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Product datasheet for RC213339

CTBP2 (NM_001083914) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTBP2 (NM_001083914) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CTBP2
Synonyms:	C-terminal binding protein 2; OTTHUMP00000020699; OTTHUMP00000020701; ribeye
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

View online »

ORF Nucleotide Sequence:

>RC213339 representing NM_001083914
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCCTTGTGGATAAGCACAAAGTCAAGAGACAGCGATTGGACAGAATTTGTGAAGGTATCCGCCCCC
AGATCATGAACGGCCCCCTGCACCCCCGCCCCCTGGTGGCGCTGCTGGACGGCCGCGACTGCACTGTGGA
GATGCCCATCCTGAAGGACCTGGCCACTGTGGCCTTCTGTGACGCGCAGTCGACGCAGGAAATCCACGAG
AAGGTTCTAAACGAAGCCGTGGGCGCCATGATGTACCACACCATCACCCTCACCAGGGAGGACCTGGAGA
AGTTCAAGGCCCTGAGAGTGATCGTGCGGATAGGCAGTGGCTATGACAACGTGGACATCAAGGCTGCCGG
CGAGCTCGGAATTGCCGTGTGCAACATCCCGTCTGCAGCCGTGGAAGAGACAGCGGACTCTACCATCTGC
CACATCCTCAACCTGTACCGGAGGAACACGTGGCTGTACCAGGCACTGCGGGAAGGCACGCGGGTTCAGA
GCGTGGAGCAGATCCGCGAGGTGGCCTCGGGAGCGGCCCGCATCCGTGGGGAGACGCTGGGCCTCATTGG
CTTTGGTCGCACGGGGCAGGCGGTTGCAGTTCGAGCCAAGGCCTTTGGATTCAGCGTCATATTTTATGAC
CCCTACTTGCAGGATGGGATCGAGCGGTCCCTGGGCGTGCAGAGGGTCTACACCCTGCAGGATTTGCTGT
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CATAAAGCAGATGAGGCAGGGAGCATTCCTTGTGAACGCAGCCCGTGGCGGCCTGGTGGACGAGAAAGCC
TTAGCACAAGCCCTCAAGGAGGGCAGGATACGAGGGGCAGCCCTCGACGTGCATGAGTCAGAGCCCTTCA
GCTTTGCTCAGGGTCCGTTGAAAGATGCCCCGAATCTCATCTGCACTCCTCACACTGCCTGGTACAGTGA
GCAGGCGTCACTGGAGATGAGGGAGGCAGCTGCCACCGAGATCCGCCGAGCCATCACAGGTCGCATCCCA
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AAGCAATTCATCCTGAGCTCAATGGTGCCACATACAGATATCCGCCAGGCATCGTGGGTGTGGCTCCAGG
AGGACTTCCTGCAGCCATGGAAGGGATCATCCCTGGAGGCATCCCAGTGACTCACAACCTCCCGACAGTG
GCACATCCTTCCCAAGCGCCCTCTCCCAACCAGCCCACAAAACACGGGGACAATCGAGAGCACCCCAACG
AGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213339 representing NM_001083914
Red=Cloning site Green=Tags(s)

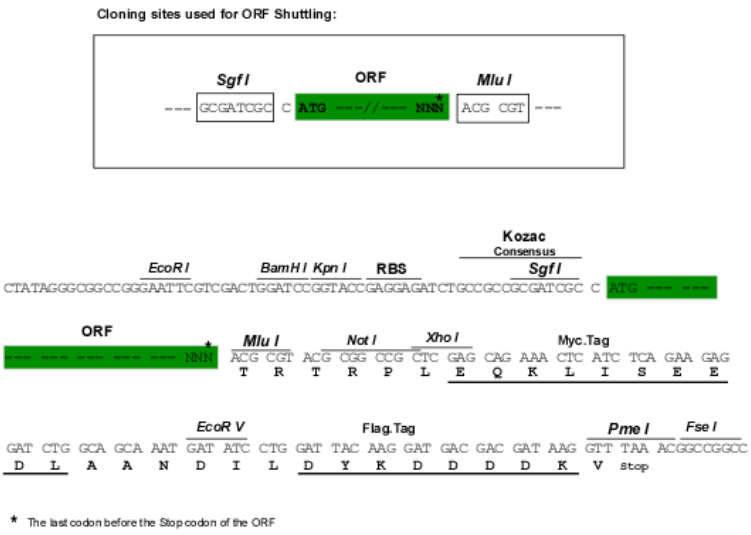
MALVDKHKVKRQRLDRICEGIRPQIMNGPLHPRPLVALLDGRDCTVEMPILKDLATVAFCDAQSTQEIHE
KVLNEAVGAMMYHTITLTREDLEKFKALRVIVRIGSGYDNVDIKAAGELGIAVCNIPSAAVEETADSTIC
HILNLYRRNTWLYQALREGTRVQSVEQIREVASGAARIRGETLGLIGFGRTGQAVAVRAKAFGFSVIFYD
PYLQDGIERSLGVQRVYTLQDLLYQSDCVSLHCNLNEHNHHLINDFTIKQMRQGAFLVNAARGGLVDEKA
LAQALKEGRIRGAALDVHESEPFSFAQGPLKDAPNLICTPHTAWYSEQASLEMREAAATEIRRAITGRIP
ESLRNCVNKEFFVTSAPWSVIDQQAIHPELNGATYRYPPGIVGVAPGGLPAAMEGIIPGGIPVTHNLPTV
AHPSQAPSPNQPTKHGDNREHPNEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

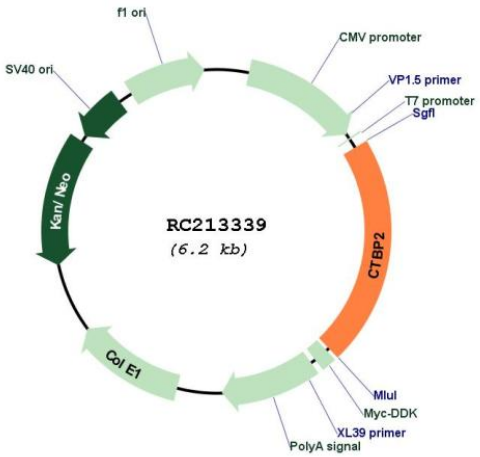
Chromatograms: https://cdn.origene.com/chromatograms/mk6705_e12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



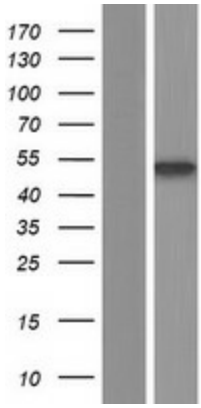
Plasmid Map:



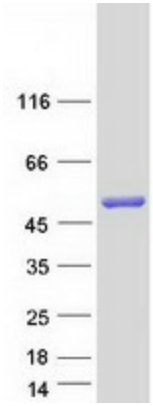
ACCN:	NM_001083914
ORF Size:	1335 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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.
RefSeq:	NM_001083914.3
RefSeq Size:	3441 bp

RefSeq ORF:	1338 bp
Locus ID:	1488
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:	48.8 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+ binding domain similar to NAD+-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:



Western blot validation of overexpression lysate (Cat# [LY420003]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC224861] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CTBP2 protein (Cat# [TP313339]). The protein was produced from HEK293T cells transfected with CTBP2 cDNA clone (Cat# RC213339) using MegaTran 2.0 (Cat# [TT210002]).