

Product datasheet for MC224091

Cdk12 (NM_026952) Mouse Untagged Clone

Product data:

| | |
|----------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Cdk12 (NM_026952) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Cdk12 |
| Synonyms: | 1810022J16Rik; A1646528; Crk7; Crkrs; D11Ert752e; Pksc |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| Fully Sequenced ORF: | >MC224091 representing NM_026952 Red=Cloning site Blue=ORF Orange=Stop codon |

CTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGGCGC
GCC

ATGCCAATTCGAGAGACATGGGGCAAGAAGGACGGGAGCGGAGGAGCTTCTGGAACCTCGCAGCCGT
CATCGGGAGGTGGCAGCTCCAACAGCAGGGAGCGTCACCGCTTGGTGTGCAAGCACAAGCCGCATAAGTC
CAAGCACTCCAAAGACGTGGGGCTGGTGACCCCGAAGCGGCATCTTTGGGTACCATAATCAAACCACTG
GTGGAGTACGATGACATCAGCTCTGATTGACACACCTTCTCCGATGACACGGCCTTCAAATCAGACCCGGA
GGGAGAACGAGGAACGTGGGGAAACGGATCGGAGCGATCGCCTGCACCGACATCGTCACCACCAGCACCG
GCGGTCCCAGACTTGTAAAACTAAACAGACGGAAAAGGAAAAAATCAGGAAGTCTCCAAATCTGGA
TCTATGAAGGACCGGTATCGGGCAGTTCAAAACGGTCCGTGGAGGGGAGTGATGATTATGGGAAGGCC
AGCTATCCAAAAGCGGCAGCAAGGAATCCAGGTCGTCCAAAATGCACAAGGAGAAGACCCGAAAGAGCG
AGAGTTAAAGTCTGGATAACAAGGACCGGAGTAAAAGTCATCGGAAAAGGGAAACCCAAAAGTTACAAA
ACCGTGGCTAGCCCTAACCGGAGATCCAGGAGTCCCATAGGAAATGGTCTGACAGTTCACAGCAAGATG
ACAGCCCTCCGGAGCTTCTTATGGCCAAGACTACGATCTTAGCCCCCAAGGTCACACTTCTAGCAA
CTATGACTCCTACAAGAAGAGTCTGGAAGTACCTCAAGAAGGCAGTCAATCAGCCACCTTACAAGAG
CCTTCTGCTTACCAGTCCAGCACTCGGTACCCAGTCCTTACAGCCGACGACAGAGGTCTGTGAGTCCCT
ATAGCCGGAGACGGTCTCCAGCTATGAAAGGAGCGGCTTACAGCGGGAGATCACCCAGCCCCTATGG
CCGAAGGCGATCAAGCAGCCCTTCTGAGCAAGAGGTCTCTGAGTCGGAGTCCACTCCCAGTAGGAAA
TCCATGAAGTCCAGAAGTAGAAGTCTGCATATCAAGACTCATCTTCTCATAGTAAAAAGAAGCGAT
CCGGGTCACGCAGTCGTATTCCAGTATCTCACCTGTGAGGCTTCCATTGAATCCAGCCTGGGAGCTGA
ACTCAGTAGAAAAAGAAGGAAAGAGCAGCAGCTGCTGCAGCAGCAAAAATGGATGGAAGAGTCCAAG
AGTTCACCTATAATTTTGCCTAAAAAGAGAACTTGAGGTGAAGGAGTCAAGGTTAGAGTCAAAAAGT
TACCCAGAAGTATAAAATCAGAAAAATCGACCCAGATACTGAACTGGTTACTGTAGCACATTCAAACCC
AGAGGTA AACATTGTTTAGACACAGGGAAGGTTAGGTTGGATGAGA ACTTGCAAGATCCTGCTAAG
GATTTGAAAGCACAGGGAACAAAGGACGTTAAACCTGTAGCACCGAAAGAGGTGATTGTTACTTCAAAGG



