

Product datasheet for MC224478

Col1a1 (NM_007742) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Col1a1 (NM_007742) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Col1a1
Synonyms:	Co; Col; Col1; Col1a-1; Cola-1; Cola1; Mov-; Mov-13; Mov13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224478 representing NM_007742 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCAGCTTTGTGGACCTCCGGCTCCTGCTCCTTTAGGGGCCACTGCCCTCCTGACGCATGGCCAAG
AAGACATCCCTGAAGTCAGCTGCATACACAATGGCCTAAGGGTCCCCAATGGTGAGACGTGGAAACCCGA
GGTATGCTTGATCTGTATCTGCCACAATGGCACGGCTGTGTGCGATGACGTGCAATGCAATGAAGAACTG
GACTGTCCCAACCCCAAGACGGGAGGGCGAGTGTGTGCTTTCTGCCGAAGAATACGTATACCCAA
ACTCAGAAGATGTAGGAGTCGAGGGACCAAGGGAGACCTGGCCCCAAGGCCAAGGGGACCCGTTGG
CCCCCTGGACGAGATGGCATCCCTGGACAGCCTGGACTTCTCGTCTCCTGGTCCCCCTGGGCCCCCC
GGACCCCTGGCCTTGGAGGAACTTTGCTTCCAGATGTCCTATGGCTATGATGAAAAATCAGCTGGAG
TTTCCGTGCCTGGCCCATGGGTCTTCTGGTCTCGTGGTCTCCCTGGCCCCCTGGTGCACCTGGTCC
ACAAGGTTTCAAGGCCCCCTGGTGAACCTGGCGAGCCTGGCGGTTCAAGTCCAATGGGTCCCCGAGGT
CCCCCTGGCCCTCCTGGCAAGATGGAGATGATGGGAAGCTGGCAAGCCCGCCGCTCCTGGTGAGCGTG
GACCTCCTGGACCTCAGGGTGTCTGGATTGCCTGGAACAGCTGGCCTCCCTGGAATGAAGGGACACCG
AGGCTTCAGTGGTTTGGATGGTGCCAAAGGAGATGCTGGTCTGCTGGTCTAAGGGAGAGCCCGGCAGT
CCTGGTGAAAACGGAGCTCCTGGCCAGATGGGTCCCCGAGGTCTGCCCGTGGAGAGGTGCCCTGGAC
CTCCTGGCACTGCTGGTCTCGCGTAACGATGGTGTGTTGGTCTGCTGGACCCCTGGTCCCACCGG
CCCCACTGGCCCTCCTGGCTTCCCTGGTGCAGTTGGTGTAAAGGTGAAGCTGGTCCCCAAGGAGCTAGA
GGCTCTGAAGGTCCCCAGGGTGTGCGTGGTGGAGCCCGACCCCTGGCCCTGCTGGTGTGCCGGCCCTG
CTGGAACCCCTGGTGTGATGGACAACCTGGCGCTAAAGGTGCCAATGGTGTCTGCTGATTGCTGGTGC
TCTGGCTTCCCTGGTGGCCGAGGCCCTCTGGACCCAGGGCCCGAGCCCTCCAGGTCCCAAGGGT
AACAGTGGTGAACCTGGTGTCTCTGGCAACAAGGAGACTGGTGGCAAGGAGAACCCGGTGTACTG
GAGTTCAAGGTCCCCAGGCCCTGCCGGAAGAAGGAAAACGAGGAGCCCGTGGTGGCCTGGACCTTC
CGGACTGCTGGACCTCCTGGCAGCGTGGTGGACCTGGTAGCCGTGGTTCCCTGGTGTGATGGTGT



