

Product datasheet for **SC323457**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323457 sequence for NM_002596 edited (data generated by NextGen Sequencing)
 ATGATCATGAACAAGATGAAGAACTTTAAGCGCCGTTTCTCCCTGTCAGTGCCCCGCACT
 GAGACCATTGAAGAATCCTTGGCTGAATTCACGGAGCAATTAACCAGCTCCACAACCGG
 CGGAATGAGAATTGCAGCTCGGTCTCTTGGCAGAGACCCCCCGAGGAGTGCAGCACC
 TTCTCCCCAACAGACAGCGGGGAGGAGCCGGGGCAGCTCTCCCTGGCGTGCAGTTCAG
 CGCGGGCAGAACACAGCGCCGCTTCTCCATGGAGGACGTCAGCAAGAGGCTCTCTGCCC
 ATGGATATCCGCCTGCCCCAGGAATTCTACAGAAGCTACAGATGGAGAGCCAGATCTG
 CCCAAGCCGCTCAGCCGATGTCCCGCCGGCCTCCCTGTCAGACATTGGCTTTGGGAAA
 CTGGAAACATACGTGAAACTGGACAAACTGGGAGAGGGCACCTATGCCACAGTCTTCAA
 GGGCGCAGCAAAGTACGGAGAACCTTGTGGCCCTGATGGAGATCCGGCTGGAGCAGAG
 GAGGGAGCGCCCTGCACTGCCATCCGAGAGGTGTCTCTGTGAAGAACCTGAAGCAGCC
 AATATTGTGACCCTGCATGACCTCATCCACACAGATCGGTCCCTACCCTGGTGTGAG
 TACCTGGACAGTGACCTGAAGCAGTATCTGGACCACTGTGGGAACCTCATGAGCATGCAC
 AACGTC AAGATTTTCATGTTCCAGCTGCTCCGGGGCCTCGCTACTGTCACCACCGAAG
 ATCCTGCACCCGGACCTGAAGCCCCAGAACCTGCTCATCAACGAGAGGGGGAGCTGAAG
 CTGGCCGACTTTGGACTGGCCAGGGCAAAGTCAGTGCCCAAAAGACTTACTCCAATGAG
 GTGGTGACCCTGTGGTACAGGCCCCCGATGTGCTGCTGGGATCCACAGAGTACTCCACC
 CCCATTGATATGTGGGCGTGGGCTGCATCCACTACGAGATGGCCACAGGGAGGCCCTC
 TTCCCGGGCTCCACAGTCAAGGAGGAGCTGCACCTCATCTTTCGCTCCTCGGGACCCCC
 ACAGAAGAGACGTGGCCCGGCTGACCGCCTTCTCTGAGTTCGCACCTACAGCTTCCCC
 TGCTACCTCCCGCAGCCGCTCATCAACCACGCGCCAGGTTGGATACGGATGGCATCCAC
 CTCTGAGCAGCCTGCTCCTGTATGAATCCAAGAGTGCATGTCAGCAGAGGCTGCCCTG
 AGTCACTCCTACTTCCGGTCTCTGGGAGAGCGTGTGCACCAGCTTGAAGACACTGCCTCC
 ATCTTCTCCCTGAAGGAGATCCAGCTCCAGAAGGACCCAGGCTACCGAGGCTTGGCCTTC
 CAGCAGCCAGGACGAGGGAAGAACAGGCGGCAGAGCATCTTCTGA

Clone variation with respect to NM_002596.3
 518 a=>t;519 a=>g

5' Read Nucleotide Sequence: >OriGene 5' read for mutant NM_002596 unedited
 ACGCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCATTTAGGTGAC
 ACTATAGAATAACAAGCTACTTGTCTTTTTGCAGCGGCCGGAATCGGCACGAGGGCGGCCCCAGGACA
 CGCGCTGTGAGTCCCGCGGGCGGTGCGCTGGGAGGAAGGGGAGGTGAGGAGGGGGCACCGCGGCGC
 CGGGTATATGACAAAGGACCCGGCTGCCATCGCTCATGATCATGAAAAATATGGAGAAGTGGAGGGCCG
 TGTGATGGTGGCGGGGCCCGAACGACTAAGTGGCCAAGCCTTATTGAAAAGGGGGGGGGTGGTTTCG
 AAAAAAC

Kinase Domain Sequence: >SC323457 kinase domain raw sequence. By performing [BLASTX](#) analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation
 TCTGGCACTGGGAGAGGGCACCTATGCCACAGTCTTCAAAGGGCGCAGCAAAGTACGGAGAACCTTGTG
 GCCCTGATGGAGATCCGGCTGGAGCACGAGGAGGGAGCGCCCTGCACTGCCATCCGAGAGGTGTCTCTGC
 TGAAGAACCTGAAGCACGCCAATATTGTGACCTGCATGACCTCATCCACACAGATCGGTCCCTCACCT
 GGTGTTGAGTACCTGGACAGTGACCTGAAGCAGTATCTGGACCA

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 kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.
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_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.