

Product datasheet for **MG205221**

Cdk20 (NM_053180) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk20 (NM_053180) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdk20
Synonyms:	4932702G04Rik; AU019450; AW558027; Ccrk; CDCH; p42; PNQLARE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205221 representing NM_053180 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCAGTATTGCATCCTCGGTTCGCATCGGGGAGGGCGCCACGGCATCGTCTTCAAAGCCAAGCAGC
TAGAGACTGGCGAGATCGTTGCCCTCAAGAAGGTGGCCTTGCGGCGGCTGGAGGATGGTATTCTAACCA
GGCCCTCAGAGAAATCAAGGCTCTGCAGGAGATAGAGGACAGTCAATATGTGGTGCAGCTGAAGGCTGTG
TCCCACATGGTTCGGGCTTTGTGCTGGCTTTTCAATTTATGCTGTCGGACCTGGCAGAGGTGGTGCGCC
ATGCCCAGAGGCCCTGGCCCCAGCACAAGTCAAGAGCTACCTGCAGATGCTGCTCAAAGGTGTTGCGTT
TTGCCATGCCAACACATTGTGCATCGGGACCTGAAGCCTGCTAACCTGCTCATCAGTGCCTCAGGCCAG
CTCAAGATAGCTGACTTTGGCCTGGCCCCGGTCTTCTCTCCGGATGGTGGTTCGCCTCTACACACATCAGG
TGGCCACCAGGTGGTACCGAGCTCCTGAACTCCTGTATGGCGCTCGGCAGTATGACCAGGGCGTTGACCT
ATGGGCTGTGGGCTGCATCATGGGAGAGCTGTTGAATGGGTCCCCCTGTTCCCGGGCGAAAACGACATT
GAACAACGTGTGCTGTGCTTCGCATCCTGGGTACCCCGAGTCTCGAGTCTGGCCGGAGATCACAGAGC
TGCTGACTACAACAAGATCTCCTTCAAGGAGCAGGCACCAAGTGCCTGGAGGAGGTGCTGCCTGATGC
CTCTCCCCAGGCCCTGGACCTGCTGGCCAGTTCTCTCTACCTCCACGACAGCGTATTGCAGCTCC
CAGGCCCTCTGCATCAGTACTTCTTACAGCGCCTCTGCCTGCCATCCATCCGAGTGCCTGCAATTCCTC
AGCGCCCAGGGGACCTGCACCAAGGCTCACCCAGGGCCCCCATGTCCACGACTTCCATGTGGATCG
ACCTTTGAGGAGTCACTGTTGAACCCAGAAGTATTCGGCCCTTCATCCAGAGGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205221 representing NM_053180
Red=Cloning site Green=Tags(s)

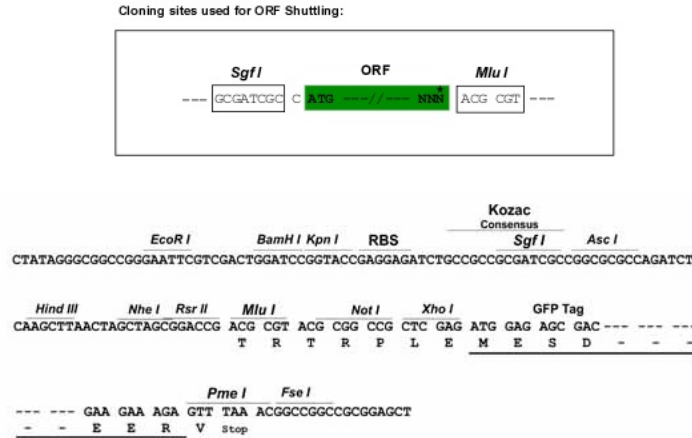
MDQYCILGRIGEGAHGIVFKAKHVETGEIVALKKVALRRLEDGIPNQALREIKALQEIEDSQYVVQLKAV
 FPHGAGFVLAFAFEMLSDLAEVVRHAQRPLAPAQVKSYLQMLLKGVAFCHANNIVHRDLKPANLLISASGQ
 LKIAADFGLARVSPDGGRLYTHQVATRWYRAPELLYGARQYDQGVDLWAVGCMGELLNGSPLFPGENDI
 EQLCCVLRILGTSPRVWPEITELPDYNKISFKEQAPVPLEEVLDPASQALDLLGQFLLYPPRQRIAAS
 QALLHQYFFTAPLPAHPSELPIPQRPGGPAPKAHPGPPHVHDFHVDPRPLEESLLNPELIRPFIEG

TRTRPLE - GFP Tag - V

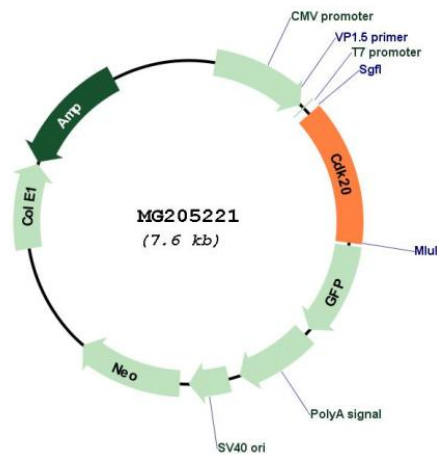
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053180

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_053180.2 , NP_444410.1
RefSeq Size:	1854 bp
RefSeq ORF:	1041 bp
Locus ID:	105278
UniProt ID:	Q9JHU3
Cytogenetics:	13 B3
Gene Summary:	Involved in cell growth. Activates CDK2, a kinase involved in the control of the cell cycle, by phosphorylating residue 'Thr-160' (By similarity). 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.[UniProtKB/Swiss-Prot Function]