

## Product datasheet for **RR200175**

### Cdk12 (NM\_138916) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk12 (NM_138916) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdk12
Synonyms:	Crk7; Crkrs; Pksc
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR200175 representing NM_138916 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

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CATCGGGAGGCGGCAGCTCCAACAGCAGGGAGCGTCACCGCTTGGTGTGCAAGCACAAGCGGCATAAGTC  
CAAGCACTCCAAAGACATGGGGTTGGTAACCCCGAAGCGGCATCTTTGGGTACAATAATCAAACATTG  
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TCGATGAAGGACCGGTTATCAGGTAGTTCGAAACGTTTCAGTGGAGGGGAACGATGATTATGGGAAGGCAC  
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AGAGTTAAAGTCTGGACACAAGGACCGTAGTAAAAGTCATCGGAAAAGGGAAACCCAAAAGTTACAAA  
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CCGGGTCACGAAGTCGTATTCCAGCATCTCACCTGTGAGGCTTCCATTGAATCCAGCCTGGGAGCTGA  
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AGACAGAGACATCAGAAAAGGAGGCCCTTCCACCTCTCCCCACAATAACTTCTCCACCCCTTTACCATC  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR200175 representing NM\_138916  
 Red=Cloning site Green=Tags(s)

MPNSERHGGKKDGGSGGASGTSQPSSGGGSSNSRERHRLVSKHKRHKSKHSDMGLVTPEAASLGTIIKPL  
 VEYDDISSDSDTFSDMAFKSDRRENDERRGTDSDRLHRHRHHQHRRSRDLLKTKQTEKEKNQEVSKSG  
 SMKDRLSGSSKRSVEGNDDYGKAQLSKSSSKESRSSKMHEKTRKERELKSGHKDRSKSHRKRKRETPKSYK  
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 PSAYQSSTRSPSPYSRRQRSVSPYSRRRSSYERSGSYSGRSPSPYGRRRSSSPFLSKRSLSRSPISSRK  
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 EGLDYCHKKNFLHRDIKCSNILLNNSGQIKLADFLARLYNSEESRPYTNKVITLWYRPPLELLGEERYT  
 PAIDVWSCGICILGELFTKPIFQANLELAQLELISRLCGSPCPAVWPDVTKLPYFNTMKPKKQYRRRLRE  
 EFSFIPSAALDLLDHMLTLDPSKRCTAEQTLQSDFLKDVLSKMAPPDLPHWQDCHELWSKRRRRQRQSG  
 IVIEEQPPSKASRKETTSGTAAEPVKNSSPAPPQAPVKAEPGPGDAVGLGDITQQLNQSELAVLLNLQ  
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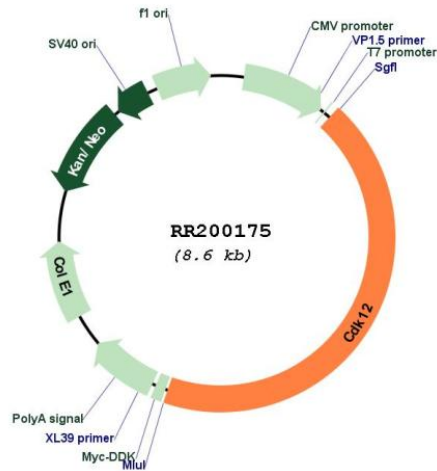
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_138916

**ORF Size:** 3774 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\\_138916.2](#), [NP\\_620271.1](#)

**RefSeq Size:** 4396 bp

**RefSeq ORF:** 3777 bp

**Locus ID:** 192350

**UniProt ID:** [Q3MJK5](#)

**Cytogenetics:** 10q31  
**MW:** 140 kDa  
**Gene Summary:** human homolog may play a role in regulation of transcription and splicing [RGD, Feb 2006]