

Product datasheet for **MG220395**

Pcolce (NM_008788) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcolce (NM_008788) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pcolce
Synonyms:	Astt-2; Astt2; P14; PCPE-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220395 representing NM_008788
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGCCTGCTGCCCTAACCTCCTTTCTGGGGCCATTCTTTTGGCCTGGGTGCTGCCTCTTGCCCGAG
 GCCAGACCCCAACTACACGAGACCTGTGTTCTGTGCGGAGGGGACGTGACCGGGGAGTCAGGTTACGT
 GGCAAGTGAGGGTTTCCCAACCTCTACCCCCAAACAAGAGTGCATCTGGACAATTACCGTGCCCGAG
 GGCCAGACTGTGTCCCTGTCTTCCGAGTCTTCGATATGGAGCTCCACCTTCTGCCGCTACGATGCTC
 TGGAGGTCTTTGCTGGCTCTGGCACCTCAGGCCAGCGACTTGGACGCTTCTGCGGCACCTTCAGGCCTGC
 ACCTGTAGTCGCACCTGGCAACCAAGTACTTTAAGGATGACAACCTGACGAGGGCACCGGGGACGAGGC
 TTCTGCTCTGGTACAGCGGCCGGGCCACTTCGGGCACTGAGCACCAGTTTTGTGGGGGGCGGATGGAGA
 AGGCGCAGGGAACCTTGACCAGCCCAACTGGCCTGAGTCGGATTACCCACCAGGCATCAGCTGTTCTCTG
 GCACATCATTGCACCCTCAAACAGGTGATCATGCTAACCTTTGGGAAGTTTGATGTGGAGCCTGACACG
 TACTGCCGATATGACTCTGTCACTGTGTTAACCGAGCTGTGAGTGACGACTCAAAGAGGCTGGGGAAT
 TTTGCGGAGACAAGGCCCTAGCCCCATCTCTTGAAGGGAACGAGCTCCTGGTCCAGTTTGTATCAGA
 TCTCAGTGTACCCGAGATGGCTTCTCAGCCTCTACAGGACCTGCCACGGGATGCCGTAGAGAAGGAG
 TCAGCCCTGAGTCCAGGGGAGGACGTACAGCGTGGTCCCAGTCCCCTCTGACCCTAAGACAGGAACTG
 GGCCAAAGTCAAACCACCCACTAAACCTAAATCCCAACCTGCAGAGACACCAGAGGCTTCCCCTGCTAC
 CCAGGCAACCCAGTGGCCCCAGCTGCCCCAGCATCACCTGCCAAAGCAGTACAAGCGGTGAGGCACC
 TTGCAGAGCAACTTCTGTTCCAGTAGCCTAGTGGTGACAGGAACAGTGAAGACCATGGTCCGGGGCCCCG
 GGAAGGCCTCACTGTCACTGTCACTCTCTTGGTGTCTACAAAACCGGAGGACTGGACCTGCCCTCTCC
 GCCCAGTGGCACCTCTCTGAAGTTGTATGTGCCCTGCAGGCAGATGCCCCCATGAAGAAAGGAGCCAGT
 TATCTGCTGATGGTCAAGTGGAAAGAAAACAGAGGCCCATCCTTCTCCAGAGACTTCGTGGTCTCT
 ACAGGTCCAACCAGGACCAGATCCTCAATAACCTAAGCAAGAGGAAGTGTCCCTCCCAACCTAGGACAGC
 TGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG220395 representing NM_008788
 Red=Cloning site Green=Tags(s)

MLPAALTSFLGPFLAWVPLARGQTPNYTRPVFLCGGDVTGESGYVASEGFPNL YPPNKKCIWITVPE
 GQTVSLSFRVFDMEHPSCRYDALEVFAGSGTSGQRLGRFCGTFRPAPVVAPGNQVTLRMTTDEGTGGRG
 FLLWYSGRATSGTEHQFCGGRMEKAQGLTTPNWPESDYPPGISCSWHIIAPSNQVIMLTFGKFDVEPDT
 YCRYDSVSVFNGAVSDDSKRLGKFCGDKAPSPISSEGNELLVQFVSDL SVTADGFSASYRTLPRDAVEKE
 SALSPGEDVQRGPQSRSDPKTGTGPKVKPPTKPKSQPAETPEASPATQATPVAPAAPSITCPKQYKRS
 LQSNFCSSSLVVTGTVKTMVRGPGEGLTVTVSLLGVYKTGGLDLPSPSGTSLKLYVPCRQMPMPMKK
 GASYLLMGQVEENRGPILPPESFVLYRSNQDQILNLSKRKCPSPRTAA

TRTRPLE – GFP Tag – V

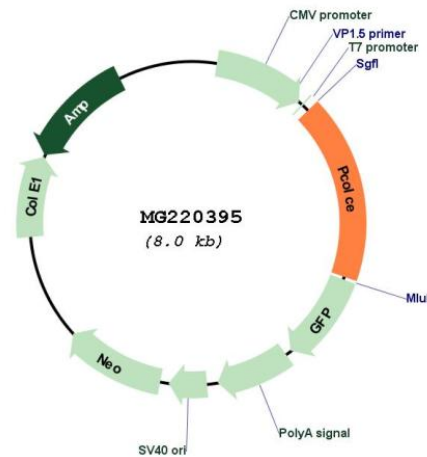
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008788

ORF Size: 1404 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_008788.2](#), [NP_032814.2](#)

RefSeq Size: 1539 bp

RefSeq ORF: 1407 bp

Locus ID: 18542

UniProt ID: [Q61398](#)

Cytogenetics: 5 76.59 cM

Gene Summary: Binds to the C-terminal propeptide of type I procollagen and enhances procollagen C-proteinase activity.[UniProtKB/Swiss-Prot Function]