

## Product datasheet for **RC200515**

### **PCOLCE (NM\_002593) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PCOLCE (NM_002593) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PCOLCE
Synonyms:	PCPE; PCPE-1; PCPE1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC200515 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCCTGCAGCCACAGCCTCCCTCCTGGGGCCCTCCTCACTGCCTGCGCCCTGCTGCCTTTTGCCC  
 AGGGCCAGACCCCAACTACACCAGACCGTGTTCTGTGCGGAGGGGATGTGAAGGGGAATCAGGTTA  
 CGTGGCAAGTGAGGGGTTCCCAACCTCTACCCCTAATAAGGAGTGCATCTGGACCATAACGGTCCCC  
 GAGGGCCAGACTGTGTCCTCTCATTCCGAGTCTTCGACCTGGAGCTGCACCCCGCTGCCGCTACGATG  
 CTCTGGAGGTCTTCGCTGGGTCTGGGACTTCGGGCCAGCGGCTCGGACGCTTTTGTGGGACCTTCGGCC  
 TGCGCCCTAGTCGCCCCGGCAACCAGGTGACCTGAGGATGACGACGGATGAGGGCACAGGAGGACGA  
 GGCTTCTGCTCTGGTACAGCGGGCGGCCACCTCGGGCACTGAGCACCATTTTGGGGGGGGCGGCTGG  
 AGAAGGCCAGGGAACCTGACCACGCCAACTGGCCGAGTCCGATTACCCCGGGCATCAGCTGTTT  
 CTGGCACATCATCGGCCCCCGACCAGGTCATCGCGTACCTTCGAGAAGTTTGACCTGGAGCCGGAC  
 ACCTACTGCCGCTATGACTCGGTGAGCGTGTCAACGGAGCCGTGAGCGACGACTCCCGGAGGCTGGGGA  
 AGTTCTGCGGCGACGAGTCCCGGGTCCATCTCTCCGAAGGGAATGAACCTCTCGTCCAGTTCGTCTC  
 AGATCTCAGTGTACCGCTGATGGCTTCTCAGCCTCTACAAGACCCTGCCGCGGGGCACTGCCAAAGAA  
 GGGCAAGGGCCCGGCCCAACGGGGAAGTGAAGCTAAAGTCAAGCTGCCCCCAAGTCCCAACCTCCGG  
 AGAAAACAGAGGAATCTCCTTCAGCCCCGATGACACCCACCTGCCAAAGCAGTCCCGCCGGACAGGCAC  
 CTTGCAGAGCAACTCTGTGCCAGCAGCCTTGTGGTACTGCGACAGTGAAGTCCATGGTTCGGGAGCCA  
 GGGGAGGGCCTTCCGTGACTGTGACTTATTGGTGTATAAACTGGAGGACTGGACCTGCCTTCTC  
 CACCCACTGGTGCCTCCCTGAAGTTTTAGTGCCTTGCAAGCAGTGCCTCCATGAAGAAAGGAGTTCAG  
 TTATCTGCTGATGGGCCAGGTAGAAGAGAAGAGGAGGCCCCGCTCTCCTCCAGAGAGCTTTGTGGTTCTC  
 CACCGGCCAACCAGGACCAGATCTCACCAACCTAAGCAAGAGGAAGTGCCTCTCACTGTGCGGG  
 CTGCTGCGTCCAGGAC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC200515 protein sequence  
 Red=Cloning site Green=Tags(s)

MLPAATASLLGPLLACALLPFAQGQTPNYTRPVFLCGGDVKGESGYVASEGFPNLYPPNKECIWITIVP  
 EGQTVSLSFRVFDLELHPACRYDALEVFAGSGTSGQRLGRFCGTFRPAPLVAPGNQVTLRMTTDEGTGGR  
 GFLLWYSGRATSGTEHQFCGGRLEKAQGLTTPNWPESDYPPGISCSWHIAPPDQVIALTFEKFDLEPD  
 TYCRYDSVSVFNGAVSDDSRRLGKFCGDAVPGSISSEGNELLVQFVSDLVADGFSASYKTLPRGTAKE  
 GQGPGRKRGTEPKVKLPPKSQPPEKTEESPSAPDAPCPKQCRRTGTLQSNFCASSLVVATVKSVMVREP  
 GEGLAVTVSLIGAYKTGGLDLPSPPTGASLKFYVPCQCPMKGVSYLLMGQVEENRGPVLPPESEFVVL  
 HRPNQDQILTNLSKRKCPSPVRAAASQD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6400\\_h01.zip](https://cdn.origene.com/chromatograms/mk6400_h01.zip)

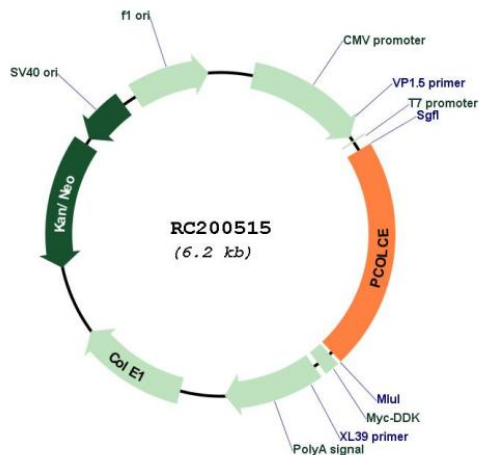
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_002593

ORF Size: 1347 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\\_002593.4](#)

**RefSeq Size:** 1651 bp

**RefSeq ORF:** 1350 bp

**Locus ID:** 5118

**UniProt ID:** [Q15113](#)

**Cytogenetics:** 7q22.1

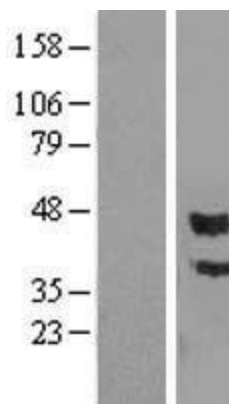
**Domains:** CUB, NTR

**Protein Families:** Secreted Protein

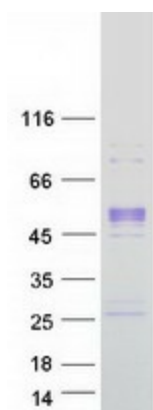
**MW:** 48 kDa

**Gene Summary:** Fibrillar collagen types I-III are synthesized as precursor molecules known as procollagens. These precursors contain amino- and carboxyl-terminal peptide extensions known as N- and C-propeptides, respectively, which are cleaved, upon secretion of procollagen from the cell, to yield the mature triple helical, highly structured fibrils. This gene encodes a glycoprotein which binds and drives the enzymatic cleavage of type I procollagen and heightens C-proteinase activity. [provided by RefSeq, Jul 2008]

### Product images:



Western blot validation of overexpression lysate (Cat# [LY419210]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200515 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PCOLCE protein (Cat# [TP300515]). The protein was produced from HEK293T cells transfected with PCOLCE cDNA clone (Cat# RC200515) using MegaTran 2.0 (Cat# [TT210002]).