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GCTGGCCCAAGGGTCTTCCGGTGAACGTGGTCTCCCGGACCTGCTGGTCCCAAAGGTTCTCCTGGT
 AAGCTGGTCGCCCCGGTGAAGCTGGTCTCCCTGGTGCCAAGGGTCTCACTGGCAGTCTGGCAGCCCTGG
 TCCTGATGGCAAACCGGCCCCCTGGTCCCGTGGTCAAGATGGTGCCTGGACCCGACGGTCTCCT
 GGAGCCGTGGCCAGGCTGGTGTGATGGGATCCCTGGACCTAAGGGTACCGCTGGAGAACCTGAAAGG
 CTGGAGAGCGAGGCCCTCCCGGACCCCTGGCGCTGTTGGTCTGCTGGCAAAGATGGAGAAGCTGGAGC
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 TTCCAGGGTCTTCTGGTCTGCGGTCCTCTGGTGAAGCAGGCAAGCCTGGTGAACAGGGTGTCTCTG
 GAGACCTTGGTGCCCTGGACCCTCTGGCGCAAGAGGCGAGAGAGGTTTCCCTGGTGAACGTGGTACA
 AGGTCCCCAGGTCTGCTGGTCCCGGAGAAACAATGGTCCCCCGCAACGATGGTGCCAAGGGTGT
 ACTGGTCCCCGGAGCTCCCGTAGCCAGGGTCCCCCGGTCTTCAAGGAATGCCTGGTGAACGTGGT
 CAGCTGGTCTTCCAGGTCTAAGGGTGACAGAGGTGATGCTGGTCCCAAAGGTGCTGATGGTTCTCCTGG
 TAAAGATGGTCCCGTGGTCTGACTGGTCCATTGGTCTCTGGCCCTGCTGGTCCCTGGTGAACAAG
 GGTGAAGTGGTCCAGTGGTCTCCCGTCCACCGGAGCCCGTGGTCTCCCGGAGACCGTGGTGAAG
 CTGGTCCCTGGTCTGCTGGCTTGGCGGCCCCCTGGTCTGATGGCAACCTGGTGCAGAAAGGTGA
 ACCTGGTGAATGGTGTAAAGGTGATGCTGGTCTCTGGCCCTGCTGGTCTGCTGGACCCCGGC
 CCATTGGTAACGTGGTGGTCTCTGGACCCAAAGGTCTCGTGGTGGTCTGGTCCCCCTGGTGGTACTG
 GCTTCCCTGGTGGTCTGGCCGTGCTGGTCCCCCTGGTCCCTCTGGAAATGCTGGACCCCTGGCCCTCC
 CGGTCCGTTGGCAAAGAAGGGGGCAAAGGTCCCCGTGGTGGAGTGGCCCTGCTGGACGTCTGGTGA
 GTTGGTCCCCAGGTCCCCCGGTCTGCTGGTGAAGGATCTCTGGTGGTGGTGGTGGTCTTCCCGGTGAGAGG
 CTCTGGTACCCCTGGACCTCAGGGATTGCTGGACAACGTGGTGGTGGTGGTGGTCTTCCCGGTGAGAGG
 AGAAAGAGGCTTCCCTGGTCTTCTGGCCCTCTGGTGAACCTGGCAAACAAGGTCTTCTGGATCAAGT
 GGTGAACGCGGTCCCCCTGGCCCATGGGGCCCTGGATTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 AGGGATCCCCTGGTGGTGAAGGCTCCCCGGAAGGGATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 GACTGGCCCCGCTGGCCCCCTGGTGGCCCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 AAGAATGGCGATCGTGGTGGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
 GCCCTGCTGGACCCCAAGGCCCCCGTGGTGAAGGGTGGAGACAGGCGAACAAGGTGACAGAGGCATAAA
 GGGTCATCGTGGTCTTCTGGTCTCCAGGGTCTCTGGTCTCTGGTCTCTGGTCTCTGGTGAACAAGGCCCC
 TCTGGAGCTTCAAGTCTGCAGGCCCGGGTCCCCCTGGTCTGCTGGTCTCTGGTGAACAAGGCGAC
 TCAACGGTCTCCCTGGCCCCATTGGTCCCCCTGGTCTCGAGGTCGACTGGTGGACGCGCCCTGCTGG
 TCCCCCGGCCCTCTGGACCCCTGGCCCTCTGGACCTCCAGTGGCGGTTATGACTTCACTTCTCTG
 CCTCAGCCACCTCAAGAGAAGTCTCAAGATGGTGGCCGCTACTACCGGGCCGATGATGCTAACGTGGTTC
 GTGACCGTGACCTTGGAGTGGACACCACCTCAAGAGCCTGAGTCAAGCAGATTGAGAATCCCGAGCCC
 CGAAGGCAGCCGAAGAACCCTGCCCCGACATGCCGCGACCTCAAGATGTGCCACTCTGACTGGAAGAGC
 GGAGAGTACTGGATCGACCCCAACCAAGGCTGCAACCTGGACGCCATCAAGGTCTACTGCAACATGGAGA
 CAGGTGACAGCTGTGTCTCCCTACTCAGCCGTCTGTGCCTCAGAAGAACTGGTACATCAGCCCAACCC
 CAAGGAAAAGAAGCAGTCTGGTTTGGAGAGAGCATGACCGATGGATTCCCGTTCGAGTACGGAAGCGAG
 GGCTCCGACCCCGCCGATGTCGCTATCCAGTGGCTTCTGCGCCTAATGTCCACCGAGGCTCCAGAG
 ACATCACCTATCACTGCAAGAAGCAGCTAGCCTACATGGACCAGCAGACTGGCAACCTCAAGAAGGCCCT
 GCTCCTCAGGGATCCAACGAGATCGAGCTCAGAGGCGAAGGCAACAGTGGTTCACCTACAGCACCCCT
 GTGGACGGCTGCACGAGTCAACCGGAACTTGGGGCAAGACAGTCAATCGAATACAAAACCAAGACCT
 CCCGCCTGCCATCATCGATGTGGCTCCCTGGACATTGGTGCCCCAGACCAGGAATTTCGACTAGACAT
 TGGCCCTGCCTGCTCGTAA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_007742
 Insert Size: 4362 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
Components:	<p>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).</p>
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:	<p>NM_007742.4, NP_031768.2</p>
RefSeq Size:	<p>5946 bp</p>
RefSeq ORF:	<p>4362 bp</p>
Locus ID:	<p>12842</p>
UniProt ID:	<p>P11087</p>
Cytogenetics:	<p>11 D</p>
Gene Summary:	<p>This gene encodes the alpha-1 subunit of the fibril-forming type I collagen, the most abundant protein of bone, skin and tendon extracellular matrices. The encoded protein, in association with alpha-2 subunit, forms heterotrimeric type I procollagen that undergoes proteolytic processing during fibril formation. Mice lacking the encoded protein die in utero caused by the rupture of a major blood vessel. Transgenic mice expressing significantly lower levels of this gene exhibit morphological and functional defects in mineralized and non-mineralized connective tissue and, progressive loss of hearing. [provided by RefSeq, Nov 2015]</p>