

## Product datasheet for **RG230226**

### **PCTAIRE2 (CDK17) (NM\_001170464) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PCTAIRE2 (CDK17) (NM_001170464) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CDK17
Synonyms:	PCTAIRE2; PCTK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG230226 representing NM\_001170464  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAAAATTTAAGAGAAGGCTATCCCTCACACTCCGAGGAAGTCAGACTATTGATGAATCATTGTCTG  
 AATTGGCTGAACAAATGACTATTGAAGAAAACAGCAGCAAGGATAATGAGCCTATTGTGAAGAATGGCAG  
 GCCTCCAACGCTCACAGTATGCATTCCTTCTCCACCAGTACACAGGATCTTCAAGAAGCCCCATTG  
 CGGAGACCACACAGTGTTATTGGAGGGAGCCTTGGCTCCTTCATGGCAATGCCAGAAAATGGAAGCAGAT  
 TAGATATTGTTTCATGAAAATCTAAAAATGGGATCAGATGGTGAGAGTGACCAAGCTTCTGGGACATCATC  
 TGATGAAGTCCAGTCACCTACAGGTGTTTGTCTCAGAAAATCGTATACATAGACGGATCTCAATGGAGGAT  
 TTAATAAGCGGTTATCACTGCCTGCAGACATCAGAATACCTGATGGATATCTTGAAAAGTTGCAGATAA  
 ACAGTCCACCATTGACCAACCAATGAGTCGAAGGTCTCGTAGAGCTTCTTATCAGAAAATGGCTTTGG  
 AAAAATGGAACTACATCAAATGGAAAAGCTTGGAGAGGGTACATATGCAACAGTATATAAAGGAAGA  
 AGTAAATTGACAGAGAATTTGGTGGCATTAAAAGAGATCCGATTGGAACATGAAGAAGGTGCACCCTGCA  
 CAGCTATAAGAGAAGTTTCACTATTAAGGATTTAAAACATGCAATATAGTAACCTTACATGACATTGT  
 TCACACAGATAAATCCTTGACTTTGGTGTGTTGAGTATCTGGATAAAGACCTGAAACAGTACATGGATGAC  
 TGTGGAACATCATGAGTATGCACAACGTAAGGCTGTTTCTGTACCAAATCTACGTGGTTTGGCATATT  
 GCCATAGAAGAAAGGATTGTCATCGAGACTTGAACCACAGAACCTCCTCATTATGAGAAAAGGAGAATT  
 AAAGCTAGCAGATTTGGACTAGCCCGAGCCAAGTCAGTCCCACAAAGACCTACTCAAATGAAGTTGTC  
 ACACTATGGTACCGGCCACCTGATGTGCTTCTTGGTTCCTCGGAGTACTCAACACAGATGACATGTGGG  
 GTGTTGGTTGCATTTTTCTTGAATGGCTTCTGGAAGACCTTTATTTCCAGGATCAACCGTGAAGATGA  
 ACTGCACTTAATTTCCGACTGCTAGGAACTCCATCTCAGGAACTTGGCCAGGATTTCTTCAAATGAG  
 GAGTTCAAGAACTACAACCTTCCAAAATAAACCACAGCCTCTAATTAACCACGCACCCAGGTTAGACT  
 CTGAAGGAATTGAGTTGATAACAAAATTTCTTCAAGTATGAATCTAAGAAAAGGGTTTCAAGTGAAGAGGC  
 CATGAAACATGTGACTTTCGAAGTCTGGGACCAAGAATACATGCTTTACCAGAAAGTGTATCAATATTC  
 AGTTTGAAGAGATTGAGTTGCAAAAGGACCCGGGTTTTGCAAAATCTTCTTATCCAGAGACAGGTGTGT  
 TTGTCATAAACCATTTACAGTGTGATCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG230226 representing NM\_001170464  
 Red=Cloning site Green=Tags(s)

MKKFKRRLSLTLRGSQTIDESLSELAEQMTIEENSSKDNPEIVKNGRPPTSHSMHSFLHQYTGFSFKKPP  
 RRPHSVIGGSLGSFMAMPRNGSRLDIVHENLKMGSDDGESDQASGTSSDEVQSPTGVCLRNRIHRRISMED  
 LNKRLSLPADIRIPDGYLEKLQINSPFDQPMSSRRASLSEIGFGKMETYIKLEKLGEGTYATVYKGR  
 SKLTENLVALKEIRLEHEEGAPCTAIREVSLKDLKHANIVTLHDIVHTDKSLTLVFEYLDKDLKQYMD  
 CGNIMSMHNVKFLYQILRGLAYCHRRKVLHRDLKPQNLLINEKELKLADFLARAKSVPTKTYSEV  
 TLWYRPPDVLLGSSEYSTQIDMWGVGCIFFEMASGRPLFPGSTVEDELHLIFRLLGTPSQETWPGISSNE  
 EFKNYNFPKYKQPLINHAPRLDSEGIELITKFLQYESKKRVSAEAMKHVYFRSLGPRIHALPESVSIF  
 SLKEIQLQKDPGFRNSSYPETGVFVINHFTCRS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

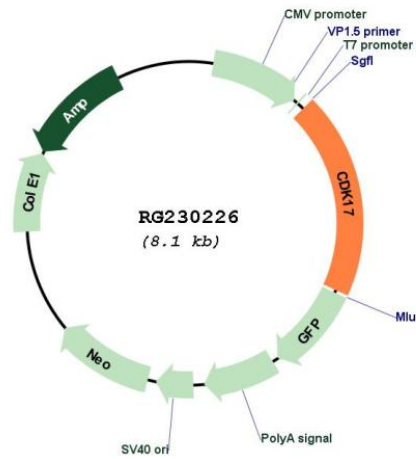
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_001170464
<b>ORF Size:</b>	1569 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001170464.3</a>
<b>RefSeq Size:</b>	2489 bp
<b>RefSeq ORF:</b>	1572 bp
<b>Locus ID:</b>	5128
<b>UniProt ID:</b>	<a href="#">Q00537</a>
<b>Cytogenetics:</b>	12q23.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	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]