

Product datasheet for **SC323507**

PCTAIRE1 (CDK16) (NM_006201) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCTAIRE1 (CDK16) (NM_006201) 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)



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Fully Sequenced ORF: >OriGene ORF within SC323507 sequence for NM_006201 edited (data generated by NextGen Sequencing)
 ATGGATCGGATGAAGAAGATCAAACGGCAGCTGTCAATGACACTCCGAGGTGGCCGAGGC
 ATAGACAAGACCAATGGTGCCCTGAGCAGATAGGCCTGGATGAGAGTGGTGGTGGC
 GGCAGTGACCCTGGAGAGGCCCCACACGTGCTGCTCTGGGAACTTCGTTCTGCACGG
 GGCCCACTCAGCTCTGCACCAGAGATTGTGCACGAGGACTTGAAGATGGGGTCTGATGGG
 GAGAGTGACCAGGCTTCAGCCACGTCTCGGATGAGGTGCAGTCTCCAGTGAGAGTGCCT
 ATGCGCAACCATCCCCACGCAAGATCTCCACTGAGGACATCAACAAGCGCCTATCACTA
 CCAGCTGACATCCGGCTGCCTGAGGGCTACCTGGAGAAGCTGACCCTCAATAGCCCCATC
 TTTGACAAGCCCCTCAGCCGCCCTCCGTCGTGTGAGCCTATCTGAGATTGGCTTTGGG
 AAAGTGGAGACCTACATTAAGCTGGACAACTGGGCGAGGGTACCTATGCCACCGTCTAC
 AAAGGCAAAGCAAGCTCACAGACAACCTTGTGGCACTCATGGAGATCAGACTGGAACAT
 GAAGAGGGGGCACCTGCACCGCCATCCGGGAAGTGTCCCTGCTCAAGGACCTCAAACAC
 GCCAACATCGTTACGCTACATGACATTATCCACACGGAGAAGTCCCTCACCTTGTCTTT
 GAGTACCTGGACAAGGACCTGAAGCAGTACCTGGATGACTGTGGGAACATCATCAACATG
 CACAACGTGAAACTGTTCTGTTCCAGCTGCTCCGTGGCCTGGCCTACTGCCACCGGCAG
 AAGGTGCTACACCGAGACCTCAAGCCCCAGAACCTGCTCATCAACGAGAGGGGAGAGCTC
 AAGCTGGCTGACTTTGGCCTGGCCCGAGCCAAGTCAATCCCAACAAGACATACTCCAAT
 GAGGTGGTGACTGTGGTACCGGCCCTGACATCCTGCTTGGGTCCACGGACTACTCC
 ACTCAGATTGACATGTGGGGTGTGGGCTGCATCTTCTATGAGATGGCCACAGGCCGTCCT
 CTCTTTCCGGGCTCCACGGTGGAGGAACAGCTACACTTCATCTTCCGTATCTTAGGAACC
 CCAACTGAGGAGACGTGGCCAGGCATCCTGTCCAACGAGGAGTTCAAGACATAACAAC
 CCCAAGTACCGAGCCGAGGCCCTTTTGGCCACGACCCCGCACTTGATAGCGACGGGGCC
 GACCTCCTCACCAAGCTGTTGCAGTTTGGGGTGCAGGATCGGATCTCCGACAGAGGATGCC
 ATGAAACATCCATTCTTCTCAGTCTGGGGGAGCGGATCCACAACTTCTGACACTACT
 TCCATATTTGACTAAAGGAGATTACAGTACAAAAGGAGGCCAGCCTTCGGTCTTCGTCG
 ATGCTGACTCAGGCAGGCCAGCTTTCCGCGTGGTGGACACCGAGTTCTAA

Clone variation with respect to NM_006201.4
 581 a=>t

5' Read Nucleotide Sequence: >OriGene 5' read for mutant NM_006201 unedited
 ACCGCCGTTGAGCAATGGGCGGTAGGCGGTGACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA
 CCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGCAATTTCGGCACGAGGCCGCCCCAGGGCC
 GCCGCGCCGGCCCGCGGCTCTGAGGTTGCTCGCGCGCCCGCCGATCGCCATGGATCGGATGAAGAAG
 ATCAAACGGCAGCTGTCAATGACACTCCGAGGTGGCCGAGGCATAGACAAGACCAATGGTCCCCCTGAGC
 AGATAGGCCTGGATGAGAGTGGTGGTGGTGGCGGCGAGTACCCCTGGAGAGCCCCCACACAGTGTCTC
 CTGGGGAACCTTCGTTCTGCACGGGGCCCACTCAGCTCTGCACCAAAAATTGTGACAAGGACTTTGAGAA
 TGGGGTCTGATGGGAAGAGTGACCAGCCTTCAGCAACTTCTCCTCGGTGAAGGTGCAGTCTCCGGTGGAGGG
 GGTAATGGCCCCCATCCCCACCAAGAATCTCACTGGGGGATTACCAAGCCTAATCCCAAAGCTGACCA
 TCGGTGCTGAAGGGATCTGGGAAAATCGACCCATAACCCCTTTGAAAAACCTCTCCCCGCGCCTCGT
 GTGCCCTATGAAAAGTTTGGAAAAGGGACCCATTTCTCGGACAGGGGAGAGCCCTGCCCTCAAGGAA
 CACTCTACACCTTGGCCTGGGTATACAGGACAGAGGGCCGCGCCTCTGAGATTGCTCGACCTCACCCAT
 CTCCTATATAACGGAGACTCCCTTTTTTATTCCGACGCACTGCGATGGGACTCAAACACGAGTCTGTC
 TCATCGTCATACACGAGGCC

Kinase Domain Sequence: >SC323507 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
 TMCYKGGCACTGGGCGAGGGTACCTATGCCACCGTCTACAAAGGSAAAAGCAAGCTCACAGACAACCTTG
 TGGCACTCATGGAGATCAGACTGGAACATGAAGAGGGGGCACCTGCACCGCCATCCGGGAAGTGTCCCT
 GCTCAAGGACCTCAAACACGCCAACATCGTTACGCTACATGACATTATCCACACGGAGAAGTCCCTCACC
 CTTGCTTTGAGTACCTGGACAAGGACCTGAAGCAGTACCTGGAT

Restriction Sites:	Please inquire
ACCN:	NM_006201
Insert Size:	1880 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 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_006201.3 , NP_006192.1
RefSeq Size:	3130 bp
RefSeq ORF:	1491 bp
Locus ID:	5127
UniProt ID:	Q00536
Cytogenetics:	Xp11.3
Domains:	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 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] Transcript Variant: This variant (1) encodes the shortest isoform (1).