

Product datasheet for MR218603

Cdk12 (NM_001109626) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk12 (NM_001109626) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdk12
Synonyms:	1810022J16Rik; A1646528; Crk7; Crkrs; D11Ert752e; Pksc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR218603 representing NM_001109626 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCC

ATGCCCAATTCGAGAGACATGGGGCAAGAAGGACGGGAGCGGAGGAGCTTCTGGAACCTCGCAGCCGT
CATCGGGAGGTGGCAGCTCCAACAGCAGGGAGCGTCACCGCTTGGTGTGCAAGCACAAGCGGCATAAGTC
CAAGCACTCCAAGACGTGGGGCTGGTACCCCGAAGCGGCATCTTTGGGTACCATAATCAAACCACTG
GTGGAGTACGATGACATCAGCTCTGATTCAGACACCTTCTCCGATGACACGGCCTTCAAATCAGACCCGA
GGGAGAACGAGGAACGTGGGGAAACGGATCGGAGCGATCGCTGCACCGACATCGTCACCACCAGCACCG
GCGGTCCCGAGACTTGCTAAAACTAAACAGACGAAAAGGAAAAAATCAGGAAGTCTCCAAATCTGGA
TCTATGAAGGACCGGTATCGGGCAGTTCCAAACGG[AT]CCGTGGAGGGGAGTGATGATTATGGGAAGG
CCCAGCTATCCAAAAGCGGCAGCAAGGAATCCAGGTCTGCCAAAATGCACAAGGAGAAGACCCGCAAGA
GCGAGAGTTAAAGTCTGGATACAAGGACCGGAGTAAAAGTTCATCGGAAAAGGAAAACACCCAAAAGTTAC
AAAACCGTGGCTAGCCCTAACCGGAGATCCAGGAGTCCCATAGGAAATGGTCTGACAGTTCCAAGCAAG
ATGACAGCCCTCCGGAGCTTCTATGGCCAAGACTACGATCTTAGCCCCCAAGGTCTCACACTTCTAG
CAACTATGACTCCTACAAGAAGAGTCTTGAAGTACCTCAAGAAGGCAGTCAATCAGCCCACCTTACAAA
GAGCCTTCTGCTTACCAGTCCAGCACTCGGTACCCAGTCTTACAGCCGACGACAGGTTGTGAGTC
CCTATAGCCGGAGACGGTCTCCAGCTATGAAAGGAGCGGCTTTACAGCGGGAGATCACCCAGCCCTTA
TGGCCGAAGGCGATCAAGCAGCCCTTCTGAGCAAGAGGTCTCTGAGTGGAGTCCACTCCCCAGTAGG
AAATCCATGAAGTCCAGAAGTAGAAGTCTGCATATTCAGACACTCATCTTCTCATAGTAAAAAGAAGC
GATCCGGGTACGCAGTCGTCAATCCAGTATCTCACCTGTGAGGCTTCCATTGAATTCAGCCTGGGAGC
TGAAGTCAAGTAAAAAAGAAGGAAAGAGCAGCAGCTGCTGCAGCAGCAAAAATGGATGGAAAAGAGTCC
AAGAGTTCACCTATAATTTTGCCTAAAAAAGAGAACTTGAGGTGAAGGAGTCAGGGTTAGAGTCTAAAA
AGTTACCCAGAAGTATAAAATCAGAAAAATCGACCCAGATACTGAACTGGTTACTGTAGCACATTCAAA
CCCAGAGGTAAAACATTGTTTAGACACAGGGAAGTTAGGTTGGATGAGAACTTGCAGAAGCATCTGCT



[View online »](#)

