

Product datasheet for RR210976

Cdk20 (NM_001025752) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk20 (NM_001025752) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdk20
Synonyms:	Ccrk
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210976 representing NM_001025752 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCAGTATTGCATCCTCGGTGCGATCGGGAGGGCGCCACGGCATCGTCTTTAAAGCCAAGCAGC
TAGAGACTGGCGAGATCGTTGCCCTCAAGAAGGTGGCCCTGCGGCGCTGGAGGATGGTATTCTAAACCA
GGCCCTCAGGAAATCAAGGCTCTGCAGGAGATCGAGGACAGTCAATATGTGGTACAGCTGAAGGCTGTG
TTCCACATGGTGACAGGCTTTGTGCTGGCTTTTCGAGTTTATGCTGTGCGACCTGGCGGAGGTGGTGCGCC
ATGCCCAGAGGCCACTAGCCCCAGCACAGGTTAAGAGCTACCTGCAGATGCTGCTCAAAGGTGTTGCATT
TTGCCATGCCAACACATCGTGATCGGGACCTGAAGCCTGCCAACCTGCTCATCAGTGCCTCAGGCCAG
CTCAAGATAGCTGACTTTGGACTGGCCGGTCTTCTCTCCAGATGGTGGTGCCTCTACACACATCAGG
TGGCCACCAGGTGGTACCGAGCTCCTGAGCTCCTGTACGGTGCCTCGCAGTATGACCAGGGTGTGACCT
ATGGGCTGTAGGCTGTATTATGGGAGAGCTGTTGAATGGATCCCCCTATTCCCGGGAGAAAACGACATT
GAACAAGTGTGCTGTGCTTGAATCCTGGGTACCCCGAGTCTCGAGTCTGGCCGAGATCACAGAGC
TGCTGACTACAACAAGATCTCCTTCAAGGAGCAGGCACCAAGTGGCCCTGGAGGAGGTGCTGCCTGATGC
CTCTACCGAGCCCTGGACCTGCTGGGTAGTTCCTCCTTTACCCTCCAGCAGCGTATTGCAGCCTCC
CAGGCCCTTCTGCATCAGTATTTCTTACAGCTCCTCTGCCTGCCCATCCGTCTGAGCTGCCAATTCCTC
AGCGCCCAGGGGACCCACACCAAGGCTCATCCAGGGCCCCCATGTCCATGACTTCCATGTGGATCG
TCCTCTTGAGGAGTCACTGTTGAATCCAGAAGTATCCGGCCCTTCATCCAGAGGGC

ACGGTACGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210976 representing NM_001025752
 Red=Cloning site Green=Tags(s)

MDQYCILGRIGEGAHGIVFKAKHVETGEIVALKKVALRRLEDGIPNQALREIKALQEIEDSQYVVQLKAV
 FPHGAGFVLAFEFMLSDLAEVVRHAQRPLAPAQVKSYLQMLLKGVAFCHANNIVHRDLKPANLLISASGQ
 LKIADFGLARVSPDGGRLYTHQVATRWYRAPELLYGARQYDQGVLDLWAVGCMGELLNGSPLFPGENDI
 EQLCCVLRILGTPSPRVWPEITELPDYNKISFKEQAPVPLEEVLDPASHQALDLLGQFLLYPPRQRIAAS
 QALLHQYFFTAPLPAHPSELPIPQRPGGTPKAHPGPPHVHDFHVDPRPLEESLLNPELIRPFIEG

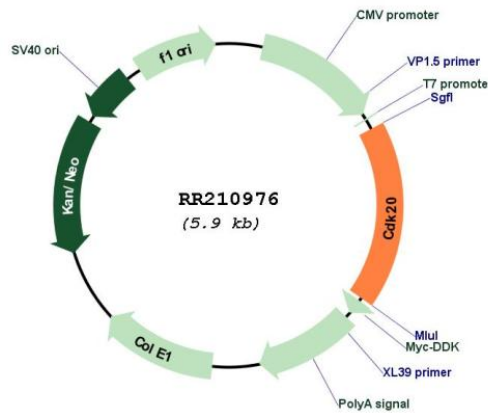
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025752

ORF Size: 1038 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_001025752.2 , NP_001020923.2
RefSeq Size:	2145 bp
RefSeq ORF:	1041 bp
Locus ID:	364666
UniProt ID:	Q4KM34
Cytogenetics:	17p14
MW:	38.4 kDa
Gene Summary:	Required for high-level Shh responses in the developing neural tube. Together with TBC1D32, controls the structure of the primary cilium by coordinating assembly of the ciliary membrane and axoneme, allowing GLI2 to be properly activated in response to SHH signaling. Involved in cell growth. Activates CDK2, a kinase involved in the control of the cell cycle, by phosphorylating residue 'Thr-160' (By similarity).[UniProtKB/Swiss-Prot Function]