

## Product datasheet for **MG217298**

### Cdk10 (NM\_194446) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk10 (NM_194446) 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:	>MG217298 representing NM_194446 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGAGGTGGACCTGGAGTCGGATCAGATCCGATTGAAGTGTATCCGTAAGGAAGGTTTCTTCACCG  
TGCCTCCAGAACACAGGCTGGGAAGATGCCAAGCGTTAAGGAGTTTGAGAAGCTGAACCGGATTGGCGA  
GGGCACCTATGGCATCGTGTATCGGGCCAGGGATACCCAGACAGATGAAATTGTCGCCCTGAAGAAGGTG  
CGGATGGACAAAGAGAAGGATGGCATCCCCATCAGCAGCCTGCGTGAGATCACACTGCTCTTGCGTCTCC  
GCCATCCAACATTTGGAGCTGAAGGAGTGGTTGTGGGCAACCACCTGGAGAGCATCTTCTGGTGCAT  
GGGTTACTGCGAACAAGATCTGGCCAGCCTATTGGAAAATATGCCAACCCCTTCTCGGAGGCCAGGTT  
AAATGCATCATGTACAGGTGCTTCGTGGCCTTCAGTACCTGCACAGGAACCTTCATCATCCACAGGGACC  
TGAAGGTGTTCAACTTGCTCATGACAGACAAGGGCTGTGTAAGACAGCTGATTTTGGCCTGGCTCGGGC  
CTATGGTGTCCAGTAAAGCCAATGACTCCAAGGTTGTACCCTCTGGTACCGAGCCCCAGAGCTGCTG  
CTTGGAACTACCACCCAGACTACCAGCATTGACATGTGGGCTGTGCGGCTGCATCCTGGCAGAGCTGCTGG  
CCCATAAGCCCTCCTCCCTGGCACTCCGAGATCCACCAGATCGACTTGATTGTACAGCTGTTGGGGAC  
ACCGAGTGAGAATATCTGGCCGGTTTTCTCAAGCTGCCGCTGGCCGGCCAGTACAGCTTGAGGAAACAG  
CCCTATAACAACCTCAAGCACAAGTTCCTGGCTCTCAGAGGCCGACTCCGCTGCTCAACTTCTCTCT  
TCATGTATGACCCTAAGAAAAGGGCAACCTCGGGAGACTGCCTGGAGAGCTCCTACTTCAAGGAGAAGCC  
CCTGCCCTGTGAACCGGAGCTCATGCTACCTTCCCCACCACCGCAATAAGCGTGTGCCCCAGCTGCC  
GCTGAAGGGCAGAGCAAACGATGCCGGCC

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >MG217298 representing NM\_194446  
 Red=Cloning site Green=Tags(s)

MAEVDLESDQIRLKCIRKEGFFTPPEHRLGRCRSVKEFEKLNRIEGEGTYGIVYRARDTQTDEIVALKKV  
 RMDKEKDGIPISLREITLLLRHPNIVELKEVVVGNHLESIFLVMGYCEQDLASLLENMPTPFSEAQV  
 KCIMLQVLRGLQYLHRNFIHRDLKVSNLLMTDKGCVKTAADFGLARAYGVPVKPMPKVVTLWYRAPELL  
 LGTTTQTTSIDMWAVGCILAELLAHKPLLPGTSEIHQIDLIVQLLGTPSENIWPGF SKLPLAGQYSLRQ  
 PYNNLKHKFPWLSEAGLRLLNLFMYDPKKRATSGDCLESSYFKEKPLPCEPELMPTFPHHRNKRAAPAA  
 AEGQSKRCRP

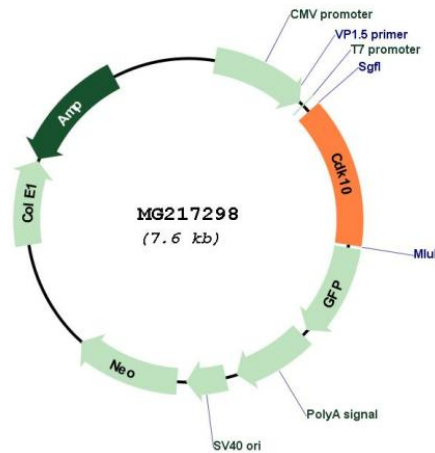
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_194446

<b>ORF Size:</b>	1080 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="#">NM_194446.2</a> , <a href="#">NP_919428.1</a>
<b>RefSeq Size:</b>	1661 bp
<b>RefSeq ORF:</b>	1083 bp
<b>Locus ID:</b>	234854
<b>UniProt ID:</b>	<a href="#">Q3UMM4</a>
<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]