

## Product datasheet for **MG223123**

### **Cdk14 (NM\_011074) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdk14 (NM_011074) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdk14
Synonyms:	mKIAA0834; Pftk1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG223123 representing NM\_011074  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGCGACCTCATTGAACCGCAGCCGGCCGAGAAGATCGGCAAGATGAAGAAGTTGAGGAGAACTTTGT  
 CCGAGAGTTTCAGCCGCATCGCTCTGAAGAAAGAGGACACCACCTTTGATGAGATATGTGTCACAAAGAT  
 GTCTACCCGGAAGTCCAGGGGACAGATTCAGTGATCAAGCACCTGGACACAATTCCTGAAGACAAGAAA  
 GTCAGGGTTCCAGAGGACGCAGAGCACTTTGACCCATTTGAGAAACCAGCCAACCAAGTCAAAGGGTCC  
 ATTCTGAGAAACAATGCATGCATTAACCTTAAATCCTCCTCTGCTGGCAAAGAGTCACTAAAGTTCCGGC  
 GCACTCCAGCCCCAGCTCGCAACGAGTCCAAATTTGGAAAAGCTGACTCATACGAAAACTGGAAAA  
 CTGGGGGAAGGATCTTATGCAACAGTGTACAAAGGAAAAGCAAAGTGAATGGGAAGCTGGTGGCTCTAA  
 AGGTGATCCGGCTGCAGGAAGAAGAGGGCACACCTTTACAGCCATCAGGGAAGCTTCCCTGTTGAAAGG  
 ACTAAAGCACGCCAACATCGTGTGCTTACGACATCATCCACTAAGGAAACCCTGACCTTGTCTTT  
 GAATACGTGCACACTGATTTATGTCAGTACATGGACAAGCACCTGGAGGACTCCATCCAGATAATGTGA  
 AGTTGTTTTTATTCAGCTGCTGCGAGGACTGTCTTACATCCACCAGCGTTATATTTTGCACAGAGACCT  
 GAAACCGCAGAACCTTCTCATCAGCGATACGGGGAGTTGAAGCTGGCAGATTTCCGGTCTGGCAAGAGCA  
 AAATCCGTCCTAGCCACACATACTCCAATGAAGTGGTTACCTTGTGGTACAGACCTCCAGATGTTCTTC  
 TGGGCTCTACAGAATATCCACCTGCCTTGACATGTGGGGAGTTGGCTGTATCTTCGTTGAGATGATCCA  
 AGGAGTTGCTGCGTTTCCAGGAATGAAAGACATTCAGGATCAACTGAACGGATATTTCTGGTCTTGGA  
 ACACCGAATGAGGACACGTGGCCTGGAGTTCATCTTTACCACATTTAAGCCAGAACGCTTTACCGTGT  
 ACAGCTCTAAAAGCCTTAGACAAGCATGGAATAAGCTCAGCTATGTAATCATGCTGAAGACTTGGCCTC  
 CAAGCTTCTCCAGTGTTCACCAAGAACAGGCTATCAGCACAGGCCGCTTGGAGCCATGAGTATTTCCAGC  
 GATCTGCCTCCACGGCTATGGGAGCTGACTGATATGCTTCTATTTTTACCGTCCAAATGTGAGATTGC  
 AACCGAAGCTGGAGAGAGCATGAGGGCCTTTGGAAAAACAATAGTTATGGGAAAAGCCTATCGAACAG  
 CAAACAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG223123 representing NM\_011074  
 Red=Cloning site Green=Tags(s)

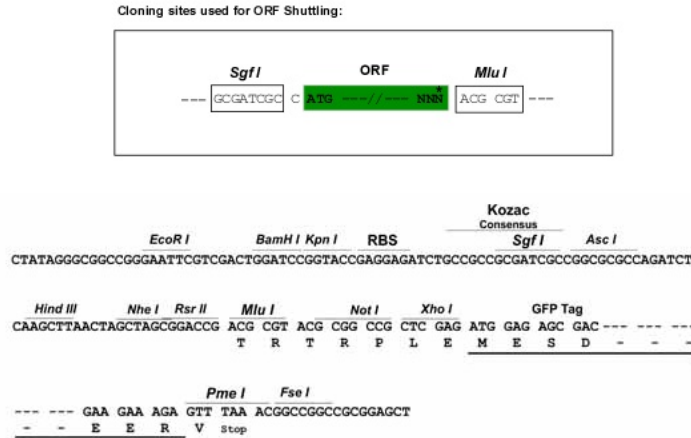
MCDLIEPQPAEKIGMKMLRRTLSEFSRIALKKEDTTFDEICVTMSTRNCQGTDSVIKHLDTIPEDKK  
 VRVQRTQSTFDPFEPANQVKRVHSENNACINFKSSSAGKESPKVRRHSSPSSPTSPKFGKADSYEKLEK  
 LGEYSYATVYKSKVNGKLVALKVIRLQEEEGTPFTAIREASLLKGLKHANIVLLHDIHTKETLTLVF  
 EYVHTDLCQYMDKHPGGLHPDNVKLFLFQLLRGLSYIHQRYILHRDLKPQNLLISDTGELKLADFLARA  
 KSVPSHTYSNEVTLWYRPPDVLGSTEYSTCLDMWVGCI FVEMI QGVAAFPGMKDIQDQLERIFLVLG  
 TPNEDTWPGVHSLPHFKPERFTVYSSKSLRQAWNKLSYVNHAE DLASKLLQCSPKNRLSAQAALSHEYFS  
 DLPPRLWELTDMSSIFTVPNVRLQPEAGESMRAF GKNN SYGKLSLSNSKH

**TRTRPLE** - GFP Tag - V

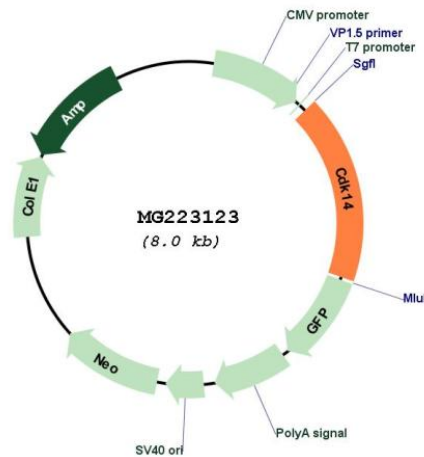
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_011074

ORF Size: 1407 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\\_011074.3](#), [NP\\_035204.2](#)

**RefSeq Size:** 4911 bp

**RefSeq ORF:** 1410 bp

**Locus ID:** 18647

**UniProt ID:** [O35495](#)

**Cytogenetics:** 5 2.61 cM

**Gene Summary:** Serine/threonine-protein kinase involved in the control of the eukaryotic cell cycle, whose activity is controlled by an associated cyclin. Acts as a cell-cycle regulator of Wnt signaling pathway during G2/M phase by mediating the phosphorylation of LRP6 at 'Ser-1490', leading to the activation of the Wnt signaling pathway. Acts as a regulator of cell cycle progression and cell proliferation via its interaction with CCDN3. Phosphorylates RB1 in vitro, however the relevance of such result remains to be confirmed in vivo. May also play a role in meiosis, neuron differentiation and may indirectly act as a negative regulator of insulin-responsive glucose transport (By similarity).[UniProtKB/Swiss-Prot Function]