGTACCGGAGAACACGTGGCTGTACCAGGCACTGCGGGAAGGCACGCGGGTTCAGA  
 GCGTGGAGCAGATCCGCGAGGTGGCTCGGGAGCGGCCCGCATCCGTGGGAGACGCTGGCCCTCATTGG  
 CTTTGGTTCGACGGGCGAGCGGTTGCAGTTCGAGCCAAGGCCTTTGGATTACAGCGTCATATTTTATGAC  
 CCTACTTGCAGGATGGGATCGAGCGGTCCCTGGGCGTGCAGAGGCTACACCCCTGCAGGATTTGCTGT  
 ATCAGAGCGACTGCGTCTCCTTGCAGTCAATCTCAACGAACATAACCACCACCTCATCAATGACTTTAC  
 CATAAAGCAGATGAGGCAGGGAGCATTCTTGTGAACGCAGCCCGTGGCGGCTGGTGGACGAGAAAGCC  
 TTAGCACAAAGCCCTCAAGGAGGGCAGGATACGAGGGGCGAGCCCTCGACGTGCATGAGTCAGAGCCCTCA  
 GCTTTGCTCAGGGTCCGTTGAAAGATGCCCCGAATCTCATCTGCACTCCTCACACTGCCTGGTACAGTGA  
 GCAGGCGTCACTGGAGATGAGGGAGGACGCTGCCACCGAGATCCGCCGAGCCATCACAGGTGCATCCCA  
 GAAAGCTTAAGAAATTGTTGTAACAAGGAATCTTTGTACATCAGCGCCTTGGTCAGTAATAGACCAGC  
 AAGCAATTCACTCTGAGCTCAATGGTGCCACATACAGATATCCGCCAGGCATCGTGGGTGTGGCTCCAGG  
 AGGACTTCTGCAGCCATGGAAGGGATCATCCCTGGAGGCATCCAGTACTCACAACTCCCGACAGTG  
 GCACATCTTCCCAAGCGCCCTCTCCAACCGCCACAAAACACGGGGACAATCGAGAGCACCCCAACG  
 AGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238271 protein sequence  
 Red=Cloning site Green=Tags(s)

MALVDKHKVKRQRLDRICEGIRPQIMNGPLHPRPLVALLDGRDCTVEMPILKDLATVAFCDQSTQEIHE  
 KVLNEAVGAMMYHTITL TREDLEKFKALRVIVRIGSGYDNVDIKAAGELGIAVCNIPSAAVEETADSTIC  
 HILNLYRRNTWL YQALREGTRVQSVEQIREVASGAARIRGETLGLIGFGRTGQAVAVRAKAFGFSVIFYD  
 PYLQDGIERSLGVQRVYTLQDLLYQSDCVSLHCNLNEHNHHLINDFTIKQMRQGAFLVNAARGGLVDEKA  
 LAQALKEGRIRGAALDVHESEPFSAQGPLKDAPNLICTPHTAWYSEQASLEMREAAATEIRRAITGRIP  
 ESLRNCVNKEFFVTSAPWSVIDQQAHPPELNGATYRPPGIVGVAPGGLPAAMEGIIPGGIPVTHNLPV  
 AHPSQAPSPNQPTKHGDNREHPNEQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6705\\_e12.zip](https://cdn.origene.com/chromatograms/mk6705_e12.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001290215

**ORF Size:** 1335 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\\_001290215.3](#)

**RefSeq Size:** 3393 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 1488

**UniProt ID:** [P56545](#)

**Cytogenetics:** 10q26.13

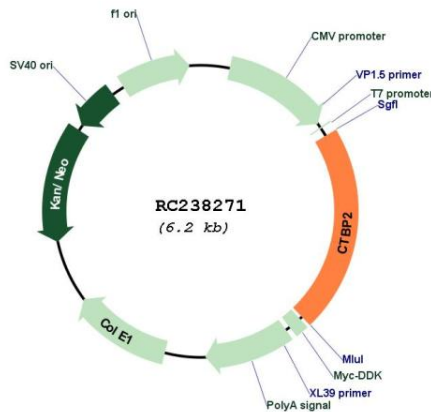
**Protein Families:** Stem cell - Pluripotency, Stem cell relevant signaling - Wnt Signaling pathway

**Protein Pathways:** Chronic myeloid leukemia, Notch signaling pathway, Pathways in cancer, Wnt signaling pathway

**MW:** 48.9 kDa

**Gene Summary:** This gene produces alternative transcripts encoding two distinct proteins. One protein is a transcriptional repressor, while the other isoform is a major component of specialized synapses known as synaptic ribbons. Both proteins contain a NAD<sup>+</sup> binding domain similar to NAD<sup>+</sup>-dependent 2-hydroxyacid dehydrogenases. A portion of the 3' untranslated region was used to map this gene to chromosome 21q21.3; however, it was noted that similar loci elsewhere in the genome are likely. Blast analysis shows that this gene is present on chromosome 10. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Feb 2014]

**Product images:**



Circular map for RC238271