

## Product datasheet for **RG213327**

### **PCTAIRE3 (CDK18) (NM\_212502) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PCTAIRE3 (CDK18) (NM_212502) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCTAIRE3
Synonyms:	PCTAIRE; PCTAIRE3; PCTK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG213327 representing NM\_212502  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAACAAGATGAAGAACTTTAAGCGCCGTTTCTCCCTGTCAGTGCCTCCGCACTGAGACCATTGAAGAAT  
 CCTTGGCTGAATTCACGGAGCAATTCAACCAGCTCCACAACCGCGGAATGAGAAGTTGAGCTCGGTCC  
 TCTTGGCAGAGACCCCCGAGGAGTGCAGCACCTTCTCCCAACAGACAGCGGGGAGGACCGGGGCGAG  
 CTCTCCCTGGCGTGCAGTTCCAGCGCGGCAGAACAGCGCCGCTTCTCCATGGAGGACGTGAGCAAGA  
 GGCTCTCTGCCCATGGATATCCGCTGCCAGGAATCTACAGAAGCTACAGATGGAGAGCCAGA  
 TCTGCCAAGCCGCTCAGCCGATGTCCCGCGGGCTCCCTGTCAGACATTGGCTTTGGAAACTGGAA  
 ACATACGTGAACTGGACAACTGGGAGAGGGCACCTATGCCACAGTCTCAAAGGGCGCAGAACTGA  
 TGGAGAACCTTGTGGCCCTGAAAGAGATCCGGTGGAGCAGGAGGAGGGCCCTGACTGCCATCCG  
 AGAGGTGTCTGCTGAAGAACCTGAAGCACGCCAATATTGTGACCTGCATGACCTCATCCACACAGAT  
 CGGTCCCTCACCTGGTGTGAGTACCTGGACAGTGCCTGAAGCAGTATCTGGACCACTGTGGGAACC  
 TCATGAGCATGCAACAACGTCAGATTTTCATGTTCCAGCTGCTCCGGGGCTCGCCTACTGTCACCAACCG  
 CAAGATCTGCACCGGGACCTGAAGCCCCAGAACCTGCTCATCAACGAGAGGGGGGAGCTGAAGCTGGCC  
 GACTTTGGACTGGCCAGGGCCAAGTCACTGCCACAAAGACTTACTCCAATGAGGTGGTACCCCTGTGGT  
 ACAGGCCCCCGATGTGCTGCTGGGATCCACAGAGTACTCCACCCCAATTGATATGTGGGGCGTGGGCTG  
 CATCCACTACGAGATGGCCACAGGGAGGCCCTTCCCGGGCTCCACAGTCAAGGAGGAGCTGCACCTC  
 ATCTTTGCGCTCCTCGGGACCCACAGAAGAGACGTGGCCGGGGTACCGCTTCTCTGAGTTCCGCA  
 CCTACAGCTTCCCCTGCTACCTCCGCGAGCCGCTCATCAACCACGCGCCAGGTTGGATACGGATGAGTCA  
 CCACCTCCTGAGCAGCCTGCTCCTGTATGAATCCAAGAGTCGCATGTCAGCAGAGGCTGCCCTGAGTCAC  
 TCTACTTCCGGTCTCTGGGAGAGCGTGTGACCAAGCTTGAAGACTGCCTCCATCTTCTCCCTGAAGG  
 AGATCCAGCTCCAGAAGGACCCAGGCTACCGAGGCTTGGCCTTCCAGCAGCCAGGACGAGGGAAGAACAG  
 GCGGCAGAGCATCTTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG213327 representing NM\_212502  
 Red=Cloning site Green=Tags(s)

MNKMKNFKRRFSLVPRTEETIEESLAEFTEQFNQLHNRNENLQLGPLGRDPPQECSTFSPTDSGEEPGQ  
 LSPGVQFQRRQNRFFSMEDVSKRLSLPMDIRLPQEFLLQKQMESPDLPKPLSRMSRRASLSDIGFKLE  
 TYVKLDKLGEGTYATVFKGRSKLMENLVALKEIRLEHEEGAPCTAIREVSLKLNKHANIVTLHDLIHTD  
 RSLTLVFEYLDSDLKQYLDHCGNLSMHNVKIFMFQLLRGLAYCHHRKILHRDLKPQNLINERGELKLA  
 DFGLARAKSVPTKYSNEVVTLWYRPPDVLGSTEYSTPIDMWGVGCIHYEMATGRPLFPGSTVKEELHL  
 IFRLLGTPTEETWPGVTAFFSEFRYSFPCYLPQPLINHAPRLDTDGIHLLSSLLLYESKSRMSAEALSH  
 SYFRSLGERVHQLDITASIFSLKEIQLKDPGYRGLAFQQPGRGKNRRQSIF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_212502

**ORF Size:** 1416 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\\_212502.3](#)

**RefSeq Size:** 3075 bp

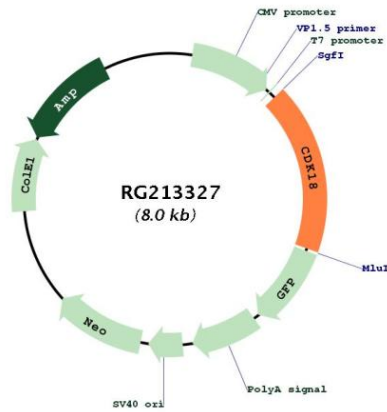
**RefSeq ORF:** 1425 bp

**Locus ID:** 5129

**UniProt ID:** [Q07002](#)

**Cytogenetics:** 1q32.1  
**Protein Families:** Druggable Genome, Protein Kinase  
**Gene Summary:** May play a role in signal transduction cascades in terminally differentiated cells.  
 [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG213327