

## Product datasheet for **SC324635**

### PCTAIRE3 (CDK18) (NM\_002596) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCTAIRE3 (CDK18) (NM_002596) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCTAIRE3
Synonyms:	PCTAIRE; PCTAIRE3; PCTK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_002596.2  
GCTTCTCTGGGAACTGCTCACCTTTCCGGAGCAGGGGAAGCTGCCCGTGCCCGGGGAGG  
GAGCGGGCGCACCGCGGCCCCAGGACACGCGCTGTGAGTCCCAGCGGGCGGTGCGCCTGG  
GAGGAAGGGGGAGGTCGGAGGAGGGGGCACCGCGCGCCGGGTATAAGGAGCAAAGGACC  
CGGCTGCCAGTCCCTCATGATCATGAACAAGATGAAGAAGTTTAAAGCGCGTTTCTCCC  
TGTGAGTCCCCGCACTGAGACATTGAAGAATCCTTGGCTGAATTCACGGAGCAATTC  
ACCAGTCCACAACCGGCGGAATGAGAAGTTGACGCTCGGTCTTGGCAGAGACCCCC  
CGCAGGAGTGCAGCACCTTCTCCCAACAGACAGCGGGGAGGAGCCGGGGCAGCTCTCCC  
CTGGCGTGCAGTCCAGCGGGCAGAACAGCGCGCTTCTCCATGGAGGACGTGACGA  
AGAGGCTCTCTGCCCATGGATATCCGCTGCCAGGAATTCACAGAAGCTACAGA  
TGGAGAGCCAGATCTGCCAAGCGCTCAGCCGATGTCCCAGGGGCTCCCTGTGAG  
ACATTGGCTTTGGGAACTGGAAACATACGTGAACTGGACAAACTGGGAGAGGGCACCT  
ATGCCACAGTCTTCAAAGGGCGCAGAACTGATGGAGAAGCTTGTGGCCCTGAAAGAGA  
TCCGGCTGGAGCAGGAGGGAGCGCCCTGCACTGCCATCCGAGAGGTGTCTCTGCTGA  
AGAACCTGAAGCAGCACAATATTGTGACCCTGCATGACCTCATCCACACAGATCGGTCCC  
TCACCCTGGTGTGAGTACCTGGACAGTACCTGAAGCAGTATCTGGACCACTGTGGGA  
ACCTCATGAGCATGCACAACGTCAAGATTTTCATGTTCCAGCTGCTCCGGGGCTCGCCT  
ACTGTACCACCGCAAGATCCTGCACCGGACCTGAAGCCCCAGAACCTGCTCATCAACG  
AGAGGGGGGAGCTGAAGCTGGCCGACTTTGGACTGGCCAGGGCCAAAGTCAAGTCCCAAA  
AGACTTACTCCAATGAGGTGGTACCCCTGTGGTACAGGCCCCCGATGTGCTGCTGGGAT  
CCACAGAGTACTCCACCCCAATTGATATGTGGGCGTGGGCTGCATCCACTACGAGATGG  
CCACAGGGAGGCCCTTCCCAGGCTCCACAGTCAAGGAGGAGCTGCACCTCATCTTTC  
GCCTCCTCGGGACCCCAAGAGAGACGTGGCCCGGCGTGACCGCCTTCTGAGTTCC  
GCACCTACAGCTTCCCCTGCTACCTCCCGCAGCCGCTCATCAACCACGCGCCAGGTTGG  
ATACGGATGGCATCCACCTCCTGAGCAGCTGCTCCTGTATGAATCCAAGAGTCGATGT  
CAGCAGAGGCTGCCCTGAGTCACTCCTACTTCCGGTCTCTGGGAGAGCGTGTGCCACG  
TTGAAGACTGCCTCCATCTTCTCCCTGAAGGAGATCCAGCTCCAGAAGGACCCAGGCT



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ACCGAGGCTTGGCCTTCCAGCAGCCAGGACGAGGGAAGAACAGGCGGCAGAGCATCTTCT
GAGCCACGCCACCTTGCTGTGGCCAAGGGACAAGAGATCACATGGAGCACAATTCGGG
TAGGATGGAGCCTGTGTGGCCCTCGGAGGACTGAAGAACGAGGGCTGACAGCCAGCCTGG
AAGACCGCTTGGCAGCCCTTCTGGCCACGGCTGTTTCTTTTGTGCTTCCCGTGTGCCT
CCCCAGTAGCCCTCACCTGCATACCAACCCCTCCTTTACCCACGTTGGGGCTGGCATAAG
CTGCTTCCCTGAGAGGACATGAGGGGGGGGGCGTCCGTACCCTCTCCCACCCTGGTGT
TTGGGCACCTGCGTGGGATGCACACGGATGACAGAATCAAGGCGCCAGGATGGGCACCT
GCCCTGGATACAGGCTCTACCCTCTCCCCAGGACCTGCCTAGTGCCAGTTTGGTAGTC
CCCCTTTCTGGCCCTTGGAGCCACACACGTTTCATCTTTTTCCCTCTGAGAGCAAGA
AGAGACATGGCATGTTCTCTGGGACCCTGGAATCCTAGGTACCCACATGTGTGCCAAAGC
CTACCCACCTGGCAGGTGTCCACAGCAACAGAAGGAATAGTAGTCCCCACTCTTTCCA
TCAGCCCTACCCTACCCTATTCCCGACACCCTCTGGCTTGAACCATGGCTGAGCAGTG
CCGGCATAACGCTTGGCCGCATGCTTGGATGCCAGCTGTGTCCAGAGGTGGCCTGGGAC
CGCCAGTTGCACGCTGCCACCTCAGCCAGCCCCCGCCAGCTCATCAGTCTGAATGGAG
TTGCCTTAAATTGGCAGGTGGTACCGTACTCACTGCCCTTGGAGCTGTGACCGGCTCCTG
CCTGTCCACCCCTTCCCAGGTGGCTCCTGCTTACCTTATCATCCCAGGGCTCTGATTAG
CCAGGCCTGGTCAGGGTCTGGGGACGGCACCCAGATATGCAGAGTCACCTGACACTGG
TGCCAGGCTGACCTCAGCTCCCGAAGGCTCGCACAGCATCCCTGTCTACCTTCCCAGCC
CTTGTGGCTCTGTCCACCTGATCCCAATACCAGCTTCCCCAGCCCTGCCACCCAGAG
GGCGGCCACGACAGGGAGAGGTGTAGATGCCACCATCTGAGGGAGAGGAACGTGGAACAG
GAGCAGGCTCTGATGCTGAGAGGCTTGCCTCCGGGGGCTGGAAGCCTGGGTGGCCGGGGC
CCCTGAAGAAGGCTCCCCTCTGTATCCCCAGGTCTCCTCAACTGGGCTGATCCTGAA
TGGCACAGGCCAAGGGGAGGCCAGCCTCGCCTTCTACCAGGCCCTGCCCTGCCAC
CTCAGGCCCCACCCCTCCACTCCTCCCCACGGTACTGTGAACGTGTGACTCAGTGCA
GAGACAGATAATATATTTAATTCATGTACAGAAAAAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_002596
- 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\\_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]

Transcript Variant: This variant (3) differs in the 5' UTR and coding region 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.