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Product datasheet for RC208594

CTBP1 (NM_001012614) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTBP1 (NM_001012614) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CTBP1
Synonyms:	BARS; HADDTS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208594 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAGGCGTCCGACCTCCGATCATGAACGGGCCCCTGCACCCGCGGCCCCTGGTGGCATTGCTGGATG
GCCGGGACTGCACAGTGGAGATGCCCATCCTGAAGGACGTGGCCACTGTGGCCTTCTGCGACGCGCAGTC
CACGCAGGAGATCCATGAGAAGGTCCTGAACGAGGCTGTGGGGGCCCTGATGTACCACACCATCACTCTC
ACCAGGGAGGACCTGGAGAAGTTCAAAGCCCTCCGCATCATCGTCCGGATTGGCAGTGGTTTTGACAACA
TCGACATCAAGTCGGCCGGGGATTTAGGCATTGCCGTCTGCAACGTGCCCGCGGCGTCTGTGGAGGAGAC
GGCCGACTCGACGCTGTGCCACATCCTGAACCTGTACCGGCGGGCCACCTGGCTGCACCAGGCGCTGCGG
GAGGGCACACGAGTCCAGAGCGTCGAGCAGATCCGCGAGGTGGCGTCCGGCGCTGCCAGGATCCGCGGGG
AGACCTTGGGCATCATCGGACTTGGTCGCGTGGGGCAGGCAGTGGCGCTGCGGGCCAAGGCCTTCGGCTT
CAACGTGCTCTTCTACGACCCTTACTTGTCGGATGGCGTGGAGCGGGCGCTGGGGCTGCAGCGTGTCAGC
ACCCTGCAGGACCTGCTCTTCCACAGCGACTGCGTGACCCTGCACTGCGGCCTCAACGAGCACAACCACC
ACCTCATCAACGACTTCACCGTCAAGCAGATGAGACAAGGGGCCTTCCTGGTGAACACAGCCCGGGGTGG
CCTGGTGGATGAGAAGGCGCTGGCCCAGGCCCTGAAGGAGGGCCGGATCCGCGGCGCGGCCCTGGATGTG
CACGAGTCGGAACCCTTCAGCTTTAGCCAGGGCCCTCTGAAGGATGCACCCAACCTCATCTGCACCCCCC
ATGCTGCATGGTACAGCGAGCAGGCATCCATCGAGATGCGAGAGGAGGCGGCACGGGAGATCCGCAGAGC
CATCACAGGCCGGATCCCAGACAGCCTGAAGAACTGTGTCAACAAGGACCATCTGACAGCCGCCACCCAC
TGGGCCAGCATGGACCCCGCCGTCGTGCACCCTGAGCTCAATGGGGCTGCCTATAGGTACCCTCCGGGCG
TGGTGGGCGTGGCCCCCACTGGCATCCCAGCTGCTGTGGAAGGTATCGTCCCCAGCGCCATGTCCCTGTC
CCACGGCCTGCCCCCTGTGGCCCACCCGCCCCACGCCCCTTCTCCTGGCCAAACCGTCAAGCCCGAGGCG
GATAGAGACCACGCCAGTGACCAGTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208594 protein sequence
Red=Cloning site Green=Tags(s)

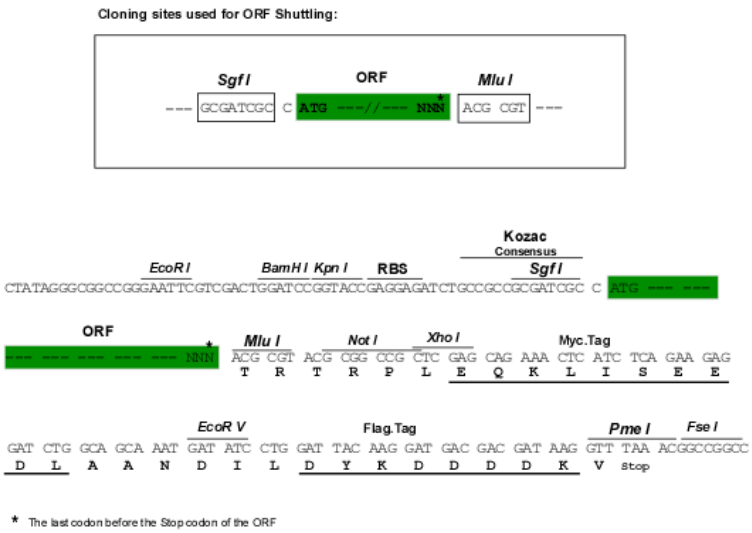
MSGVRPPIMNGPLHPRPLVALLDGRDCTVEMPILKDVATVAFCDAQSTQEIHEKVLNEAVGALMYHTITL
TREDLEKFKALRIIVRIGSGFDNIDIKSAGDLGIAVCNVPAASVEETADSTLCHILNLYRRATWLHQALR
EGTRVQSVEQIREVASGAARIRGETLGIIGLGRVGQAVALRAKAFGFNVLFYDPYLSDGVERALGLQRVS
TLQDLLFHSDCVTLHCGLNEHNHHLINDFTVKQMRQGAFLVNTARGGLVDEKALAQALKEGRIRGAALDV
HESEPFSFSQGPLKDAPNLICTPHAAWYSEQASIEMREEAAREIRRAITGRIPDSLKNCVNKDHLTAATH
WASMDPAVVHPELNGAAYRYPPGVVGVAPTGIPAAVEGIVPSAMSLSHGLPPVAHPPHAPSPGQTVKPEA
DRDHASDQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6246_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001012614

ORF Size: 1287 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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

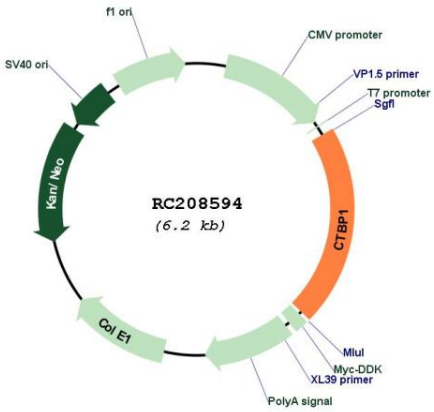
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.

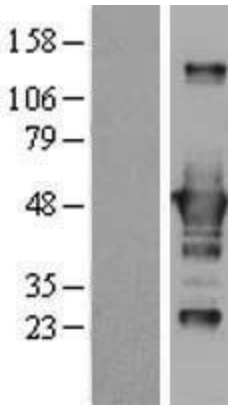
RefSeq: NM_001012614.2

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
MW:	46.4 kDa
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]

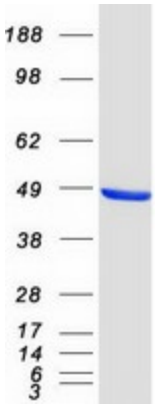
Product images:



Circular map for RC208594



Western blot validation of overexpression lysate (Cat# [LY422883]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208594 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CTBP1 protein (Cat# [TP308594]). The protein was produced from HEK293T cells transfected with CTBP1 cDNA clone (Cat# RC208594) using MegaTran 2.0 (Cat# [TT210002]).