

## Product datasheet for **SC308642**

### **PCTAIRE3 (CDK18) (NM\_212502) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PCTAIRE3 (CDK18) (NM_212502) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDK18
Synonyms:	PCTAIRE; PCTAIRE3; PCTK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC308642 representing NM\_212502.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATCATGAACAAGATGAAGAAGCTTTAAGCGCGTTTCTCCCTGTCAGTGCCCCGCACTGAGACCATT
GAAGAATCCTTTGGCTGAATTCACGAGCAATTC AACCGCTCCACAACCGCGGAATGAGAACTTGAG
CTCGGTCTCTTGGCAGAGACCCCCGAGGAGTGCAGCACCTTCTCCCAACAGACAGCGGGAGGAG
CCGGGGCAGCTCTCCCTGGCGTGCAGTTCCAGCGCGGCGAGAACCAGCGCCGCTTCTCCATGGAGGAC
GTCAGCAAGAGGCTCTCTGCCCATGGATATCCGCTGCCCGAGGAATTCCTACAGAAGCTACAGATG
GAGAGCCAGATCTGCCAAGCCGCTCAGCCGCATGTCCCGCGGGCCTCCCTGTCAGACATTGGCTTT
GGGAACTGGAACATACGTGAACTGGACAACTGGGAGAGGGCACCTATGCCACAGTCTTCAAAGGG
CGCAGCAAAGTACGGAGAACCTTGTGGCCCTGAAAGAGATCCGGCTGGAGCACGAGGAGGGAGCGCCC
TGCACTGCCATCCGAGAGGTGTCTGTGAAGAAGCTGAAGCACGCAATATTGTGACCCTGCATGAC
CTCATCCACAGATCGGTCCCTCACCTGGTGTGTTGAGTACCTGGACAGTGACCTGAAGCAGTATCTG
GACCACTGTGGGAACCTCATGAGCATGCACAACGTCAAGATTTTCATGTTCCAGCTGCTCCGGGGCCTC
GCCTACTGTCAACCACCGCAAGATCCTGCACCGGACCTGAAGCCCCAGAACCCTGCTCATCAACGAGAGG
GGGAGCTGAAGCTGGCCGACTTTGGACTGGCCAGGGCCAAGTCAAGTCCCAAAAGACTTACTCCAAT
GAGGTGGTGACCTGTGGTACAGGCCCCCGATGTGCTGCTGGGATCCACAGAGTACTCCACCCCAATT
GATATGTGGGGCGTGGGCTGCATCCACTACGAGATGGCCACAGGGAGGCCCTCTTCCGGGGCTCCACA
GTCAAGGAGGAGTGCACCTCATCTTTCGCTCCTCGGGACCCCAAGAAGAGAGCTGGCCCGCGTG
ACCGCTTCTCTGAGTTCCGACCTACAGCTTCCCCTGCTACCTCCCGCAGCCGCTCATCAACCAGCGG
CCCAGTTGGATACGGATGGCATCCACCTCCTGAGCAGCCTGCTCCTGTATGAATCCAAGAGTCCGATG
TCAGCAGAGGCTGCCCTGAGTCACTCTTCCGGTCTCTGGGAGAGCGTGTGCACCAGCTTGAAGAC
ACTGCCTCCATCTTCTCCCTGAAGGAGATCCAGCTCCAGAAGGACCCAGGCTACCAGGCTTGGCCCTT
CAGCAGCCAGGACGAGGGAAGAACAGGCGGCAGAGCATCTTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:** □

**ACCN:** NM\_212502

**Insert Size:** 1425 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_212502.2](#)

**RefSeq Size:** 3122 bp

**RefSeq ORF:** 1425 bp

**Locus ID:** 5129

**UniProt ID:** [Q07002](#)

**Cytogenetics:** 1q32.1

**Protein Families:** Druggable Genome, Protein Kinase

**MW:** 54.4 kDa

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

Transcript Variant: This variant (2) uses an alternate in-frame splice site in a coding exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a. Variants 2 and 3 both encode isoform b. CCDS Note: This CCDS representation uses the 5'-most in-frame start codon found in the transcript. It should be noted that this start codon has a weak Kozak signal, and its conservation is restricted to primate species, squirrel, rock hyrax and armadillo. Two better conserved potential start codons with stronger Kozak signals are located two and five codons downstream, respectively. It is possible that leaky scanning by ribosomes would allow one of the downstream start codons to be used some of the time. There is no experimental evidence indicating which start codon is preferentially used in vivo.