

Product datasheet for **MG225890**

Cdk6 (NM_009873) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdk6 (NM_009873) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdk6
Synonyms:	A1504062; Crk; Crk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225890 representing NM_009873 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAAGGACAGCCTGAGTCGCGCCGATCAGCAGTATGAGTGCGTGCCGGAGATCGGCGAAGGCCCT
ATGGGAAGGTGTTCAAGGCCCGGACCTGAAGAACGGCGGCCGCTTCGTGGCTCTGAAGCGCGTGCAGT
GCAGACCAGTGAGGAGGGCATGCCGCTCTCCACCATCCGCGAGGTGGCGGTGCTGAGGCACCTGGAGACC
TTCGAGCACCCCAACGTGGTCAGGTTGTTTGTATGTGTGCACAGTGTACGGACGGACAGAGAAACCAAGC
TTACACTAGTGTGAGCATGTTGATCAAGACTTGACCACTTACTTGGATAAAGTCCAGAGCCCGCGT
ACCCACAGAAACCATAAAGGATATGATGTTTCAGCTTCTCCGAGGTCTGGACTTCTTTCATTCTCACAGA
GTAGTGCATCGTGATCTGAAACCGCAGAACATTCTGGTGACCAGCAGTGGACAGATAAAGCTGGCTGACT
TTGGCCTTGCCCGCATCTATAGTTTTAGATGGCCCTTACCTCGGTGGTTCGTCACGCTGTGGTACCGAGC
CCCAGAAGTCCTGCTCCAGTCCAGCTATGCCACCCTGTGGACCTCTGGAGTGTCCGGTTCATCTTTGCA
GAAATGTTTCGCAGAAAGCCTCTTTTTCGTGGAAGTTCAGACGTGGATCAACTAGGAAAAATCTTGACA
TCATTGGACTCCCAGGAGAGGAAGACTGGCCTAGGACGTGGCCCTTCCCGGCAGGCTTTTCATTCCAA
ATCTGCTCAACCCATCGAGAAGTTGTGACAGATATTGACGAAGTACGCAAGACCTACTTCTGAAATGC
CTGACGTTTAAATCCAGCTAAAAGGATATCCGCCTACGGCGCCCTGAATCACCCGTAATCCAAGATCTGG
AGAGATACAAGGACAACCTGAACTCTCACCTGCCATCCAACCGAGACCTCGGAGCTGAACACAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225890 representing NM_009873
Red=Cloning site Green=Tags(s)

MEKDSL SRADQQYECVAEIGEGAYGKVKARDLKNNGRFVALKRVRVQTSEEGMPLSTIREVAVLRHLET
 FEHPNVVRLFDVCTVSRTDRETKLTLVFEHVDQDLTTYLDKVPPEPGVPTETIKDMMFQLLRGLDFLHSHR
 VVHRDLKPQNILVTSSGQIKLADFLGARIYSFQMALTSVVVTLWYRAPEVLLQSSYATPVDLWSVGCIFA
 EMFRRKPLFRGSSDQDLGKILDIIIGLPG EEDWPRDVALPRQAFHKSQAQPIEFVTDIDELGKDLLLKC
 LTFNPAKRI SAYGALNHPYFQDLERYKDNLNSHLP SNQSTSELNTA

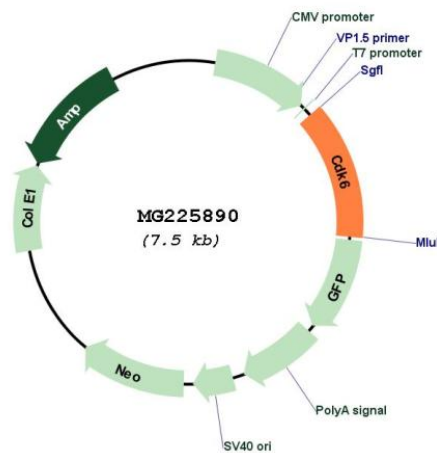
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009873

ORF Size: 978 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_009873.3 , NP_034003.1
RefSeq Size:	2470 bp
RefSeq ORF:	981 bp
Locus ID:	12571
UniProt ID:	Q64261
Cytogenetics:	5 2.04 cM
Gene Summary:	This gene encodes a member of the cyclin dependent kinase family of proteins that play important roles in the progression and regulation of the cell cycle. The encoded protein binds to a D-type cyclin to form an active kinase complex to regulate progression through the G1 phase of the cell cycle. Mice lacking the encoded protein exhibit thymic and splenic hypoplasia, and hematopoietic defects such as reduced number of megakaryocytes and erythrocytes. A pseudogene of this gene has been defined on chromosome 4. [provided by RefSeq, Aug 2015]