

## Product datasheet for **SC323582**

### PCTAIRE1 (CDK16) (NM\_033018) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | PCTAIRE1 (CDK16) (NM_033018) Human Untagged Clone   |
| Tag:                      | Tag Free  |
| Symbol:                   | PCTAIRE1  |
| Synonyms:                 | PCTAIRE; PCTAIRE1; PCTGAIRE; PCTK1  |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u>pCMV6-XL4</u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_033018, the custom clone sequence may differ by one or more nucleotides |

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ATGCAGTCCGAGATCGCCATGGATCGGATGAAGAAGATCAAACGGCAGCTGTCAATGACACTCCGAGGTG
GCCGAGGCATAGACAAGACCAATGGTGCCCTGAGCAGATAGGCCTGGATGAGAGTGGTGGTGGCGG
CAGTGACCCTGGAGAGGCCCCACACGTGCTGCTCCTGGGAACTTCGTTCTGCACGGGGCCCACTCAGC
TCTGCACCAGAGATTGTGCACGAGGACTGAAGATGGGGTCTGATGGGGAGAGTGACCAGGCTTCAGCCA
CGTCTCGGATGAGGTGCAGTCTCCAGTGAGAGTGCATGCGCAACCATCCCCACGCAAGATCTCCAC
TGAGGACATCAACAAGCGCCTATCACTACCAGTGACATCCGGCTGCCTGAGGGTACCTGGAGAAGCTG
ACCCTCAATAGCCCCATCTTTGACAAGCCCTCAGCCCGCCCTCCGTCGTGTCAGCCTATCTGAGATTG
GCTTTGGGAAACTGGAGACCTACATTAAGCTGGACAACTGGGGCAGGGTACCTATGCCACCGTCTACAA
AGGCAAAAGCAAGCTCACAGACAACCTTGTGGCACTCAAGGAGATCAGACTGGAACATGAAGAGGGGGCA
CCCTGCACCGCCATCCGGGAAGTGTCCCTGCTCAAGGACCTCAAACACGCCAACATCGTTACGCTACATG
ACATTATCCACACGGAGAAGTCCCTCACCTTGTCTTTGAGTACCTGGACAAGGACCTGAAGCAGTACCT
GGATGACTGTGGGAACATCATCAACATGCACAACGTGAACTGTTCTGTTCCAGCTGCTCCGTGGCCTG
GCCTACTGCCACCGGCAGAAGGTGCTACACCGAGACCTCAAGCCCCAGAACCTGCTCATCAACGAGAGGG
GAGAGCTCAAGCTGGCTGACTTTGGCCTGGCCCCGAGCCAAGTCAATCCCAACAAAGACATACTCCAATGA
GGTGGTGACACTGTGGTACCGGCCCTGACATCCTGCTTGGGTCCACGGACTACTCCACTCAGATTGAC
ATGTGGGGTGTGGCTGCATCTTCTATGAGATGGCCACAGGCCGTCCTCTTTCCGGGCTCCACGGTGG
AGGAACAGCTACACTTCTTCCGTATCTTAGGAACCCCAACTGAGGAGACGTGGCCAGGCATCTGTGTC
CAACGAGGAGTTCAAGACATACTACTCCCAAGTACCGAGCCGAGGCCCTTTTGGAGCCACGCCACCCGA
CTTGATAGCGACGGGGCCGACCTCTCACAAGCTGTTGCAGTTTGGGGTCGAAATCGGATCTCCGCAG
AGGATGCCATGAAACATCCATTCTCTCAGTCTGGGGAGCGGATCCACAACTTCTGACACTACTTC
CATATTTGCACTAAAGGAGATTCAGCTACAAAAGGAGGCCAGCCTTCGGTCTTCGTGATGCCTGACTCA
GGCAGGCCAGCTTCCGCTGGTGGACACCGAGTCTAA
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|                                     |  |
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| <b>5' Read Nucleotide Sequence:</b> | >OriGene 5' read for mutant NM_033018 