

Product datasheet for **RG202150**

PCTAIRE3 (CDK18) (NM_002596) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCTAIRE3 (CDK18) (NM_002596) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDK18
Synonyms:	PCTAIRE; PCTAIRE3; PCTK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202150 representing NM_002596
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACAAGATGAAGAACTTTAAGCGCCGTTTCTCCCTGTCAGTGCCTCCGCACTGAGACCATTGAAGAAT
 CCTTGGCTGAATTCACGGAGCAATTC AAC CAGCTCCACAACCGCGGAATGAGAAGTTGAGCTCGGTCC
 TCTTGGCAGAGACCCCGCAGGAGTGCAGCACCTTCTCCCAACAGACAGCGGGGAGGACCGGGGCGAG
 CTCTCCCTGGCGTGCAGTTCCAGCGCGGCAGAAC CAGCGCTTCTCCATGGAGGACGT CAGCAAGA
 GGCTCTCTGCCCATGGATATCCGCTGCC CAGGAATCTACAGAAGCTACAGATGGAGAGCCAGA
 TCTGCCAAGCCGCTCAGCCGATGTCCCGCGGGCTCCCTGTCAGACATTGGCTTTGGAAACTGGAA
 ACATACGTGAAACTGGACAACTGGGAGAGGGCACCTATGCCACAGTCTCAAAGGGCGCAGAACTGA
 TGGAGAACCTTGTGGCCCTGAAAGAGATCCGGTGGAGCAGGAGGAGGCGCCCTGACTGCCATCCG
 AGAGGTGTCTGCTGAAGAACCTGAAGCACGCCAATATTGTGACCTGCATGACCTCATCCACACAGAT
 CGGTCCCTCACCTGGTGTGAGTACCTGGACAGTGCCTGAAGCAGTATCTGGACCACTGTGGGAACC
 TCATGAGCATGCACAACGTCAAGATTTTCATGTTCCAGCTGCTCCGGGGCTCGCCTACTGTCACCAACCG
 CAAGATCTGCACCGGGACCTGAAGCCCCAGAACCTGCTCATCAACGAGAGGGGGGAGCTGAAGCTGGCC
 GACTTTGGACTGGCCAGGGCCAAGTCAAGTGC CCAAAAGACTTACTCCAATGAGGTGGTACCCCTGTGGT
 ACAGGCCCCCGATGTGCTGCTGGGATCCACAGAGTACTCCACCCCAATTGATATGTGGGGCGTGGGCTG
 CATCCACTACGAGATGGCCACAGGGAGGCCCTCTCCCGGGCTCCACAGTCAAGGAGGAGCTGCACCTC
 ATCTTTGCGCTCCTCGGGACCCACAGAAGAGACGTGGCCCGGGTACCGCCTTCTCTGAGTTCCGCA
 CCTACAGCTTCCCCTGCTACCTCCCGCAGCCGCTCATCAACCACGCGCCAGGTTGGATACGGATCGGAT
 CCACCTCCTGAGCAGCCTGCTCCTGTATGAATCCAAGAGTCGCATGTCAGCAGAGGCTGCCCTGAGTCAC
 TCTACTTCCGGTCTCTGGGAGAGCGTGTGCACCACTTGAAGACACTGCCTCCATCTTCTCCCTGAAGG
 AGATCCAGCTCCAGAAGGACCCAGGCTACCGAGCTTGGCCTTCCAGCAGCCAGGACGAGGGAAGAACAG
 GCGGCAGAGCATCTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG202150 representing NM_002596
 Red=Cloning site Green=Tags(s)

MNKMKNFKRRFSLVPRTEETIEESLAEFTEQFNQLHNRNENLQLGPLGRDPPQECSTFSPTDSGEEPGQ
 LSPGVQFQRRQNRRFSMEDVSKRLSLPMDIRLPQEFLLQKLMESPDLPKPLSRMSRRASLSDIGFKLE
 TYVKLDKLGEGTYATVFKGRSKLMENLVALKEIRLEHEEGAPCTAIREVSLKLNKLNKHANIVTLHDLIHTD
 RSLTLVFEYLDSDLKQYLDHCGNLSMHNVKIFMFQLLRGLAYCHHRKILHRDLKPQNLINERGELKLA
 DFGLARAKSVPTKYSNEVVTLWYRPPDVLLGSTYEYTPIDMWGVGCIHYEMATGRPLFPGSTVKEELHL
 IFRLLGTPTEETWPGVTAFFSEFRYSFPCYLPQPLINHAPRLDTDGIHLLSSLLLYESKSRMSAEALSH
 SYFRSLGERVHQLDITASIFSLKEIQLQKDPGYRGLAFQQPGRGKNRRQSIF

TRTRPLE – GFP Tag – V

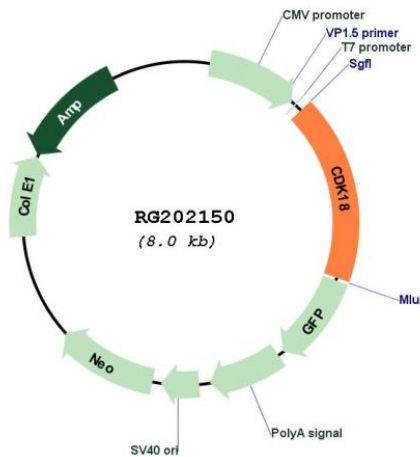
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_002596

ORF Size: 1422 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:

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_002596.2](#), [NP_002587.2](#)

RefSeq Size: 3157 bp

RefSeq ORF: 1425 bp

Locus ID: 5129

UniProt ID: [Q07002](#)

Cytogenetics: 1q32.1

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: May play a role in signal transduction cascades in terminally differentiated cells.
[UniProtKB/Swiss-Prot Function]