

Product datasheet for **SC126399**

CTBP1 (NM_001012614) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTBP1 (NM_001012614) Human Untagged Clone
Tag:	Tag Free
Symbol:	CTBP1
Synonyms:	BARS; HADDTS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001012614 edited
GCGCGGCTCAGCGGCGCGGCGGAGACTCGGCACGGCGGCGCCAGGCGCAGGCGGGCGGG
CGGAGCAGCGGACGGCGCCGAGGCCGCCACGCGCCGGGCTCGCGGGCGGCAGCGCGC
CGGAGTGGTCGGGGCCCGCGCCGCTCGCGCCTCTCGATGGGCAGCTCGCACTTGCTCAA
CAAGGGCTGCCGTTGTAAGACTTTGACCCCGACGCAGGCTTCAGTGATTGCCGCGGAT
CAGAAGCCTGAGCACTTTGGCTCGAGACAATTAAGGACGTGGGATGAGGCTCCGAGACAG
GACGCGGTTCTGCCTGGGGATCCTGAAGATAAAAAGCTTTGAAAAGTCGAATTCATGGTC
GTGGAAGCTGAGCCCATATTAAGAGATGTCAGGGGTCCGACCTCCGATCATGAACGGGCC
CCTGCACCCGCGGCCCTGGTGGCATTGCTGGATGGCCGGGACTGCACAGTGAGATGCC
CATCCTGAAGGACGTGGCCACTGTGGCCTTCTGCGACGCGCAGTCCACGCAGGAGATCCA
TGAGAAGTCTGAACGAGGCTGTGGGGCCCTGATGTACCACACCATCACTCTCACCAG
GGAGGACCTGGAGAAGTTCAAAGCCCTCCGCATCATCGTCCGGATTGGCAGTGGTTTTGA
CAACATCGACATCAAGTCGGCCGGGATTTAGGCATTGCCGTCTGCAACGTGCCCGGGC
GTCTGTGGAGGAGACGGCCGACTCGACGCTGTGCCACATCCTGAACCTGTACCGCGGGC
CACCTGGCTGCACCAGGCGCTGCGGGAGGGCACACGAGTCCAGAGCGTCGAGCAGATCCG
CGAGGTGGCGTCCGGCGCTGCCAGGATCCGCGGGGAGACCTTGGGCATCATCGGACTTGG
TCGCGTGGGGCAGGCAGTGGCGCTGCGGGCCAAGGCCTTCGGCTTCAACGTGCTCTTCTA
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GCAGGACCTGCTCTTCCACAGCGACTGCGTGACCTGCACTGCGGCCCAACGAGCACAA
CCACCACCTCATCAACGACTTACCCTCAAGCAGATGAGACAAGGGGCCCTTCTGGTGAA
CACAGCCCGGGTGGCTGGTGGATGAGAAGGCGCTGGCCAGGCCCTGAAGGAGGGCCG
GATCCGCGGCGCGGCCCTGGATGTGCACGAGTCGGAACCTTCAGCTTTAGCCAGGGCCC
TCTGAAGGATGCACCCAACTCATCTGCACCCCCATGCTGCATGGTACAGCGAGCAGGC
ATCCATCGAGATGCGAGAGGAGGCGGCACGGGAGATCCGAGAGCCATCACAGGCCGGAT
CCCAGACAGCCTGAAGAAGTGTGTAACAAGGACCATCTGACAGCCGCCACCCACTGGGC
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CGCCATGTCCCTGTCCCACGGCCTGCCCCCTGTGGCCACCCGCCCCACGCCCTTCTCC
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GGCGGGAGGGGGCAGCGCTGGGCCCTCGTGTGCTTGTGCTCGTCCGTCTGTGGGCGCTC
TGCCCTGTGCTCTCGCCTTCTCGTTAAGCAGAAGAAGTCAGTAGTTATTCTCCCATGA
ACGTTCTGTCTGTGTACAGTTTTTAGAACATTACAAAGGATCTGTTTGCTTAGCTGTCA
ACAAAAAGAAAACCTGAAGGAGCATTGGAAAGTCAATTTGAGGTTTTTTTTTTGGTTTT
