

## Product datasheet for **RG210780**

### CDKL2 (NM\_003948) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CDKL2 (NM_003948) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDKL2
Synonyms:	KKIAMRE; P56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG210780 representing NM\_003948  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAAAATATGAAACCTGGGTTTGGTTGGAGAAGGGAGTTATGGAATGGTGTGATGAAGTGTAGGAATA  
 AAGATACTGGAAGAATTGTGCCATAAAGAAGTTCTTAGAAAGTGACGATGACAAAATGGTTAAAAAGAT  
 TGCAATGCGAGAAATCAAGTTACTAAAGCAACTTAGGCATGAAAACCTGGTGAATCTCTTGGAAAGTGTG  
 AAGAAAAAAAACGATGGTACCTAGTCTTTGAATTTGTTGACCACACAATTCTTGATGACTTGGAGCTCT  
 TTCCAAATGGACTAGACTACCAAGTAGTTCAAAGTATTTGTTTCAGATTATTAATGGAATTGGATTTTG  
 TCACAGTCACAATATCATAACACAGAGATATAAAGCCAGAGAATATATTAGTCTCCAGTCTGGCGTTGTC  
 AAGCTATGCGATTTTGGATTTGCGGAACATTGGCAGCTCCTGGGGAGGTTTATACTGATTATGTGGCAA  
 CCCGATGGTACAGAGCTCCAGAACTATTGGTTGGTGTGATGTCAAGTATGGCAAGGCTGTTGATGTGTGGC  
 CATTGGTTGTCTGTAAGTAAATGTTTCAATGGGGGAACCCCTATTTCTGGAGATTCTGATATTGATCAG  
 CTATATCATATTATGATGTGTTAGGTAATCTAATTCCAAGGCATCAGGAGCTTTTTAATAAAAAATCCTG  
 TGTTTGTCTGGAGTAAGGTTGCCTGAAATCAAGGAAAGAGAACCTCTTGAAGACGCTATCCTAAGCTCTC  
 TGAAGTGGTGATAGATTTAGCAAAGAAATGCTTACATATTGACCCCGACAAAAGACCCCTTCTGTGCTGAG  
 CTCCTACACCATGATTTCTTTCAAATGGATGGATTTGCTGAGAGGTTTTCCCAAGAAGTACAGTAAAAG  
 TACAGAAAAGATGCCAGAAATGTTCTTTATCTAAAAATCCCAAAACAGAAAAGGAAAAAGAAAAAGA  
 TGATTCCTTAGTTGAAGAAAAGAAAACACTTGTGGTACAGGATACCAATGCTGATCCCAAAATTAAGGAT  
 TATAAACTATTTAAAATAAAAGGCTCAAAAATTGATGGAGAAAAGCTGAAAAGGCAATAGAGCTTCAA  
 ATGCCAGCTGTCTCCATGACAGTAGGACAAGCCACAACAAAATAGTGCCTTCAACAAGCCTCAAAGCTG  
 CAGCAATGTGAGCGTGGACCACACAAGGAATCCAAGCGTGGCAATCCCCCACTTACACACAATCTTTCT  
 GCAGTTGCTCCAGCATTAAATCTGGAATGGGACTGAGACTATACCAATTCAGGTTACAGAGTGGATG  
 AGAAAATAAGAAGTGTCTATTCCATTTGTTAAACCGAACAGACATTCCCATCAGGCATTTATAACAT  
 TAATGTGACCACATTAGTATCAGGACCTCCCCTGTGAGATGATTCAGGGGCTGATTTGCCTCAAATGGAA  
 CACCAGCAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG210780 representing NM\_003948  
 Red=Cloning site Green=Tags(s)

MEKYENLGLVGEYSYGMVMKCRNKDTGRIVAIAIKKFLESDDDKMVKKIAMREIKLLKQLRHENLVNLLVVC  
 KKKKRWLVFEFVDHTILDLELFPNGLDYQVVQKYLFIINGIGFCHSHNIIHRDIKPENILVSQSGVV  
 KLCDGFGFARTLAAPGEVYTDYVATRWYRAPELLVGDVKYKAVDVWAIGCLVTEMFMGEP LFPGDSIDQ  
 LYHIMMCLGNLIPRHQELFNKNPVFAGVRLPEIKEREPLERRYPKLSEVVIDLAKKCLHIDPKRPFCAE  
 LLHHDFFQMDGFAERFSQELQLKVQKDARNVLSKKSQNRKKEKEDDSLVEERKTLVVQD TNADPKIKD  
 YKLFKIKGSKIDGEKAEKGNRASNASCLHDSRTSHNKIVPSTSLKDCSNVSDHTRNPSVAIPPLTHNLS  
 AVAPSINSGMGTETIPIQGYRVDEKTKKCSIPFVKPNRHSPSGIYNINVTTLVSGPPLSDDSGADLPQME  
 HQH

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_003948

**ORF Size:** 1479 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.

**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\\_003948.5](#)

**RefSeq Size:** 1993 bp

**RefSeq ORF:** 1482 bp

**Locus ID:** 8999

**UniProt ID:** [Q92772](#)

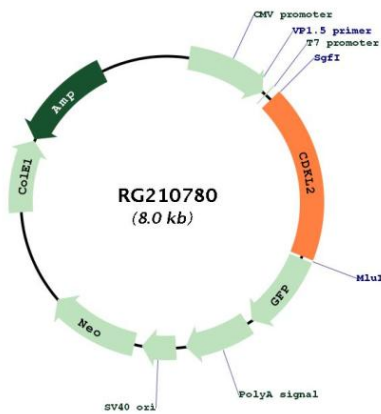
**Cytogenetics:** 4q21.1

**Domains:** pkinase, TyrKc, S\_TKc

**Protein Families:** Druggable Genome, Protein Kinase

**Gene Summary:** This gene product is a member of a large family of CDC2-related serine/threonine protein kinases. It accumulates primarily in the cytoplasm, with lower levels in the nucleus. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG210780