

Product datasheet for **RR210857**

Cdk4 (NM_053593) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk4 (NM_053593) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdk4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210857 representing NM_053593 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTACCACTCGATATGAACCCGTGGCTGAAATTGGTGTGGTGCCTATGGGACGGTGTACAAAGCCC
GAGATCCCCACAGTGGCCACTTTGTGGCTCTCAAGAGTGTGAGAGTTCTAATGGAGGAGCAGCTGGAGG
GGCCTTCCCGTCAGCACAGTTCGTGAGGTGGCCTTGTTAAGAAGGCTGGAGGCCTTTGAACATCCCAAT
GTTGTACGGCTGATGGATGTCTGTGCTACTTCCGAACTGATCGGGACATCAAGGTCACCTTAGTGTTTG
AGCATATAGACCAGGACCTACGGACATACTGGACAAAGCACCTCCGCCGGGCTTGCCTGTTGAGACCAT
TAAGGATCTGATGCGCCAGTTTCTAAGCGGCCTAGATTTCTTCATGCAAAGTGCATTGTTACCGGGAC
CTGAAGCCAGAGAACATTCTAGTGACAAGTAATGGGACAGTTAAGCTGGCCGACTTTGGCCTAGCCAGAA
TCTACAGTACCAGATGGCCCTCACGCCTGTGGTTGTTACGCTCTGGTACCGGGCTCCTGAAGTTCTTCT
GCAGTCTACATATGCAACGCCTGTGGATATGTGGAGTGTGGCTGTATCTTCGAGAGATGTTTCGCCGG
AAGCCTCTTCTGTGGAACTCTGAGGCTGACCAGCTGGGCAAATCTTTGATCTCATTGGATTGCCTC
CAGAAGACGACTGGCCTCGAGAGTCTCTTCTCGAGGAGCCTTTTCCCCAGAGGACCTCGGCCAGT
GCAGTCAGTGGTCCCGGAGATGGAGGAATCTGGAGCGCAGTTGCTGCTGGAATGCTGACCTTAATCCA
CTTAAGCGAATCTCTGCCTTCCGAGCCCTCGACACTTTACCTGCACAAGGAGGAAAGTGACCCGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210857 representing NM_053593
 Red=Cloning site Green=Tags(s)

MATTRYEPVAEIGVGAYGTVYKARDPHSGHFVALKSVRVPNGGAAGGGLPVSTVREVALLRLEAFEHPN
 VVRLMDVCATSRTRDRDIKVTLVFEHIDQLRQYLDKAPPPGLPVETIKDLMRQFLSGLDFLHANCIVHRD
 LKPENILVTSNGTVKLADFGLARIYSYQMALTPVVVTLWYRAPEVLLQSTYATPDMVSWGICFAEMFRR
 KPLFCGNSEADQLGKIFDLIGLPPEDDWPREVSLPRGAFSPRGRPVQSVVPEMEESGAQLLLEMLTFNP
 LKRISAFRALQHSYLHKEESDPE

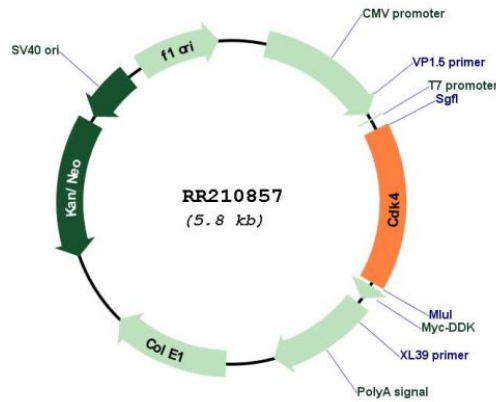
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053593

ORF Size:	909 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_053593.2 , NP_446045.1
RefSeq Size:	1395 bp
RefSeq ORF:	912 bp
Locus ID:	94201
UniProt ID:	P35426
Cytogenetics:	7q22
MW:	33.8 kDa
Gene Summary:	positive regulator of the cell cycle; plays a role in cell cycle progression [RGD, Feb 2006]