TTTTTTTTGTATGTTGGAACGTGCCCCAGAATGAGGCAGTTGGCAAACCTCTCAGGACA
ATGAATCCTTCCCGTTTTTCTTTTTATGCCACACAGTGCATTGTTTTTCTACCTGCTTG
TCTATTTTTAGAAATAATTTAGAAAAACAAAACAAAGGCTGTTTTTCTAATTTTGGCAT
GAACCCCCCTTGTTCAAAATGAAGACGGCATCACGAAGCAGCTCCAAAAGGAAAAGCTT
GGCGGTTGCCAGCGTGCCCGCTGCCCATCGACGCTGTCTCTGGGACGTGGAGGGTGGC
AGCGTCCCGCCTGCACCAGTGCCTGCTGATGTGGTAGGCTAGCAATATTTTGGTT
AAAATCATGTTTGTGACTGTAACCATTTGTATGAATTATTTAAAGAAATAAAAATCCTG
GAAAGAGAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001012614 unedited NNNCCGTACACCATTTGTAATACGACTCCACTATAGGCGGCCGCCATTCTGGTCGTGGAA GCTGAGCCCATATTAAGAGATGTCAGGCGTCCGACCTCCGATCATGAACGGGCCCTGCA CCCGCGGCCCTGGTGGCATTGCTGGATGGCCGGGACTGCACAGTGGAGATGCCCATCCT GAAGGACGTGGCCACTGTGGCCTTCTGCGACGCGCAGTCCACGCAGGAGATCCATGAGAA GGTCTGAACGAGGCTGTGGGGCCCTGATGTACCACACCACACTCTCACCAGGGAGGA CCTGGAGAAGTTCAAAGCCCTCCGCATCATCGTCCGGATTGGCAGTGGTTTTGACAACAT CGACATCAAGTCGGCCGGGATTTAGGCATTGCGGTCTGCAACGTGCCCGCGGCTGTGT GGAGGAGACGGCCGACTCGACGCTGTGCCACATCCTGAACCTGTACCGCGGGCCACCTG GCTGCACCAGGCCTGCGGGAGGGCACACGAGTCCAGAGCGTCGAGCAGATCCGCGAGGT GCGTCCGGCGCTGCCAGGATCCGCGGGGAGACCTTGGGCATCATCGGACTTGGTCGCGT GGGGCANGCAGTGGCGCTGCGGGCAAGGCCTTCGGCTTCAACGTGCTTCTACACCCT TANCTTGTGATGGCGTGGAGCGGGCGCTGGGGCTGCAGCGTGTGACACCCTGCANGAC CTGCTCTCCAGCGACTGCGTGACCCTGACTCGGCCTCAACGAGCACAACCACCACC TCATCAACGACTTCACCCGTAAGCAGATGAGACAGGGGGCCCTTCTGGTGACACCGNCC CGGGGTGGCCCTGGTGGATGAGAAGCGGCTGGCCCCGGCCCTGNAGGAAGGCCCGATC CCCC GCCG
Restriction Sites:	Please inquire
ACCN:	NM_001012614
Insert Size:	2500 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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:	<ol style="list-style-type: none"> 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_001012614.1 , NP_001012632.1
RefSeq Size:	2483 bp

RefSeq ORF: 1290 bp

Locus ID: 1487

UniProt ID: [Q13363](#)

Cytogenetics: 4p16.3

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]

Transcript Variant: This variant (2) has an alternate in-frame exon in the 5' coding region which results in translation initiation at a downstream ATG, compared to variant 1. The resulting protein (isoform 2) is shorter and has a distinct N-terminus, compared to isoform 1.