AAGGATTTGAAAGCACAGGGAACAAGGACGTTAAACCTGTAGCACCGAAAGAGGTGATTGTTACTTCAA
 AGGAGACAGAGACATCAGAAAAGGAGACCCCTCCACCTCTCCCAACAATTACTTCTCCACCCCTTTACC
 AGCTACTACCCCTCCACCTCAGACACCCCTTTGCCACCTTTGCCTCCACTACCAGCTATTCCGCTGCAG
 CCACCTCTGCCTCCTCCCAACCACCATTTAGTCAAGTTCCTGTTTCAAGTACTTCAATTTTACCCTCTT
 CTCCTCACCAAGGACATCTACTCTATCCTCTCAGACAAATTCTCAGCCCCGTACAGGTTTCTATGAA
 GACTCAAGTATCTATAACAGCTGCTATTCACATCTGAAGACTTCAACATTGCCTCCTCTGCCCTCCCT
 CCCCTATTACCTGGAGATGACATGGATAGTCCAAAAGAAACACTTCCCTCAAAGGACGAAAGAAAG
 AGAAGGAACAGAGGACTCGCCACTTGCTTACAGACTTGCTTCTCCTCCTGAGCTACCAGGAGGATCC
 ATCGCCTCCAGATTCTCCAGAGCCAAAGCAATTACACCACCTCAACAACCATATAAAAAAGAGACAAAA
 ATTTGTTGTCCACGTTATGGAGAAAGAAGACAAACAGAAAGTATTGGGGGAAGCGCTGTGTGGACAAGT
 TTGACATTATTGGGATTATTGGAGAGGGGACCTATGGCCAAGTATATAAAGCCAAGGACAAAGACACAGG
 AGAACTAGTAGCTCTGAAGAAGTTTCGGCTGGACAATGAGAAAGAGGGCTTCCCAATCACAGCCATCCGG
 GAGATCAAGATTCTTCGTCATTTAGTTCACCAGAGTGTGTAAACATGAAGGAAATTGTCACAGACAAAC
 AAGATGCACTGGATTTCAAGAAGGACAAAGGTGCCTTTTACCTTGTATTTGAATATATGGACCATGACTT
 AATGGGACTGCTTGAATCAGTTTGGTGCATTTTCTGAGACCATATCAAGTCATTTATGAAACAGCTA
 ATGGAAGGACTGGATTACTGTCAAAAAAGAAATTCCTCCATCGGGATATTAAATGTTCTAACATTTTGC
 TGAATAACAGCGGCAAACTCAAAGTGGCAGATTTTGGACTTGCTCGGCTCTATAACTCTGAAGAGAGTCCG
 CCCTTACACAAACAAAGTCATCACTCTTTGGTATCGACCTCCAGAGCTTCTTCTTGAGAGGAAAGATAC
 ACACCAGCCATTGATGTTTGGAGCTGTGGGTGCATCCTTGGAAGACTGTTCAAAAAGAAACCTATTTTTC
 AAGCCAATTTAGAAGTGGCTCAGCTAGAAGTATCAGTCGTCTCTGTGGTAGTCTTGTCCAGCAGTGTG
 GCCTGATGTTATCAAGCTGCCCTACTTCAACACCATGAAACCGAAGAAGCAATACAGGAGACGCCTAAGA
 GAAGAATCTCTTTCATTCCTTCAGCGGCACTTGATCTATTGGACCACATGCTGACACTGGATCCTAGCA
 AGAGGTGCACAGCTGAACAGACCTACAGAGTACTTTCTTAAAGATGTGGAAGTCAAGCAAAATGGCACC
 TCCAGACCTACCTCACTGGCAGGATTGCCATGAATTTGGAGTAAGAAAGTTCGACGGCAGCGACAGAGT
 GGTATTGTGATAGAAGATCCACCTCCGTCCAAAGCTTCTAGAAAAGAACTACCTCAGGGACAACAGCTG
 AGCCTGTGAAAAACAATAGCCCAGCACCTCAGCCTGCTCCTGTCAAGGCAGAGCCTGGTCCAGGGGA
 TGCAGTAGGCCTTGGTGACATCACACAGCAGTTGAATCAAAGTGAATTGGCAGTGTATTAAACCTGCTT
 CAGAGCCAAACTGACCTGAGCATCCCTCAGATGGCACAGCTGCTTAAATCCACTCCAATCCAGAGATGC
 AACAGCAGCTTGAAGCCTTGAATCAGTCTATTAGTGCAGTACTGAAGCCAGTCCCAGCAGCAGGACTC
 AGAATCCATAGCCCTGAAGAATCATTGAAGGAGGTACCTTCTGTACCTGTGGTCTGCCTCCTGCTGAA
 CAGACAACCTCTGAAGCTTCAAACACACCAGCTGACATGCAGAATGTGTTGGCAGTCTCTTGTAGTCAGC
 TGATGAAAACCCAAGAGCCAGCAGGTAACCTGGAGGAAAACCAATGACAAGAATAGTGGGCCACAGGG
 GCCCCGAAGAACTCCTACAATGCCACAGGAGGAGGAGCAGCAGTGTCTCCTCACATTCTCCACCAGAG
 AAGAGGGCCCCCTGAGCCCCCTGGACCTCCACCGCCGACCTCCACCCCTCTGGTTGAAGGCGATCTTT
 CCAGCGCCCCCAGGAGTTGAATCCCGCGTGACAGCCGCTTGTGCAACTTTTATCCCAGCCTGAAGC
 AGAGCCTCCTGGCCACCTGCCACATGAGCACCAGGCTTGGAGCAATGGAATACTCCACCCGATCCCAT
 CCAAACAGGACTTACGGAATACTGATGGGCTGAGACAGGGTTCAGTCCGCTGACACTGATGAACGCA
 GTTCTGGTCCAGCCTTGACAGAATCTTTGGTTCAGACCCCGGTGAAGAACAGGACCTTCTCAGGCTCTGT
 GAGCCACCTTGGGGAGTCCAACAGCTACCAGGGCACAGGGTTCAGTGCAGTCCCAGGGGACCAGGACCTC
 CGTTTTACCAGGGTCCCTTAGCATTACACTCAGTGGTTGGGCAACCATTCTCAAGTCTGAGGGAAATA
 GCAACTCTGTGGTACATGCAGAGACAAATTGCAAAACTATGGGGAGCTGGGACCGGGAACCACTGGGGC
 CAACAGCTCAGGAACAACGCTTTCAGTGGGGGGCCAGCTCAGTCTTATGGAAAACCTACAGGGGGCT
 GCAAGAGTCTACCAGGGGGGAGAGGGAGAGGAGTTCCTTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR218603 representing NM_001109626
 Red=Cloning site Green=Tags(s)

