

Product datasheet for **RG205318**

PCTAIRE2 (CDK17) (NM_002595) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCTAIRE2 (CDK17) (NM_002595) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCTAIRE2
Synonyms:	PCTAIRE2; PCTK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205318 representing NM_002595
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAAATTTAAGAGAAGGCTATCCCTCACACTCCGAGGAAGTCAGACTATTGATGAATCATTGTCTG
 AATTGGCTGAACAAATGACTATTGAAGAAAACAGCAGCAAGGATAATGAGCCTATTGTGAAGAATGGCAG
 GCCTCCAACGCTCACAGTATGCATTCCTTCTCCACCAGTACACAGGATCTTCAAGAAGCCCCCATTG
 CGGAGACCACACAGTGTTATTGGAGGGAGCCTTGGCTCCTTCATGGCAATGCCAGAAAATGGAAGCAGAT
 TAGATATTGTTTCATGAAAATCTAAAAATGGGATCAGATGGTGAGAGTGACCAAGCTTCTGGGACATCATC
 TGATGAAGTCCAGTCACCTACAGGTGTTTGTCTCAGAAATCGTATACATAGACGGATCTCAATGGAGGAT
 TTAATAAGCGGTTATCACTGCCTGCAGACATCAGAATACCTGATGGATATCTTGAAAAGTTGCAGATAA
 ACAGTCCACCATTGACCAACCAATGAGTCGAAGGTCTCGTAGAGCTTCTTATCAGAAAATGGCTTTGG
 AAAAATGGAACTACATCAAATGGAAAAGCTTGGAGAGGTACATATGCAACAGTATATAAAGGAAGA
 AGTAAATTGACAGAGAATTTGGTGGCATTAAAAGAGATCCGATTGGAACATGAAGAAGGTGCACCCTGCA
 CAGCTATAAGAGAAGTTTCACTATTAAGGATTTAAAACATGCAATATAGTAACCTTACATGACATTGT
 TCACACAGATAAATCCTTGACTTTGGTGTGTTGAGTATCTGGATAAAGACCTGAAACAGTACATGGATGAC
 TGTGGAACATCATGAGTATGCACAACGTAAGGCTGTTTCTGTACCAAATCTACGTGGTTTGGCATATT
 GCCATAGAAGAAAGGTTTGCATCGAGACTTGAACCACAGAACCTCCTCATTATGAGAAAAGGAGAATT
 AAAGCTAGCAGATTTGGACTAGCCCGAGCCAAGTCAGTCCCACAAAGACCTACTCAAATGAAGTTGTC
 ACACTATGGTACCGGCCACCTGATGTGCTTCTTGGTTCCTCGGAGTACTCAACACAGATTGACATGTGGG
 GTGTTGGTTGCATTTTCTTGAATGGCTTCTGGAAGACCTTTATTTCCAGGATCAACCGTGAAGATGA
 ACTGCACTTAATTTCCGACTGTAGGAACTCCATCTCAGGAACTTGGCCAGGTATTTCTCAAATGAG
 GAGTTCAAGAACTACAACCTTCCAAAATATAAACCACAGCCTCTAATTAACCACGCACCCAGGTTAGACT
 CTGAAGGAATTGAGTTGATAACAAAATTTCTTCAGTATGAATCTAAGAAAAGGGTTTCAGCTGAAGAGGC
 CATGAAACATGTACTTTCGAAGTCTGGGACCAAGAATACATGCTTTACCAGAAAGTGTATCAATATTC
 AGTTTGAAGAGATTGAGTTGAAAAGGACCCGGGTTTTCGAAATTTCTTCTATCCAGAGACAGGACATG
 GGAAGAACAGAAGACAGAGCATGCTCTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205318 representing NM_002595
 Red=Cloning site Green=Tags(s)

MKKFKRRLSLTLRGSQTIDESLSELAEQMTIEENSSKDNPEIVKNGRPPTSHSMHSLHQYTGSEFKKPP
 RRPHSVIGGSLGSFMAMPRNGSRLDIVHENLKMGSDDGESDQASGTSSDEVQSPTGVCLRNRIHRRISMED
 LNKRLSLPADIRIPDGYLEKLQINSPFDQPMRRSRRASLSEIGFGKMETYIKLEKLGEGTYATVYKGR
 SKLTENLVALKEIRLEHEEGAPCTAIREVSLLKDLKHANIVTLHDIVHTDKSLTLVFEYLDKDLKQYMD
 CGNIMSMHNVKFLYQILRGLAYCHRRKVLHRDLKPQNLLINEKELKLADFLARAKSVPTKTYSEV
 TLWYRPPDVLLGSSEYSTQIDMWGVGCIFFEMASGRPLFPGSTVEDELHLIFRLLGTPSQETWPGISSNE
 EFKNYNFPKYKQPLINHAPRLDSEGIELITKFLQYESKKRVSAEAMKHVYFRSLGPRIHALPESVSIF
 SLKEIQLQKDPGFRNSSYPETGHGKNRRQSMFL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002595

ORF Size: 1569 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_002595.5](#)

RefSeq Size: 4041 bp

RefSeq ORF: 1572 bp

Locus ID: 5128

UniProt ID: [Q00537](#)

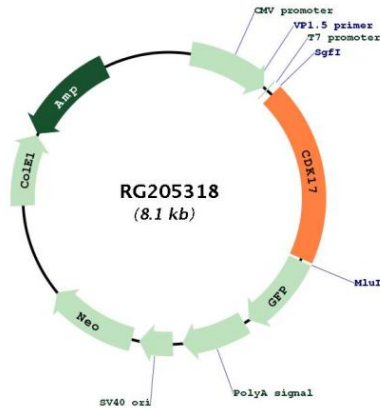
Cytogenetics: 12q23.1

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]

Product images:



Circular map for RG205318