

Product datasheet for **RG224022**

PCOLE2 (PCOLCE2) (NM_013363) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PCOLE2 (PCOLCE2) (NM_013363) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | PCOLE2 |
| Synonyms: | PCPE2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG224022 representing NM_013363 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGGGCGGAACGCCTGGGCGCCACTCTGCCTGCTGCTGGCTGCCGCCACCCAGCTCTCGGGCAGC
AGTCCCCAGAGACCTGTTTTACATGTGGTGGCATTCTTACTGGAGAGTCTGGATTTATTGGCAGTGA
AGGTTTTCTGGAGTGTACCCTCCAATAGCAAATGACTTGGAAATCACAGTCCCGAAGGAAAAGTA
GTCGTTCTCAATTTCCGATTCATAGACCTCGAGAGTGACAACCTGTGCCGCTATGACTTTGTGGATGTG
ACAATGGCCATGCCAATGGCCAGCGCATTGGCCGCTTCTGTGGCACTTTCCGGCCTGGAGCCCTTGTGTC
CAGTGGCAACAAGATGATGGTGCAGATGATTTCTGATGCCAACACAGCTGGCAATGGCTTCATGGCCATG
TTCTCCGCTGCTGAACCAACGAAAGAGGGGATCAGTATTGTGGAGGACTCCTTGACAGACCTTCCGGCT
CTTTTAAACCCCAACTGGCCAGACCGGGATTACCCTGCAGGAGTCACTTGTGTGGCACATTGTAGC
CCCAAAGAATCAGCTTATAGAATTAAGTTTGAGAAGTTTGATGTGGAGCGAGATAACTACTGCCGATAT
GATTATGTGGCTGTGTTAATGGCGGGGAAGTCAACGATGCTAGAAGAATTGGAAAGTATTGTGGTGATA
GTCCACCTGCGCAATTGTGCTGAGAGAAATGAACCTTCTTATTCAGTTTTATCAGACTTAAGTTTAAC
TGCAGATGGGTTTATTGGTCACTACATATTCAGGCCAAAAAACTGCCTACAACACAGAACAGCCCTGTC
ACCACCACATCCCTGTAACCACGGGTTTAAAACCCACCGTGGCCTTGTGTCAACAAAAGTGTAGACGGA
CGGGGACTCTGGAGGGCAATTATTGTTCAAGTGACTTTGTATTAGCCGGCACTGTTATCACAACCATCAC
TCGCGATGGGAGTTTGCACGCCACAGTCTCGATCATCAACATCTACAAAGAGGAAATTTGGCGATTTCAG
CAGGCGGGCAAGAACATGAGTGCCAGGCTGACTGTCGTCTGCAAGCAGTGCCTCTCCTCAGAAGAGGTC
TAAATTACATTATTATGGCCAAGTAGGTGAAGATGGGCGAGGCAAAATCATGCCAACAGCTTTATCAT
GATGTTCAAGACCAAGAATCAGAAGCTCCTGGATGCCTTAAAAATAAGCAATGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224022 representing NM_013363
 Red=Cloning site Green=Tags(s)

MRGANAWAPLCLLLAAATQLSRQQSPERPVFTCGGILTGESGFIGSEGFPGVYPPNSKCTWKITVPEGKV
 VVLNFRFIDLESDNLCRYDFVDVYNGHANGQRIGRFCGTFRPGALVSSGNKMMVQMISDANTAGNGFMAM
 FSAAEENERGDQYCGLLDRPSGSFKTPNWPDRDYPAGVTCVWHIVAPKNQLIELKFEKFDVERDNYCRY
 DYVAVNGGEVNDARRIGKYCGDSPAPPIVSEARNELLIQFLSDLSLTADGFIGHYIFRPKKLPPTTEQPV
 TTTFPVTTGLKPTVALCQQKCRRTGTLEGNYSDFVLAGTVITITRDGSLHATVSIINIYKEGNLAIQ
 QAGKNMSARLTVVCKQCPLLRRGLNYIIMGQVGEDGRGKIMPNSFIMMFKTKNQKLLDALKNKQC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013363

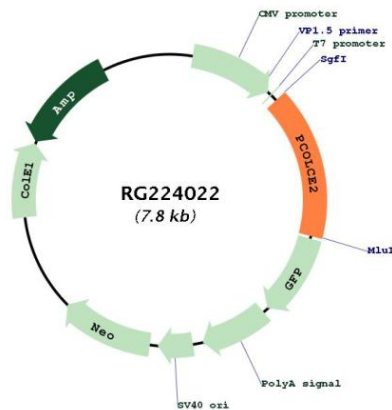
ORF Size: 1245 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

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| 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: | <ol style="list-style-type: none"> 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: | <u>NM_013363.4</u> |
| RefSeq Size: | 1988 bp |
| RefSeq ORF: | 1248 bp |
| Locus ID: | 26577 |
| UniProt ID: | <u>Q9UKZ9</u> |
| Cytogenetics: | 3q23 |
| Domains: | CUB, NTR |
| Protein Families: | Secreted Protein |
| Gene Summary: | Binds to the C-terminal propeptide of types I and II procollagens and may enhance the cleavage of that propeptide by BMP1.[UniProtKB/Swiss-Prot Function] |

Product images:


Circular map for RG224022