

Product datasheet for **SC328931**

PCTAIRE1 (CDK16) (NM_001170460) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCTAIRE1 (CDK16) (NM_001170460) Human Untagged Clone
Tag:	Tag Free
Symbol:	CDK16
Synonyms:	PCTAIRE; PCTAIRE1; PCTGAIRE; PCTK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

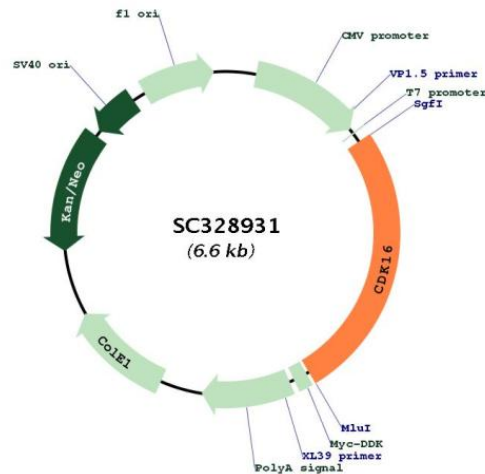


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Fully Sequenced ORF: >SC328931 representing NM_001170460.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCACTCTATGGCCGTGCTCGAGACCATGTCACCCATCCTTCAATTCTGGGCACACGCCCTGGCCGA
CCCATGGCTGGGCCCATCACTGCAGCTGTACCTGAGAAGATCTGCAATGGAGCCTTCTGCTCCTGCAGT
GGGGCTTTTCCCCTAGATCCCAACAATCCATCGTTAGGGCCCTTGCCCTCAATCAGCCACCTAAATCTG
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TACTCCAATGAGGTGGTACACTGTGGTACCGCCCCCTGACATCCTGCTTGGGTCCACGGACTACTCC
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CCAGGCATCCTGTCCAACGAGGAGTTCAAGACATACTAACTACCCCAAGTACCGAGCCGAGGCCCTTTTG
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CTTCTGACACTACTCCATATTTGCACTAAAGGAGATTCAGCTACAAAAGGAGGCCAGCCTTCGGTCT
TCGTGATGCCTGACTCAGGCAGGCCAGCTTCCGCGTGGTGGACACCGAGTTCTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001170460

Insert Size: 1713 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001170460.1](#)

RefSeq Size: 3034 bp

RefSeq ORF: 1713 bp

Locus ID: 5127

UniProt ID: [Q00536](#)

Cytogenetics: Xp11.3

Protein Families: Druggable Genome, Protein Kinase

MW: 63.5 kDa

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 (3) uses an alternate exon in the 5' UTR and 5' coding region, compared to variant 1. It encodes isoform 3, which has a longer and distinct N-terminus, compared to isoform 1.