unedited<br>ACCGCCCGTACAGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTTCTATATAAGCAGAGCTCGTTTAGTT<br>GAACCGTCAGAATCTTGTAAATACGACTCACTATAGGGCGGCCGGAATACGGCACGAGCCTCCCAAGCA<br>CCTCAAGGACTAGAAGTGAAGCGCTTCAATTTGTCTTTTTTCTCCTTGCAAAAAGTCCCGTATGCCACCAT<br>GGGGATGTACCAAGTGAAGCCGAGTAGGGGAACGAGTGGTGATTGACGCGCCAGTTACTGGCCACTGC<br>TCACCTAGGCGCTAGCAAATTTCTGCCAAGATCGGGAAGTGAAGTAAACAGCCCTCCACAGTTTCTC<br>CCTGGTGCCGCTCCGGCTTGGCGCCGCATCCTCCTCTGGGCTTCGCGATTGCCCGCTCCCCCTCCCC<br>GCTGCGCGGAACGGGTTCTTTTGTTCACATGCGCAGTCCGAGAAATCCGCCTATGATATCCGAAATGAA<br>AAAGATATCCAAACGGCAAGCTGTCATTGACCCTCCCAAGAGGTGGGCCAGAGGTAAAAACAAGAACCA<br>ATGGTCCCTGGACCAAATAGGCCTGATTAATTTGGTGGGGGGTGGCGAATGTCACCCGGGGAAGAG<br>CCCCCACCTGTGTGGCCCGGGGGAAATTTGTTTGGCCGGGGGCCCTCTCCTGTACCAAAAAAT<br>TTGCCCAAGAAGTTTTGAATAATGTCTTCTAATGAAAAGATAAACCTCTTACCCGTGTCTGAGAAGAG<br>GTCGATCCCTGAGAGAGTTATGCGCCCATCTCCCGCCGATTCTCTGAGGGATATTAACGCCATATA<br>CTCACTGCATCTCTGGCTCGAGAGCTCGTAAAGACTCACTATACCCTCTTGATGAACCCCTGCGCCCG<br>TCCGTTGGCACATTTAGATAGCTGTGAGAGCGACTCAATTAGCAACAGCGAGGAGATTACGGCTTCA<br>AGAGAGGAGTCACT |
| <b>Kinase Domain Sequence:</b>      | >SC323582 kinase domain raw sequence. By performing <a href="#">BLASTX</a> analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation<br>TSTGGCAGCTGGGCGAGGTACCTATGCCRCCTKACAAAGGCRAAGCAAGCTCACAGACAACCTTGT<br>GGCACTCATGGAGATCAGACTGGAACATGAAGAGGGGCCACCCTGCACCCCATCCGGGAAGTGTCCCTG<br>CTCAAGGACCTCAAACACGCCAACATCGTTACGCTACATGACATTATCCACACGGAGAAGTCCCTACCC<br>TTGTCTTTGAGTACCTGGACAAGGACCTGAAGCAGTACCTGGATG   |
| <b>Restriction Sites:</b>           | Please inquire   |
| <b>ACCN:</b>                        | NM_033018  |
| <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>OTI Annotation:</b>              | 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." <a href="#">Cell, 2008 May p536-548.</a>   |
| <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_033018.2</a> , <a href="#">NP_148978.1</a>  |
| <b>RefSeq Size:</b>                 | 3280 bp  |

|                   |   |
|-------------------|---|
| RefSeq ORF:       | 1491 bp   |
| Locus ID:         | 5127  |
| UniProt ID:       | <a href="#">Q00536</a>  |
| Cytogenetics:     | Xp11.3  |
| Domains:          | pkinase, TyrKc, S_TKc   |
| Protein Families: | Druggable Genome, Protein Kinase  |
| Gene Summary:     | <p>The protein encoded by this gene belongs to the cdc2/cdkx subfamily of the ser/thr family of protein kinases. It may play a role in signal transduction cascades in terminally differentiated cells; in exocytosis; and in transport of secretory cargo from the endoplasmic reticulum. This gene is thought to escape X inactivation. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2009]</p> <p>Transcript Variant: This variant (2) uses an alternate exon in the 5' UTR and 5' coding region, compared to variant 1. It encodes isoform 2, which has a longer and distinct N-terminus, compared to isoform 1.</p> |