

Product datasheet for **RR212473**

Cdk2 (NM_199501) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk2 (NM_199501) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdk2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR212473 representing NM_199501 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAACTTCCAAAAGGTGGAGAAGATTGGAGAGGGCACGTACGGAGTGGTGTACAAAGCCAAAAACA
AGTTGACGGGAGAAGTTGTGGCGCTTAAGAAAAATCCGGCTCGACACTGAGACTGAAGGTGTGCCAGTAC
TGCCATCCGAGAGATCTCCCTCCTTAAGGAGCTCAATCACCTAACATCGTCAAGCTGCTGGATGTCATC
CACACAGAAAATAAGCTTTATCTGGTGTTGAATTCCTGCACCAGGACCTCAAGAAGTTTATGGATGCTT
CTGCTCTCACTGGCATTCTCTCCCTCATCAAGAGCTATCTGTTCCAGCTGCTCCAGGGCCTAGCATT
CTGCCATTCTCACCGTGTCTGCACCGAGACCTTAAGCCCCAGAACCTGTTATCAACGCAGAGGGGTCC
ATCAAGCTGGCTGACTTTGGACTAGCAAGAGCCTTTGGAGTCCCTGTCCGTACTTACACTCATGAGGTGG
TGACCCTCTGGTACCGAGCACCGGAGATTCTTCTGGGCTGCAAGTACTACTCCACAGCCGTGGACATCTG
GAGCCTGGGCTGCATCTTTGCCGAAATGGTGACCCGAGGGCCCTATTCCTGGAGACTCTGAGATTGAC
CAACTTTCGGATCTTTCGGACTCTGGGACCCAGATGAGGTGGTTTGCCAGGAGTTACTTCTATGC
CTGATTATAAGCCAAGTTTCCCAAGTGGGCTCGGCAGGATTTTAGCAAGTTGTGCTCCCTGGATGA
AGACGGACGGAGCTTGTATCTCAAATGCTGCACTATGACCCCAACAAGCGGATTTAGCCAAAGCAGCC
CTGGCTCACCTTTCTTCCAGGATGTGACTAAACCAGTGCCCCACCTTCGACTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR212473 representing NM_199501
 Red=Cloning site Green=Tags(s)

MENFQKVEKIGEGTYGVVYKAKNKL TGEVVALKKIRLDTETEGVPSTAIRESISLLKELNHPNIVKLLDVI
 HTENKLYLVFEFLHQDLKKFMDASAL TGIPLPLIKSYLFQLLQGLAFCHSHRVLHRDLKPQNLLINAEGS
 IKLADFLARAFGVVPRTYTHEVVTWYRAPEILLGCKYYSTAVDIWSLGCIFAEMVTRRALFPGDSEID
 QLFRIFRTLGTPDEVVWPGVTSMPDYKPSFPKWARQDFSKVVPPLDEDDGRSLLSQMLHYDPNKRISAKAA
 LAHPFFQDVTKPVPHLRL

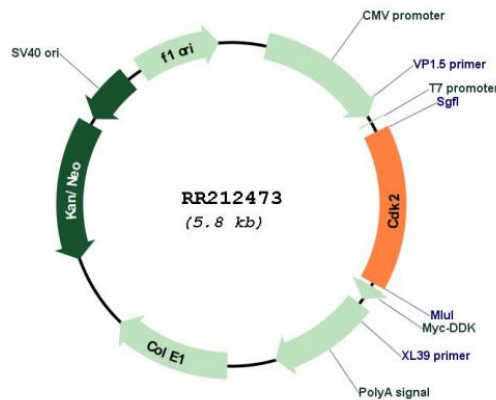
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_199501

ORF Size:	894 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:	<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_199501.1 , NP_955795.1
RefSeq Size:	2250 bp
RefSeq ORF:	897 bp
Locus ID:	362817
Cytogenetics:	7q11
MW:	33.9 kDa