

Product datasheet for **RG213705**

CDK10 (NM_052987) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CDK10 (NM_052987) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDK10
Synonyms:	ALSAS; PISSLRE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213705 representing NM_052987 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

CTGGGACGATGCCGGAGTGTGAAGGAGTTTGAAGCTGAACCGCATTGGAGAGGGTACCTACGGCATTG
TGTATCGGGCCCGGACACCCAGACAGATGAGATTGTCGCACTGAAGAAGGTGCGGATGGACAAGGAGAA
GGATGGCATCCCCATCAGCAGCTTGC GGGAGATCACGCTGCTGCCCTGCGTCATCCGAACATCGT
GAGCTGAAGGAGGTGGTTGTGGGAACACCTGGAGAGCATCTTCTGGTATGGTTACTGTGAGCAGG
ACCTGGCCAGCCTCCTGGAGAATATGCCAACACCTTCTCGGAGGCTCAGGTCAAGTGCATCGTGTGCA
GGTGTCCGGGGCTCCAGTATCTGCACAGGAACCTCATTATCCACAGGGACCTGAAGGTTTCCAACCTG
CTCATGACCGACAAGGGTTGTGTGAAGACAGCGGATTTCCGGCTGGCCCGGGCCTATGGTGTCCCAGTAA
AGCCAATGACCCCAAGGTGGTCACTCTCTGGTACCGAGCCCCTGAAGTCTGTTGGGAACCACCACGCA
GACCACCAGCATCGACATGTGGGCTGTGGGCTGCATACTGGCCGAGCTGCTGGCGCACAGGCCTCTTCTC
CCCGCACTTCCGAGATCCACCAGATCGACTTGATCGTGCAGCTGCTGGGCACGCCAGTGAGAATCT
GGCCGGCTTTTCCAAGCTGCCACTGGTCCGCCAGTACAGCCTCCGGAAGCAGCCCTACAACAACCTGAA
GCACAAGTCCCATGGCTGTCCGAGGCCGGGCTGCGCCTGCTGCATTCTTGTTCATGTACGACCCTAAG
AAAAGGGCGACGGCCGGGACTGCCTGGAGAGCTCCTATTTCAAGGAGAAGCCCTACGTCTTCCGATCA
GTGGTGTCTGTGAAGGGTGCCCGGAGCCAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213705 representing NM_052987
Red=Cloning site Green=Tags(s)

LGRCRSVKEFEKLNRIEGEGTYGIVYRARDTQTDEIVALKKVRMDKEKDGIPISLREITLLLRLRHPNIV
 ELKEVVGNHLESIFLVMGYCEQDLASLLENMPTPFSEAQVKCIVLQVLRGLQYLHRNFIIHRDLKVSNL
 LMTDKGCVKTADFLARAYGVPVKPMTPKVVTLWYRAPELLLGTTTQTTSIDMWAVGCILAELLAHRPLL
 PGTSEIHQIDLIVQLLGTPESENIWPGFSKLLPLVGQYSLRKQPYNNLKHKFPWLSEAGLRLLHFLFMYDPK
 KRATAGDCLESSYFKEKPLRLPISGVCEGCREPG

TRTRPLE - GFP Tag - V

Restriction Sites:

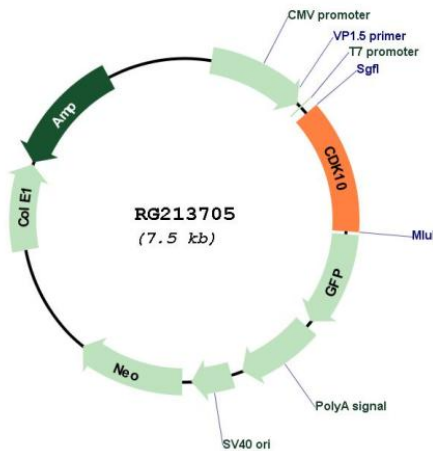
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_052987

ORF Size: 942 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_052987.2 , NP_443713.1
RefSeq Size:	1643 bp
RefSeq ORF:	819 bp
Locus ID:	8558
UniProt ID:	Q15131
Cytogenetics:	16q24.3
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	The protein encoded by this gene belongs to the CDK subfamily of the Ser/Thr protein kinase family. The CDK subfamily members are highly similar to the gene products of <i>S. cerevisiae</i> cdc28, and <i>S. pombe</i> cdc2, and are known to be essential for cell cycle progression. This kinase has been shown to play a role in cellular proliferation and its function is limited to cell cycle G2-M phase. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]