

Product datasheet for **RG213339**

CTBP2 (NM_001083914) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CTBP2 (NM_001083914) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CTBP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213339 representing NM_001083914 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCTTGTGGATAAGCACAAAGTCAAGAGACAGCGATTGGACAGAATTTGTGAAGGTATCCGCCCC
AGATCATGAACGGCCCCCTGCACCCCCGCCCTGGTGGCGCTGCTGGACGGCCGCGACTGCACTGTGGA
GATGCCCATCTGAAGGACCTGGCCACTGTGGCCTTCTGTGACCGCAGTCGACGCAGGAAATCCACGAG
AAGTTCTAAACGAAGCCGTGGGCGCCATGATGTACCACACCATCACCTCACCAGGGAGGACCTGGAGA
AGTTCAAGGCCCTGAGAGTGATCGTGGGATAGCGAGTGGCTATGACAACGTGGACATCAAGGCTGCCGG
CGAGCTCGGAATTGCCGTGTGCAACATCCCGTCTGCAGCGGTGGAAGAGACAGCGGACTCTACCATCTGC
CACATCTCAACCTGTACCGGAGGAACACGTGGCTGTACCAGGCACTGCCGGAAGGCACGCGGGTTCAGA
GCGTGGAGCAGATCCGCGAGGTGGCCTCGGAGCGGCCCGCATCCGTGGGAGACGCTGGGCCTCATTGG
CTTTGGTCGACGGGCGAGGCGTTGCAGTTCGAGCCAAGGCCTTTGGATTCAGCGTCATATTTTATGAC
CCCTACTTGCAGGATGGGATCGAGCGGTCCCTGGGCGTGCAGAGGGTCTACACCTGCAGGATTTGCTGT
ATCAGAGCGACTGCGTCTCCTTGCCTGCAATCTCAACGAACATAACCACCCTCATCAATGACTTTAC
CATAAAGCAGATGAGGCAGGGAGCATTCTTGTGAACGCAGCCCCGTGGCGCCTGGTGGACGAGAAAGCC
TTAGCACAAAGCCCTCAAGGAGGGCAGGATACGAGGGGCGCCCTCGACGTGCATGAGTCAGAGCCCTTCA
GCTTTGCTCAGGGTCCGTTGAAAGATGCCCGAATCTCATCTGCACTCCTCACACTGCCTGGTACAGTGA
GCAGGCGTCACTGGAGATGAGGGAGGCAGCTGCCACCGAGATCCGCCGAGCCATCACAGGTCGCATCCCA
GAAAGCTTAAGAAATTGTGTGAACAAGGAATCTTTGTGCATCAGCGCCTTGGTCAAGTAAAGACCAGC
AAGCAATTCATCTGAGCTCAATGGTGCCACATACAGATATCCGCCAGGCATCGTGGGTGTGGCTCCAGG
AGGACTTCTGCAGCCATGGAAGGGATCATCCCTGGAGGCATCCCAGTGACTCACAACCTCCCGACAGTG
GCACATCTTCCCAAGCGCCCTCTCCAACCGCCACAAAACACGGGGACAATCGAGAGACCCCAACG
AGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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_001083914.3](#)

RefSeq Size: 3441 bp

RefSeq ORF: 1338 bp

Locus ID: 1488

UniProt ID: [P56545](#)

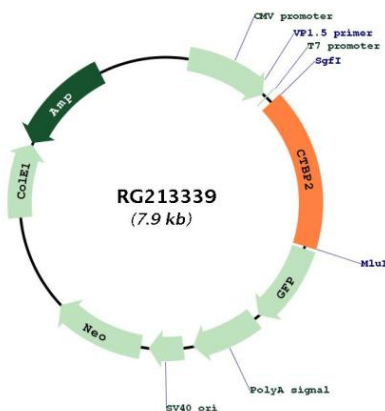
Cytogenetics: 10q26.13

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

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:



Circular map for RG213339