

## Product datasheet for **MG204870**

### Cdk10 (BC017131) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk10 (BC017131) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdk10
Synonyms:	BC017131
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204870 representing BC017131 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

CTGGGAAGATGCCGAAGCGTTAAGGAGTTTGAGAAGCTGAACCGGATTGGCGAGGGCACCTATGGCATCG  
TGTATCGGGCCAGGGATACCCAGACAGATGAAATTGTCGCCCTGAAGAAGGTGCGGATGGACAAAGAGAA  
GGATGGCATCCCCATCAGCAGCCTGCGTGAGATCACACTGCTCTTGCCTCCGCCATCCAACATTGTG  
GAGCTGAAGGAGGTGGTTGTGGCAACCACCTGGAGAGCATCTTCTGGTTCATGGTTACTGCGAACAAG  
ATCTGGCCAGCCTATTGAAAAATATGCCAACACCTTCTCGGAGGCCAGGTTAAATGCATCATGCTACA  
GGTGTCTCGTGGCCTTACGTACCTGCACAGGAACCTCATCATCCACAGGGACCTGAAGGTGCCAATTG  
CTCATGACAGACAAGGGCTGTGTAAGACAGCTGATTTTGGCCTGGCTCGGGCCTATGGTGTCCAGTAA  
AGCCAATGACTCCCAAGGTTGTTACCCTCTGGTACCGAGCCCCAGAGCTGCTGCTTGGAACTACCACCCA  
GACTACCAGCATTGACATGTGGGCTGTGGCTGCATCCTGGCAGAGCTGCTGGCCATAAGCCCCCTCTC  
CCTGGCACTTCCGAGATCCACCAGATCGACTTGATTGTACAGCTGTTGGGGACACCGAGTGAGAATATCT  
GGCCGGGTTTCTCCAAGCTGCCGCTGGCCGGCCAGTACAGCTTGAGGAAACAGCCCTATAACAACCTCAA  
GCACAAGTTCCCGTGGCTCTCAGAGGCCGACTCCGTCTGCTCAACTTCTTTCATGTATGACCCTAAG  
AAAAGGGCAACCTCGGGAGACTGCCTGGAGAGCTCCTACTTCAAGGAGAAGCCCCGCTGCTGAACCGG  
AGCTCATGCCTACCTTCCCCACCACCGCAATAAGCGTGCTGCCCCAGCTGCCGCTGAAGGGCAGAGCAA  
ACGATGCCGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204870 representing BC017131  
Red=Cloning site Green=Tags(s)

LGRCRSVKEFEKLNRIEGEGTYGIVYRARDTQTDEIVALKKVRMDKEKDGIPISLREITLLLRLRHPNIV  
 ELKEVVGNHLESIFLVMGYCEQDLASLLENMPTPFSEAQVKCIMLQVLRGLQYLHRNFI IHRDLKVSNL  
 LMTDKGCVKTADFLARAYGVPVKPMTPKVVTLWYRAPELLLGTTTQTTSIDMWAVGCILAELLAHKPLL  
 PGTSEIHQIDLIVQLLGTSPENIWPGFSKPLPLAGQYSLRKQPYNNLKHKFPWLSEAGLRLLNLFMYDPK  
 KRATSGDCLLESSYFKEKPLPCEPELMPFPHHRNKRAAPAAAEGQSKRCRP

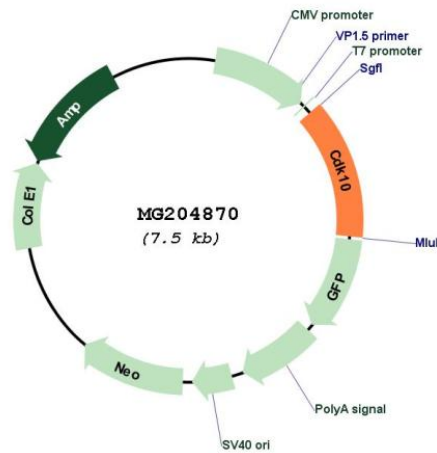
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC017131

**ORF Size:** 995 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC017131</a> , <a href="#">AAH17131</a>
<b>RefSeq Size:</b>	1599 bp
<b>RefSeq ORF:</b>	995 bp
<b>Locus ID:</b>	234854
<b>Cytogenetics:</b>	8 E1
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the CDK (cyclin-dependent kinase) subfamily of the Ser/Thr protein kinase family. The CDK subfamily members are highly similar to the gene products of <i>S. cerevisiae</i> cdc28, and <i>S. pombe</i> cdc2, and are known to be essential for cell cycle progression. The human ortholog has been shown to play a role in cellular proliferation. Multiple transcript variants encoding different isoforms have been found for this gene. A related pseudogene exists on chromosome 1. [provided by RefSeq, Jan 2010]