

Product datasheet for **RG230293**

PCTAIRE1 (CDK16) (NM_001170460) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCTAIRE1 (CDK16) (NM_001170460) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCTAIRE1
Synonyms:	PCTAIRE; PCTAIRE1; PCTGAIRE; PCTK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230293 representing NM_001170460
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACTCTATGGCCGTGCTCGAGACCATGTCACCCATCCTTCAATTCTGGGCACACGCCCTGGCCGAC
 CCATGGCTGGGCCATCACTGCAGCTGTACCTGAGAAGATCTGCAATGGAGCCTTCTGCTCTGCAGTGG
 GGCTTTTCCCCTAGATCCCAACAATCCATCGTTAGGGCCCTTGCCTCAATCAGCCACCTAAATCTGAGA
 ACTCAGATCGCCATGGATCGGATGAAGAAGATCAAACGGCAGCTGTCAATGACACTCCGAGGTGGCCGAG
 GCATAGACAAGACCAATGGTGCCCTGAGCAGATAGGCCCTGGATGAGAGTGGTGGTGGCGGCAGTGA
 CCCTGGAGAGGCCCCACACGTGCTGCTCTGGGAACTCGTTCTGCACGGGGCCCACTCAGCTCTGCA
 CCAGAGATTGTGCACGAGGACTTGAAGATGGGGTCTGATGGGGAGAGTGACCAGGCTTCAGCCACGTCT
 CGGATGAGGTGCAGTCTCCAGTGAGAGTGCATGCGCAACCATCCCCACGCAAGATCTCCACTGAGGA
 CATCAACAAGCGCTATCACTACCAGCTGACATCCGGCTGCCTGAGGGCTACCTGGAGAAGCTGACCCTC
 AATAGCCCCATCTTTGACAAGCCCTCAGCCGCCCTCCGTCTGTGAGCCTATCTGAGATTGGCTTTG
 GGAAACTGGAGACCTACATTAAGCTGGACAAACTGGGCGAGGGTACCTATGCCACCGTCTACAAAGGCAA
 AAGCAAGCTCACAGACAACCTTGTGGCACTCAAGGAGATCAGACTGGAACATGAAGAGGGGGCACCTGC
 ACCGCCATCCGGGAAGTGTCCCTGCTCAAGGACCTCAAACACGCCAACATCGTTACGCTACATGACATTA
 TCCACACGGAGAAGTCCCTCACCTTGTCTTTGAGTACCTGGACAAGGACCTGAAGCAGTACCTGGATGA
 CTGTGGGAACATCATCAACATGCACAACGTGAACTGTTCTGTCCAGCTGCTCCGTGGCTGGCTAC
 TGCCACCGGCAGAAGGTGCTACACCGAGACCTCAAGCCCCAGAACCTGCTCATCAACGAGAGGGGAGAGC
 TCAAGCTGGCTGACTTTGGCCTGGCCCGAGCCAAGTCAATCCCAACAAGACATACTCCAATGAGGTGGT
 GACACTGTGGTACCGGCCCTGACATCCTGCTTGGGTCCACGGACTACTCCACTCAGATTGACATGTGG
 GGTGTGGGCTGCATCTTCTATGAGATGGCCACAGGCCCTCCCTCTTTCCGGGCTCCACGGTGGAGGAAC
 AGCTACACTTCATCTTCCGTATCTTAGGAACCCCAACTGAGGAGACGTGGCCAGGCATCCTGTCCAACGA
 GGAGTTCAAGACATACTACCCCAAGTACCGAGCCGAGGCCCTTTGAGCCACGCACCCCGACTTGAT
 AGCGACGGGGCCGACCTCCTCACCAAGCTGTTGCAGTTTGGGGTCAAATCGGATCTCCGAGAGGATG
 CCATGAAACATCCATTCTCCTCAGTCTGGGGAGCGGATCCACAACTCCTGACACTACTTCCATATT
 TGCCTAAAGGAGATTGAGTACAAAAGGAGGCCAGCCTTCGGTCTTCGTCGATGCCTGACTCAGGCAGG
 CCAGCTTCCGCGTGGTGGACACCGAGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230293 representing NM_001170460
 Red=Cloning site Green=Tags(s)

MPLYGRARDHVTHPSILGTRPGRPMAGPITAAVPEKICNGAFCSCSGAFPLDPNPNPLGPLPSISHLNLR
 TQIAMDRMKKIKRQLSMTLRGGRGIDKTNGAPEQIGLDESGGGGSDPGEAPTRAAPGELRSARGPLSSA
 PEIVHEDLKMGSQSDQASATSSDEVQSPVVRMRNHPPRKISTEDINKRLSLPADIRLPEGYLEKLT
 NSPIFDKPLSRRLRRVSLSEIGFGKLETYIKLDKLGEGTYATVYKGSKSLTDNLVALKEIRLEHEEGAPC
 TAIREVSLKLDLKHANIVTLHDIHTEKSLTLVFEYLDKDLKQYLDCCGNIINMHNVKLFLFQLLRGLAY
 CHRQKVLHRDLKPQNLLINERGELKLADFLARAKSIPTKYSNEVVTLWYRPPDILLGSTDYSTQIDMW
 GVGCI FYEMATGRPLFPGSTVEEQLHFIFRILGTPTEETWPGILSNEEFKTYNPKYRAEALLSHAPRLD
 SDGADLLTKLLQFEGRNRISAEDAMKHPFFLSLGERIHKLPDTTISIFALKEIQLQKEASLRSSMPDSGR
 PAFRVVDTEF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001170460

ORF Size: 1710 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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](#), [NP_001163931.1](#)

RefSeq Size: 3034 bp

RefSeq ORF: 1713 bp

Locus ID: 5127

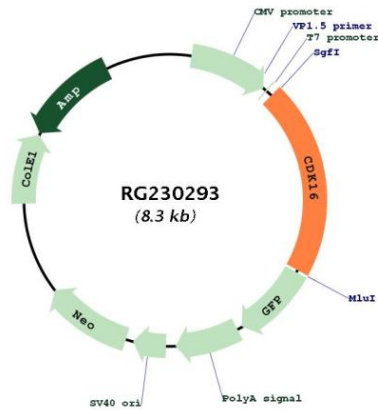
UniProt ID: [Q00536](#)

Cytogenetics: Xp11.3

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]

Product images:



Circular map for RG230293