

## Product datasheet for **SC126976**

### **PCTAIRE2 (CDK17) (NM\_002595) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PCTAIRE2 (CDK17) (NM_002595) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCTAIRE2
Synonyms:	PCTAIRE2; PCTK2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC126976 sequence for NM\_002595 edited (data generated by NextGen Sequencing)

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ATGAAAAAATTTAAGAGAAGGCTATCCCTCACACTCCGAGGAAGTCAGACTATTGATGAA
TCATTGTCTGAATTGGCTGAACAAATGACTATTGAAGAAAACAGCAGCAAGGATAATGAG
CCTATTGTGAAGAATGGCAGGCCCTCAACGTCTCACAGTATGCATTCTTCTCCACCAG
TACACAGGATCTTTCAAGAAGCCCCCATTGCGGAGACCACACAGTGTATTGGAGGGAGC
CTTGGCTCCTTCATGGCAATGCCAGAAAATGGAAGCAGATTAGATATTGTTTCATGAAAAT
CTAAAAATGGGATCAGATGGTGAGAGTGACCAAGCTTCTGGGACATCATCTGATGAAGTC
CAGTCACCTACAGGTGTTTGTCTCAGAAAATCGTATACATAGACGGATCTCAATGGAGGAT
TAAATAAGCGGTTATCACTGCCTGCAGACATCAGAATACCTGATGGATATCTTGAAAAG
TTGCAGATAAACAGTCCACCATTGACCAACCAATGAGTCGAAGGTCTCGTAGAGCTTCC
TTATCAGAAAATGGCTTTGGAAAATGGAACTACATCAAATGGAAAAGCTTGGAGAG
GGTACATATGCAACAGTATATAAAGGAAGAAGTAAATTGACAGAGAATTTGGTGGCATTAA
AAAGAGATCCGATTGGAACATGAAGAAGGTGCACCCTGCACAGCTATAAGAGAAGTTTCA
CTATTAAGGATTTAAAACATGCAAATATAGTAACCTTACATGACATTGTTCCACACAGAT
AAATCCTTGACTTTGGTGTGAGTATCTGGATAAAGACCTGAAACAGTACATGGATGAC
TGTGAAAACATCATGAGTATGCACAACGTAAGCTGTTTCTGTACCAAATTTCTACGTGGT
TTGGCATATTGCCATAGAAGAAAGGATTGCATCGAGACTTGAACCACAGAACCCTCCTC
ATTAATGAGAAAGGAGAAATTAAGCTAGCAGATTTTGGACTAGCCCGAGCCAAGTCAGTT
CCCACAAAGACCTACTCAAATGAAGTTGTCACACTATGGTACCGGCCACCTGATGTGCTT
CTTGGTTCCTCGGAGTACTCAACACAGATTGACATGTGGGGTGTGGTTGCATTTTCTTT
GAAATGGCTTCTGGAAGACCTTTATTTCCAGGATCAACCGTGAAGATGAACTGCACCTTA
ATTTTCCGACTGCTAGGAACTCCATCTCAGGAACTTGGCCAGGTATTTCTTCAAATGAG
GAGTTCAAGAACTACAACCTTCCAAAATATAAACCCACAGCTCTAATTAACCACGCACCC
AGGTTAGACTCTGAAGGAATTGAGTTGATAACAAAATTTCTTCAAGTATGAATCTAAGAAA
AGGGTTTCAGCTGAAGAGGCCATGAAACATGTGTACTTTGAAAGTCTGGGACCAAGAATA
CATGCTTTACCAGAAAAGTGTATCAATATTCAGTTTGAAGAGATTGAGTTGCAAAAAGGAC
CCGGGTTTTGAAATTTCTTTATCCAGAGACAGGACATGGGAAGAACAGAAGACAGAGC
ATGCTCTTTTAA
    
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Clone variation with respect to NM\_002595.4

