

Product datasheet for **RG210529**

CTBP1 (NM_001328) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTBP1 (NM_001328) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CTBP1
Synonyms:	BARS; HADDTS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210529 representing NM_001328 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAGCTCGCACTTGTCTCAACAAGGGCCTGCCGCTTGGCGTCCGACCTCCGATCATGAACGGGCCCC
TGCACCCGCGGCCCTGGTGGCATTGCTGGATGGCCGGGACTGCACAGTGGAGATGCCCATCCTGAAGGA
CGTGGCCACTGTGGCCTTCTGCGACGCGCAGTCCACGCAGGAGATCCATGAGAAGTCTGAACGAGGCT
GTGGGGCCCTGATGTACCACACCATCACTCTCACCAGGGAGGACCTGGAGAAGTCAAAGCCCTCCGCA
TCATCGTCCGGATTGGCAGTGGTTTTGACAACATCGACATCAAGTCGGCCGGGGATTTAGGCATTGCCGT
CTGCAACGTGCCCGCGGGTCTGTGGAGGAGACGGCCGACTCGACGCTGTGCCACATCCTGAACCTGTAC
CGCGGGGCCACCTGGCTGCACCAGGCGCTGCGGGAGGGCACACGAGTCCAGAGCGTCGAGCAGATCCGCG
AGGTGGCGTCCGGCGTCCAGGATCCGCGGGGAGACCTTGGGCATCATCGGACTTGGTCCGCGTGGGGCA
GGCAGTGGCGTCCGGGCAAGGCCTTCGGCTTCAACGTGCTCTTCTACGACCCTTACTTGTCCGATGGC
GTGGAGCGGGCGTGGGGCTGCAGCGTGTGACACCCTGCAGGACCTGCTTCCACAGCGACTGCGTGA
CCCTGCACTGCGGCCTCAACGAGCACAACCACCACCTCATCAACGACTTACCCTCAAGCAGATGAGACA
AGGGCCCTTCTGGTGAACACAGCCCGGGTGGCTGGTGGATGAGAAGGCGCTGGCCCAGGCCCTGAAG
GAGGGCCGGATCCGCGGGCGGCCCTGGATGTGCACGAGTCGGAACCTTAAGCTTTAGCCAGGGCCCTC
TGAAGGATGCACCAACCTCATCTGCACCCCATGCTGCATGGTACAGCGAGCAGGCATCCATCGAGAT
GCGAGAGGAGGGCACGGGAGATCCGACAGGCCATCACAGGCCGATCCAGACAGCCTGAAGAACTGT
GTCAACAAGGACCATCTGACAGCCGCCACCCTGGGCCAGCATGGACCCCGCCGTCGTGCACCCTGAGC
TCAATGGGGTGCCTATAGGTACCCTCCGGCGTGGTGGCGTGGCCCCACTGGCATCCAGCTGCTGT
GGAAGGTATCGTCCCAGCGCCATGTCCCTGTCCACGGCCTGCCCTGTGGCCACCCGCCACGCC
CCTTCTCTGGCCAAACCGTCAAGCCGAGGGGATAGAGACCACGCCAGTGACCAGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210529 representing NM_001328
 Red=Cloning site Green=Tags(s)

MGSSHLLNKGPLGVRPPIMNGPLHPRPLVALLDGRDCTVEMPILKDVATVAFCDASTQEIHEKVLNEA
 VGALMYHTITL TREDLEKFKALRIIVRIGSGFDNIDIKSAGDLGIAVCNVPAASVEETADSTLCHILNLY
 RRATWLHQALREGTRVQSVQIREVASGAARIRGETLGIIGLGRVQQAVALRAKAFGFNVLFYDPYLSDG
 VERALGLQRVSTLQDLLFHSDCVTLHCGLNEHNHHLINDFTVKQMRQGAFLVNTARGGLVDEKALAQALK
 EGRIRGAALDVHESEPLSFSQGPLKDPNLICTPHAAWYSEQASIEEMREEAAREIRRAITGRIPDSLKNC
 VNKDHLTAATHWASMDPAVVHPELNGAAYRYPPGVVGVAPTGIPAAVEGI VPSAMSLSHGLPPVAHPPHA
 PSPGQTVKPEADRDHASDQL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001328

ORF Size: 1320 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_001328.2](#), [NP_001319.1](#)

RefSeq Size: 2288 bp

RefSeq ORF: 1323 bp

Locus ID: 1487

UniProt ID: [Q13363](#)

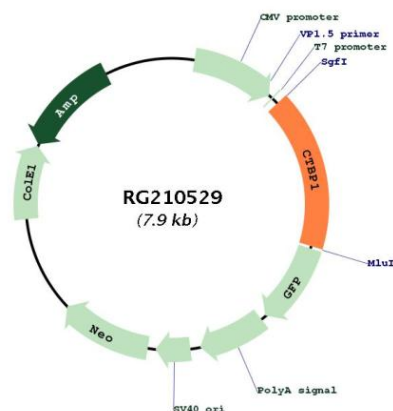
Cytogenetics: 4p16.3

Domains: 2-Hacid_DH, 2-Hacid_DH_C

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

Gene Summary: This gene encodes a protein that binds to the C-terminus of adenovirus E1A proteins. This phosphoprotein is a transcriptional repressor and may play a role during cellular proliferation. This protein and the product of a second closely related gene, CTBP2, can dimerize. Both proteins can also interact with a polycomb group protein complex which participates in regulation of gene expression during development. Alternative splicing of transcripts from this gene results in multiple transcript variants. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210529