

Product datasheet for **MC220405**

Col10a1 (NM_009925) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Col10a1 (NM_009925) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Col10a1
Synonyms:	Col10; Col10a-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220405 representing NM_009925
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCTCAAATACCCTTTCTGCTGCTAATGTTCTTGACCCTGGTTCATGGGATGTTTTATGCTGAAC
 GGTACCAAACGCCACAGGCATAAAGGGCCACTTGCTAGCCCCAAGACACAATACTTCATCCCATACGC
 CATAAAGAGTAAAGGGATTCCAGTAAGAGGAGAACAAGGCATTCTGGTCCACCAGGCCAACCGGACCT
 CGAGGACACCCAGGTCCCTCAGGACCGCCAGGCAAGCCAGGCTATGGAAGTCTGGACTCCAAGGAGAGC
 CAGGGTTGCCAGGACCACCAGGAATATCAGCCACGGGGAAGCCAGGCCTGCCAGGCCCGCCAGGCAAACC
 AGGGGAGAGAGGACCATATGGACACAAAGGAGATATTGGCCAGCTGGCTTACCCGGACCTCGGGGCCCT
 CCAGGGCCCCCTGGAATTCCTGGCCAGCTGGAATTTCTGTGCCAGGAAAACCTGGACAGCAGGGACTTA
 CAGGTGCCCCAGGACCTAGGGGCTTTCCTGGAGAGAAGGGTGCACAAGGAGCCCCCTGGTGTGAATGGGCG
 GAAAGGGGAAACAGGATATGGCTCTCCTGGCCGTCCAGGTGAGAGGGTCTTCCAGGCCCTCAAGTCCC
 ATAGGACCCCCTGGCCCCCTGGAGTGGGAAGAAGAGGTGAAAACGGCTTTCAGGACAGCCGGGCATCA
 AAGGTGACCGGGGTTTCCAGGAGAAATGGGACCATCAGGTCCACCAGGTCCCCAAGGTCTCCCGGAA
 GCAAGGACGAGAAGGTATTGGGAAGCCAGGAGCCATTGGATCCCCCTGGTCCAGCAGGTATCCCAGGAGAA
 AAAGGCCACCCAGGGGCTCCAGGAATAGCTGGTCTCCAGGAGCTCCTGGCTTTGGAAAACAAGGCTTGC
 CAGGTTTGAGGGGACAAAGGGGACCTGCTGGTCTTCTGGGGCTCCAGGTGCCAAAGGGGAACGAGGGCC
 AGCAGGTATCCTGGAGAACCGGGTCTGCTGGATCCCCCTGGGAATATGGGACCCCAAGGACCTAAAGGA
 ATCCCAGGGAACCATGGCATTCCAGGCCCTAAAGGTGAGATAGGTCTAGTTGGCCTGCAGGCCCCCTG
 GGGTAGAGGAGCAAGGGGTCCACCTGGTTAGATGGAAAAACAGGGTATCCTGGGGAGCCAGGTCTCAA
 TGGTCTAAGGGTAACCCAGGGTTACCAGGACAAAAAGGTGATCCTGGAGTGGGAGGAACCCCTGGTCTT
 CGAGGTCTGTTGGCCCTGTAGGAGCTAAAGGAGTGCCTGGACACAATGGTGAGGCAGGTCCAAGAGGTG
 AACCTGGAATACCAGGTACCAGGGGCCCACTGGGCCACCAGGTGTCCCAGGATTCCTGGATCTAAGGG
 TGACCCTGGAAACCCAGGTGCTCCAGGCCAGCTGGCATAGCAACTAAGGGCCTCAATGGGCCCACTGGT
 CCTCCAGGCCCTCCTGGTCCAAGAGGCCACAGTGGAGAACCTGGTCTCCAGGTCTCCGGGTCCCCCAG
 GACCCCCGGCCAAGCAGTCATGCCTGATGGCTTCATAAAGCCAGGCCAGAGGCCAGGCTTTCTGGGAT
 GCCGCTTGTCACTAACCACGGGTAACAGGTATGCCCGTGTCTGCTTTTACTGTCTTCTCTCTAAA
 GCTTACCAGCAGTAGGTGCCCCATCCCATTGATGAGATTCTGTACAATAGGCAGCAGCATTACGACC
 CAAGATCTGGTATCTTTACCTGTAAAGATCCCAGGCATATACTATTCTCCTACCAGTGCATGTGAAGG
 GACTCACGTTTGGTAGGCTGTATAAGAACGGCACGCCTACGATGTACACGTATGATGAGTACAGCAAA
 GGCTACCTGGATCAGGCTTCAGGGAGTGAATCATGGAGCTCACAGAAAATGACCAGGTATGGTCCAAT
 TGCCCAATGCAGAATCAAACGGCCTCTACTCCTCTGAGTACGTCCACTCGTCTTCTCAGGATTCCTAGT
 GGCTCCCATG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_009925
- Insert Size:** 2043 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_009925.4](#), [NP_034055.1](#)

RefSeq Size: 3139 bp

RefSeq ORF: 2043 bp

Locus ID: 12813

UniProt ID: [Q05306](#)

Cytogenetics: 10 18.85 cM

Gene Summary: Type X collagen is a product of hypertrophic chondrocytes and has been localized to presumptive mineralization zones of hyaline cartilage.[UniProtKB/Swiss-Prot Function]