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_002595 unedited
TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCAACGCGTGAGACA
CCCAGCGCCCTCCGAGGCTCCGGACCCGCGGAGAGCCGGAAGGCGGCTGTGGCGGC
GGAGCCCTGCGCTCGGAAGCGCCTCACGTCTGCCGCGGCTGAGACCCGACTTGATCC
GGTCCGCGGGGCTCCGCGGAGCAGCTTCCCCCGCGCCTCTCTCGCCTCGCCTCGGG
ACCCGCGTCCCGCTCTTGCTGGATTTTCAAGCCACATTCAATTGATAGGATGAAAAA
ATTTAAGAGAAGGCTATCCCTCACACTCCGAGGAAGTCAGACTATTGATGAATCATTGTC
TGAATTGGCTGAACAAATGACTATTGAAGAAAACAGCAGCAAGGATAATGAGCCTATTGT
GAAGAATGGCAGGCTCCAACGTCTCACAGTATGCATTCTTCTCCACCAGTACACAGG
ATCTTTCAAGAAGCCCCATTGCGGAGACCACACAGTGTATTGGAGGGAGCCTTGGCTC
CTTCATGGCAATGCCAGAAAATGGAAGCAGATTAGATATTGTTTCATGAAAATCTAAAAAT
GGGATCAGATGGTGAGAGTGACCAAGCTTCTGGGACATCATCTGATGAAGTCCAGTACC
TACAGGGTGTGTTGCTCAGAAAATCGTATACATAGNACGGATCTCAATGGAGGATTTAATA
AGCGGTTATCACTGCCTGCAGAATCANAATACCTGATGGATATCTTNGAAAAGTGCAGAT
AACAGTCCACCATTTGACCACCNATGAGTCGAGGGTCTCGTAAAGCTTCTATAGAAAT
GGCTTGGAAAAGGAACTACATCAATGAAAGCTGNAAGGGGTCATATGCACGTTATAN
GGGAGAAAGTATGCAGAGAATGGTGGCTAAAAGAATCCATGACATTAAGGA
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_002595 unedited CGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAAACAACATGGAGATTTTGT TATTATAAATTTCAAACAAAATGAAGGAATTTCCACATATTTATAACCTTCAAAGTACA ATATTAATACATGTCTGTGAGTTAGAAAGAACAGCAGTTTGTAGGCTACAAGGTTTAAAC ATAAAACCAATTTACAAATGTGAAAAGCAGTAGTGGTCCAATATTCACATTACACATGA ATCTGTTTCTCCAGAATTTTTAAAAATTTAAATTTTAGTATCGTGAAATATTAATAAA CACCCCAAACATGCCACAATCACTATTCACAAAATAAAGTTAAAAAGAAATATACAAAAAT CCACTTAATACTGTTAAATAACAACAATAAACTACAAGATTTCCCTGAACGAAATGGTAG GACCCCTGAATGTTTTACAGTGAATTTTCAGGAAAAGAAATTAAGTTATGACTATTTTCAT GATATATAAGGCAAAAATTTACACGACCATTTCAAATATACCAATTAAGATTTATAGTT TGTAAGATGCACTAAACAATAGTCCTTAAAAGTGAACAAAAATGCTTAAATACTGTTA CCAACACCAAAGTGTTTATGATGTTCAAAGAGATGCATAATTAATACTAATATTTAGT ATCTCTGGTAAACAGATAATACCCACAATAATTTCAAGCAATCCTGTAAAGTCTCATTTT TCTTGNNTGAAATATCATGGCTCATTTCAAGACATATTACAGCTTTTCAGCTGATCCAG TGAAATGTATTGAACACATAGCCCCAAATGAAAGAAGTATCCCCATGAATATCATNCTT TCTATAAATAAATGTATTTAAACAACAAGCAGACCTTTCCGTTNGACAGACTCTACGGTT AGTTTTACTAATTTAAACACATGTAATAGGTAGTGTGTTAGTTACAATACCAGTATATGCG AGCGTTCTAGTGAGGACCATAAATAAATAATTGGACTTATTGTGGGCTATGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002595
<b>Insert Size:</b>	3900 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_002595.2</a> , <a href="#">NP_002586.2</a>
<b>RefSeq Size:</b>	4041 bp
<b>RefSeq ORF:</b>	1572 bp
<b>Locus ID:</b>	5128
<b>UniProt ID:</b>	<a href="#">Q00537</a>
<b>Cytogenetics:</b>	12q23.1
<b>Domains:</b>	pkinase, TyrKc, S_TKc

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

**Gene Summary:** The protein encoded by this gene belongs to the cdc2/cdkx subfamily of the ser/thr family of protein kinases. It has similarity to a rat protein that is thought to play a role in terminally differentiated neurons. Alternatively spliced transcript variants encoding different isoforms have been found. [provided by RefSeq, Jul 2010]  
Transcript Variant: This variant (1) represents the longer transcript and encodes isoform 1.