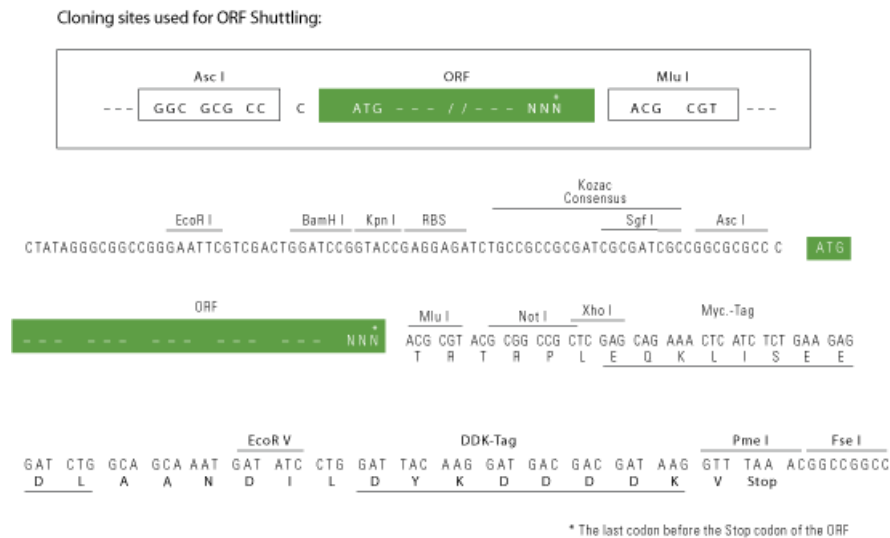
MPNSERHGGKKDGGSGGASGTSQPSSGGGSSNSRERHRLVSKHKRHKSKHSDVGLVTPEAASLGTIIKPL
 VEYDDISSDSDTFSDDTAFKSDRRENEERRGTDSDRLHRHRHHQHRRSRDLLKTKQTEKEKNQEVSKSG
 SMKDRVSGSSKRXXVEGSDDYGAQLSKSGSKESSSKMHKEKTRKERELKSGYKDRSKSHRKRETPKSY
 KTVASPKRRSRSPHRKWSDDSSKQDDSPSGASYGQDYDLSPPRSHTSSNYDSYKKSPPGSTRRQSI SPPYK
 EPSAYQSSTRSPSPYSRRQRSVSPYSRRRSSSYERSGSYSGRSPSPYGRRRSSSPFLSKRSLSRSPSPSR
 KSMKSRSPSPAYSRRSSSHSKKRSGSRSRHSSI SPVRLPLNSSLGAELSRKKKERAAAAAAKMDGKES
 KSSPIILPKKEKLEVKESGLESKLPRSIKSEKSTPDELVTVAHSNPEVKHCLDTGKVRLDENLQKHPA
 KDLKAQGTQKDKVPAPKEVIVTSKETETSEKETLPLPTITSPPLPATPPPQTPLPLPLPAIPLQ
 PPLPPPQPPFSQVPVSSSILPSSPHRTSTLSSQTNQPPVQVSMKTQVSI TAAIPLHKTSTLPLPLP
 PLLPGDDMDSPKETLPSKPAKKEKEQRTRHLLTDLPLPELPGGDPSPDPSPKAITPPQPYKRPK
 ICCPRYGERRQTESDWGKRCVDFDIIGIIGEGTYGQVYKAKDKDTGELVALKKVRLDNEKEGFPITAIR
 EIKILRQLVHQSVVMKEIVTDKQDALDFKKDKGAFYLVFEYMDHDLMGLLESGLVHFSEDHKISFMKQL
 MEGLDYCHKKNFLHRDIKCSNILLNNSGQIKLADFGLARLYNSEESRPYTNKVITLWYRPPLELLGEERY
 TPAIDVWSCGCILGELFTKPIFQANLELAQLELISRLCGSPCAVWPDVIKLPYFNTMKPKKQYRRRLR
 EEFSPFIPSAALDLLDHMLTLDPSKRCTAEQTLQSDFLKDVLSKMAPDLPHWQDCHELWSKRRRRQRQ
 GIVIEDPPPSKARKEKTSGTAEPVKNNPAPPQAPVKAEPGPGDAVGLGDITQQLNQSELAVLLNLL
 QSQTDL SIPQMAQLLNIIHSNPEMQQLEALNQSISALTEASSQQQDSESIAPPEESLKEVPSVPVLLPAE
 QTTPEASNTPADMQNVLAVLLSQLMKTQEPAGNLEENTNDKNSGPQGRRTPTMPQEEAACPPHILPPE
 KRPEPPGPPPPPPPPPLVEGDLSSAPQELNPAVTAALLQLLSQPEAEPGHLPHHEHQALRPMYSTRSH
 PNRTYGNTDGPE TGFSSADTDERSSGPALTESLVQTPVKNRTFSGSVSHLGESNSYQGTGSVQFPGDQDL
 RFRTRVPLALHSVVGQPFLLKSEGNNSVVAETKLQNYGELGPGTTGANSSGTTLQWGGPAQSYGKPYRGA
 ARVLRGGRGRGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9008_h02.zip

