

Product datasheet for **MR223123**

Cdk14 (NM_011074) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk14 (NM_011074) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdk14
Synonyms:	mKIAA0834; Pftk1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR223123 representing NM_011074
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGCGACCTCATTGAACCGCAGCCGGCCGAGAAGATCGGCAAGATGAAGAAGTTGAGGAGAACTTTGT
 CCGAGAGTTTCAGCCGCATCGCTCTGAAGAAAGAGGACACCACCTTTGATGAGATATGTGTCACAAAGAT
 GTCTACCCGGAAGTCCAGGGGACAGATTCAGTGATCAAGCACCTGGACACAATTCCTGAAGACAAGAAA
 GTCAGGGTTTCAGAGGACGACAGCACTTTGACCCATTTGAGAAACCAGCCAACCAAGTCAAAGGGTCC
 ATTCTGAGAACAAATGCATGCATTAACCTTAAATCCTCCTCTGCTGGCAAAGAGTACCTAAAGTTGCGCG
 GCACTCCAGCCCCAGCTCGCAACGAGTCCAAATTTGGAAAAGCTGACTCATACGAAAACTGGAAAA
 CTGGGGGAAGGATCTTATGCAACAGTGTACAAAGGAAAAGCAAAGTGAATGGGAAGCTGGTGGCTCTAA
 AGGTGATCCGGCTGCAGGAAGAAGAGGGCACACCTTTACAGCCATCAGGGAAGCTTCCCTGTTGAAAGG
 ACTAAAGCACGCCAACATCGTGTGCTTACGACATCATCCACTAAGGAAACCCTGACCTTGTCTTT
 GAATACGTGCACACTGATTTATGTCAGTACATGGACAAGCACCTGGAGGACTCCATCCAGATAATGTGA
 AGTTGTTTTTATTCAGCTGCTGCGAGGACTGTCTTACATCCACCAGCGTTATATTTTGCACAGAGACCT
 GAAACCGCAGAACCTTCTCATCAGCGATACGGGGAGTTGAAGCTGGCAGATTTCCGGTCTGGCAAGAGCA
 AAATCCGTCCTAGCCACACATACTCCAATGAAGTGGTTACCTTGTGGTACAGACCTCCAGATGTCTTTC
 TGGGCTTACAGAATATCCACCTGCCTTGACATGTGGGGAGTTGGCTGTATCTTCGTTGAGATGATCCA
 AGGAGTTGCTGCGTTTCCAGGAATGAAAGACATTGAGGATCAACTGAACGGATATTTCTGGTCTTGGGA
 ACACCGAATGAGGACACGTGGCCTGGAGTTCATCTTTACCACATTTAAGCCAGAACGCTTTACCGTGT
 ACAGCTCTAAAAGCCTTAGACAAGCATGGAATAAGCTCAGCTATGTAATCATGCTGAAGACTTGGCCTC
 CAAGCTTCTCCAGTGTTCCTCCAAAGAACAGGCTATCAGCACAGGCCGCTTGGCCATGAGTATTTTCAGC
 GATCTGCCTCCACGGCTATGGGAGCTGACTGATATGTCTTCTATTTTACCCTCCAAATGTGAGATTGC
 AACCGAAGCTGGAGAGAGCATGAGGGCCTTTGGAAAAACAATAGTTATGGGAAAAGCCTATCGAACAG
 CAAACAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223123 representing NM_011074
 Red=Cloning site Green=Tags(s)

MCDLIEPQPAEKIGKMKKLRRRLSEFSRIALKKEDTTFDEICVTKMSTRNCQGTDSVIKHLDTIPEDKK
 VRVQRTQSTFDPFKPNQVQKRVHSENNACINFKSSSAGKESPKVRRHSSPSSPTSPKFGKADSYEKLEK
 LGEYSYATVYKSKVNGKLVALKVIRLQEEEGTPFTAIREASLLKGLKHANIVLLHDIHTKETLTLVF
 EYVHTDLCQYMDKHPGGLHPDNVKLFLFQLLRGLSYIHQRYILHRDLKPQNLLISDTGELKLADFLARA
 KSVPSHTYSNEVVTLYWRPPDVLLGSTYSTCLDMWVGCFVEMIQGVAAFPGMKDIQDQLERIFVLV
 TPNETWPGVHSLPHFKPERFTVYSSKSLRQAWNKL SYVNHAEDLASKLLQCSPKNRLSAQAAL SHEYFS
 DLPPRLWELTDMSSIFTVPNVRLOPEAGESMRAF GKNNSYGKSLSNSKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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

MW: 53.4 kDa

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]