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AGACAGAGACATCAGAAAAGGAGACCCTTCCACCTCTTCCCACAATTACTTCTCCACCCCTTTACCAGC
TACTACCCCTCCACCTCAGACACCCCTTTGCCACCTTTGCCTCCACTACCAGCTATTCCGCTGCAGCCA
CCTCTGCCTCCTCCCAACCACCATTTAGTCAAGTTTCTGTTTCAAGTACTTCAATTTTACCCTCTTCTC
CTCACCAAGGACATCTACTCTATCCTCTCAGACAAATTTCTCAGCCCTGTACAGGTTTCTATGAAGAC
TCAAGTATCTATAACAGCTGCTATTCCACATCTGAAGACTTCAACATTGCCTCCTCTGCCCTCCCTCCC
CTATTACCTGGAGATGATGACATGGATAGTCCAAAAGAAACACTTCCTTCAAAGCCTGCAAAGAAAGAGA
AGGAACAGAGGACTCGCCACTTGCTTACAGACTTGCCTTCTCCTGAGCTACCAGGAGAGATCCATC
GCCTCCAGATTCTCCAGAGCCAAAGGCAATTACACCACCTCAACAACCATATAAAAAGAGACCAAAAATT
TGTTGTCCACGTTATGGAGAAAAGACAAACAGAAAAGTGATTGGGGGAAGCGCTGTGTGGACAAGTTG
ACATTATTGGGATTATTGGAGAGGGACCTATGGCCAAGTATATAAGCCAAGGACAAAGACACAGGAGA
ACTAGTAGCTCTGAAGAAGGTTCCGGCTGGACAATGAGAAAAGGGCTTCCAATCACAGCCATCCGGGAG
ATCAAGATTCTTCGTCATTTAGTTCACCAGAGTGTGTAACATGAAGGAAATGTCACAGACAAACAAG
ATGCACCTGGATTTCAAGAAGGACAAAGGTGCCTTTTACCTTGTATTTGAATATATGGACCATGACTTAAT
GGGACTGCTTGAATCAGGTTTGGTGCATTTTCTGAGGACCATATCAAGTCATTTATGAAACAGCTAATG
GAAGGACTGGATTACTGTCAAAAAGAATTTCTCCATCGGGATATTAATGTTCTAACATTTTGTCTGA
ATAACAGCGGGCAAACTAAACTGGCAGATTTTGGACTTGTCTGGCTCTATAACTGAAAGAGAGTCGCC
TTACACAAAACAAAGTCATCACTCTTTGGTATCGACCTCCAGAGCTTCTTCTGGAGAGGAAAGATACACA
CCAGCCATTGATGTTTGGAGCTGTGGGTGCATCCTTGGAGAAGTGTTCACAAAAGAAACCTATTTTCAAG
CCAATTTAGAAGTGGCTCAGCTAGAAGTATCAGTCGTCTCTGTGGTAGTCTTGTCCAGCAGTGTGGCC
TGATGTTATCAAGCTGCCTACTTCAACACCATGAAACCGAAGAAGCAATACAGGAGACGCCTAAGAGAA
GAATTCCTTTTCAATCCTTCAGCGGCACCTTGATCTATTGGACCACATGCTGACACTGGATCCTAGCAAGA
GGTGCACAGCTGAACAGACCCTACAGAGTACTTTCTTAAAGATGTGGAAGTGCAGCAAAAATGGCACCTCC
AGACTACCTCACTGGCAGGATTGCCATGAATTTGGAGTAAGAAACGTCGACGGCAGCAGAGTGGT
ATTGTGATAGAAGATCCACCTCCGTCCTCAAGCTTCTAGAAAAGAAACTACCTCAGGGACAACAGCTGAGC
CTGTGAAAAACAATAGCCAGCACACCTCAGCCTGCTCCTGTCAAGGCAGAGCCTGGTCCAGGGGATGC
AGTAGGCCTTGGTGACATCACACAGCAGTTGAATCAAAGTGAATGGCAGTGTATTAAACCTGCTTCAG
AGCCAAACTGACCTGAGCATCCCTCAGATGGCACAGCTGCTTAATATCCACTCCAATCCAGAGATGCAAC
AGCAGCTTGAAGCCTTGAATCAGTCTATTAGTGCAGTACTGAAGCCAGTCCCAGCAGCAGGACTCAGA
ATCCATAGCCCTGAAGAATCATTGAAGGAGGTACCTTCTGTACCTGTGGTCTGCCTCCTGCTGAACAG
ACAACCTCTGAAGCTTCAAACACACCAGCTGACATGCAGAAATGTGTTGGCAGTCTCTTGTAGTCACTGA
TGAAAACCAAGGCCAGCAGGTAACCTGGAGGAAAACCAATGACAAGAAATAGTGGGCCACAGGGGCC
CCGAAGAACTCCTACAATGCCACAGGAGGAGGCAGCAGGTAACAGACCCGTCATGAATCTCATTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Ascl-MluI

ACCN:

NM_026952

Insert Size:

3777 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_026952.2](#), [NP_081228.2](#)

RefSeq Size: 4846 bp

RefSeq ORF: 3777 bp

Locus ID: 69131

UniProt ID: [Q14AX6](#)

Cytogenetics: 11 61.75 cM

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]