Restriction Sites: AscI-MluI

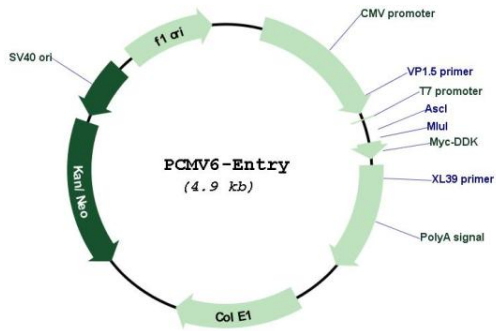
Cloning Scheme:



ACCN: NM_001109626

ORF Size:	4455 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_001109626.1 , NP_001103096.1
RefSeq Size:	7669 bp
RefSeq ORF:	4455 bp
Locus ID:	69131
UniProt ID:	Q14AX6
Cytogenetics:	11 61.75 cM
MW:	164.1 kDa
Gene Summary:	Cyclin-dependent kinase that phosphorylates the C-terminal domain (CTD) of the large subunit of RNA polymerase II (POLR2A), thereby acting as a key regulator of transcription elongation. Regulates the expression of genes involved in DNA repair and is required for the maintenance of genomic stability. Preferentially phosphorylates 'Ser-5' in CTD repeats that are already phosphorylated at 'Ser-7', but can also phosphorylate 'Ser-2'. Required for RNA splicing, possibly by phosphorylating SRSF1/SF2. Involved in regulation of MAP kinase activity, possibly leading to affect the response to estrogen inhibitors.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218603