OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC323462

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:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>NCBI ORF sequence for NM_002595, the custom clone sequence may differ by one or more nucleotides

ATGAAAAAATTTAAGAGAAGGCTATCCCTCACACTCCGAGGAAGTCAGACTATTGATGAATCATTGTCTG
AATTGGCTGAACAAATGACTATTGAAGAAAACAGCAGCAAGGATAATGAGCCTATTGTGAAGAATGGCAG
GCCTCCAACGTCTCACAGTATGCATTCCTTCCTCCACCAGTACACAGGATCTTTCAAGAAGCCCCCATTG
CGGAGACCACACAGTGTTATTGGAGGGAGCCTTGGCTCCTTCATGGCAATGCCCAGAAATGGAAGCAGAT
TAGATATTGTTCATGAAAATCTAAAAATGGGATCAGATGGTGAGAGTGACCAAGCTTCTGGGACATCATC
TGATGAAGTCCAGTCACCTACAGGTGTTTGTCTCAGAAATCGTATACATAGACGGATCTCAATGGAGGAT
TTAAATAAGCGGTTATCACTGCCTGCAGACATCAGAATACCTGATGGATATCTTGAAAAGTTGCAGATAA
ACAGTCCACCATTTGACCAACCAATGAGTCGAAGGTCTCGTAGAGCTTCCTTATCAGAAATTGGCTTTGG
AAAAATGGAAACCTACATCAAATTGGAAAAGCTTGGAGAGGGTACATATGCAACAGTATATAAAGGAAGA
AGTAAATTGACAGAGAATTTGGTGGCATTAAAAGAGATCCGATTGGAACATGAAGAAGGTGCACCCTGCA
CAGCTATAAGAGAAGTTTCACTATTAAAGGATTTAAAACATGCAAATATAGTAACCTTACATGACATTGT
TCACACAGATAAATCCTTGACTTTGGTGTTTGAGTATCTGGATAAAGACCTGAAACAGTACATGGATGAC
TGTGGAAACATCATGAGTATGCACAACGTAAAGCTGTTTCTGTACCAAATTCTACGTGGTTTGGCATATT
GCCATAGAAGAAAGGTATTGCATCGAGACTTGAAACCACAGAACCTCCTCATTAATGAGAAAGGAGAATT
AAAGCTAGCAGATTTTGGACTAGCCCGAGCCAAGTCAGTTCCCACAAAGACCTACTCAAATGAAGTTGTC
ACACTATGGTACCGGCCACCTGATGTGCTTCTTGGTTCCTCGGAGTACTCAACACAGATTGACATGTGGG
GTGTTGGTTGCATTTTCTTTGAAATGGCTTCTGGAAGACCTTTATTTCCAGGATCAACCGTGGAAGATGA
ACTGCACTTAATTTTCCGACTGCTAGGAACTCCATCTCAGGAAACTTGGCCAGGTATTTCTTCAAATGAG
GAGTTCAAGAACTACAACTTTCCAAAATATAAACCACAGCCTCTAATTAACCACGCACCCAGGTTAGACT
CTGAAGGAATTGAGTTGATAACAAAATTTCTTCAGTATGAATCTAAGAAAAGGGTTTCAGCTGAAGAGGC
CATGAAACATGTGTACTTTCGAAGTCTGGGACCAAGAATACATGCTTTACCAGAAAGTGTATCAATATTC
AGTTTGAAAGAGATTCAGTTGCAAAAGGACCCGGGTTTTCGAAATTCTTCTTATCCAGAGACAGGACATG
GGAAGAACAGAAGACAGAGCATGCTCTTTTAA

5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_002595 unedited
ACGCCGTTCAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAAC
CGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGTGAAAGCGACGCACA
CGCAAGGAGCGAACGCGGCCGCCCGCAGTCTCCTGAGCTCCCCGCGGGCCGCCGCAGAGCCGCGGAGAAG
GAGCCAGCGCCCGGCCAGACAGTCTCAGCCCGCCGTCGGCGCCCGCCGCGCTCGCGCCCGGCTGCTCCGA
GGGGATTAGTGGGCCGTCCGCGCGGCTCGTCGGCGCGGGAGCCATGTTGACCGAGGGACTTTGGCAACGC
GTGAGACACCCGCGGCCCCTCCCGGAGGCTCCGGACCCGCGGCCGAGAGCCCGGAAAGGCGGCTGGTGGC
GGCCGGAAGCCCTGCCGCTCGGAGCCGCCTCCACGTTCTGCCGGCCGCTGAAAACCCGGACTGGCATCCG
GTCCGCCCCGGGCGTCCGGCGGAACAGCTTTCCCCCGGCGCCTTCTTTCGCTTCGCCTCGGAACCGGGGG
TCCCCGCTCTGGTGGAATTTTCAAGCCCATTCATTGTGTGGATGAAAATTTGAGAAGGGCATCCTCACCT
CGGAAATCGACACTGAGAAACTATGCGAGATGGGCGACCATGCACTGAGAGACCGGCCGGGATGGGA

Kinase Domain Sequence:

>SC323462 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI refernce protein database, you can confirm the presence of the kinase-deficient mutation
TYWTGKKGAARYTGGAGAGGGTACATATGCAACAGTATATAAAGGAAGAAGTAAATTGACAGASMATTTG
GTGGCATTAATGGAGATCCGATTGGAACATGAAGAAGGTGCACCCTGCACAGCTATAAGAGAAGTTTCAC
TATTAAAGGATTTAAAACATGCAAATATAGTAACCTTACATGACATTGTTCACACAGATAAATCCTTGAC
TTTGGTGTTTGAGTATCTGGATAAAGACCTGAAACAGTACATGGA

Restriction Sites: Please inquire

ACCN: NM_002595

Insert Size: 3900 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:	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_002595.2, NP_002586.2
RefSeq Size:	4041 bp
RefSeq ORF:	1572 bp
Locus ID:	5128
UniProt ID:	Q00537
Cytogenetics:	12q23.1
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 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.