

Product datasheet for MC225455

Col12a1 (NM_007730) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Col12a1 (NM_007730) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Col12a1
Synonyms:	AW743884
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225455 representing NM_007730 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGACCAGGCTTCCCGAGCGCTGGCCGCCCTGGGCGTGGCCCTACTCCTGTCTTCCATTGAGGCAG
AAGTTGACCCACCTTCCGACTTGAATTTAAAAATTATAGATGAAAATACTGTTTCATATGCATGGGAGAG
ACCAGTTGATCCAATTGTGGTTACAGAATAACAGTGGACCCTACAACAGATGGGCTACTAAAGAATTT
ACCTTGCAGCTAGTACCACTGAACTCTATTATCAGATCTTATTCCTGAAACACAGTATGTGGTACTA
TAACCTCCTATAATGAAGTAGAAGAAAGTGTGCCAGTAATAGGTCAACTAACAATTCAAAACAGGTGGTCC
TACAAAGCCAGGGGAGAAGAAACCTGAAAAACAGAAATACAAAAGTGCTCTGTGAGTGCCTGGACCGAC
CTAGTGTCTTCTGTGGACGGCTCCTGGAGTGTGGGAAGAAATAATTTCAAGTACATTTTAGACTTCATTG
TTGCTCTGGTGTCTGCATTTGACATTGGGGAGGAGAAGACGAGGTTGGAGTTGTTCAAGTACAGCTCAGA
TACCAGGACTGAATTTAACTTAAATCAGTATTACCGAAGAGAAGACCTCCTTGTGTCAGTTAAAAAATA
CCATACAAAGGCGCAACACAATGACAGGGGATGCCATTGATTACTTAGTTAAAAACACTTTTACTGAAT
CTGCTGGCTCACGAGCTGGCTTTCTAAAGTGGCAATTATTATCACGGACGGCAAGTCTCAGGACGAAGT
GGAAATTCAGCGCGGGAGCTTCGGAATATTGGAGTTGAGGTTTTCTCTGCGGCAATAAAGCTGCAGAT
GCAAAAGAAGCTCAAAACAATTGCATCCACACCTTCCCTGAACCATGTGTTCAATGTGGCCAAATTTGATG
CAATTGTGGACATCCAGAATGAGATAATCTCGCAGGTGTGTTGAGGAGTTGATGAGCAGCTTGGTGAAGT
GGTCAAGTGGAGAAGAAGTCAAGTCAAGTGGAAATGTTACAGTGGTGTGATGATGAGCAGCTTGGTGAAGT
AGGCTGAGCTGGGATCCGCTCCTCCAGCGCTGTGACCGGCTATAAGATCCTCCTCACACCAATGGCAGCGG
GAAGCCGGCATCACGCTTTGAGTGTGGGGCCCCAGACGACCAGCTCAATGTTGTCGACCTTACAGCGGA
CACGGAGTACCAGATCAGCGTTTTGCCATGAAGGGCCTGACGTCCAGTGAACCCACTTCGGTCATGGAG
AAGACGCAGCCAATGAAAGTTCAAGTGGAAATGTTACAGTGGTGTGATATAAAAGCTGACATCGTGTGTTT
TGTTGATGGTTCTATAGCATCGGATTGCAAAATTTGTTAAAGTTCGAGCCTTTTGTAGAGTTCTTGC
AAAAAGTTTTGAGATTTCTCCGAACAGGTTGACAGATAAGCCTTGTACAGTACAGCAGGGACCTCACACC
GAGTTCACATTGAAGGAGTTCAACAGAGTTGAAGATATAATCAAAGCAATAAACACCTTCCCGTACAGGG



[View online »](#)

GAGGATCCACAAACACAGGCAAAGCCATGACTTATGTCAGAGAGAAAATATTTGTGCCAAACAAAGTTCC
CAGAAGCAACGTACCGAAGGTGATGATTCTCATCACAGATGGGAAGTCATCAGATGCTTTTCAGGGATCCT
GCTATAAAACTCAGGAACTCCGACGTGGAGATCTTCGAGTCGGTGTAAAGGACGCTGTGCGCTCAGAAC
TGGAAAGCCATTGCCTCTCCTCTGCTGAGACCCACGTGTTACAGTGGAGGATTTTATGATGCCTTTTCAGAG
GATATCATTGAACTCACACAGTCCATCTGTCTTAGAATTGAGCAAGAGTTGGCAGCTATAAAGAAGAAA
GCTTACGTTCCACCAAAGGATCTGAGGTTTACTCAGGTAAGTCTAATAGTTTCAAAGCTGAATGGTCTC
CTCCTGGAGACAATGTCTTTTCGTATCAGTCCACATACAAGGATGCTAATGGTGTATGATGAGGTCACAGT
GGTGGAGCCAGCCTCCAGCACTAGTGTGTTCTCAACAACCTGAGGCCAGAAACCCTGACTTGGTGAAT
GTGACAGCCGAGTATGAGGACGGCTTCACTGTTCTATAACTGGGGAGGAGACCCTGCAGAAGTAAAG
GAGTTCACGAAACCTGAAGGTGACAGATGAGACTACGGACAGTTTTAACTTACCTGGTCCCAAGCTCC
AGGGAGAGTCTTAAGGTATCGGATTAGATACAGACCAGTTTTCTGGTGGAGAAAGCAAAGAAGTGAAGTACC
CCAGCCAATCAGAGGAGGAAAACACTGGAGAATCTGACGCCGACACAAAATATGAAATATCTGTGATTG
CTGAATATTCCTCGGACCTGGATCTCCACTGACAGGAAATGCAGCCACTGAAGAAGTTAGAGGGAATCC
AAGAGACCTAAGAGTTTCTGATGCTACGACATCAACGCTGAAGTTGTCTTGGAGTAGGGCACCAGGAAAG
GTGAAGCAATATCTTGTACATACACCCAGCAGCAGGAGGTGAACTCAGGAGTCACTGTGAGAGGAG
ATACAACCACTACCATGTTGAGGAAATTGAAGGAAGGGACACAGTATGACTTATCTGTGACAGCACTGTA
TGCCTCTGGGGCTGGCGAAGCCCTTTCTGAAAAGGATCAACTCTGAAGAAGCTGGCTCACCTCAGAAC
CTAGTTACCAAAGACATCACAGACATCAATCGGAGCCTATTGGACATCTGCCCCAGGGATGGTTCGAG
GGTACAGGGTCTCATGGAATCGCTTACGACGACATTGAGGCTGGAGAGACAACCTTCTCTGGAGATGC
AATTCATACTATGATAGAGAACCTGCAGCCAGAGACCAAGTACAAAATTTTCAGTTTTTCGCAACTTACAGC
AGTGGAGAAGGAGAGCCCGTGACCGGAGATGCCACAATGAATATCTCAAGATTCAAAATCTTAAGAG
TGGATGAAGAAACAGAACACAGATGAGAGTTACCTGAAAGCAGCACCAGGGAAGTGTCAACTACCC
TGTTGTGTATCGCCCTCAAGGGGTGGGAGCAGATGGTTGCTAAGGTGCCACCCACGTCACCTTCAACA
GTGCTAAAGAGACTTCAACCCAGACACATATGACATCACAGTCTCCCAATGTACAAGACAGGGAAG
GAAAGCTCAGGCAAGGCTCAGGAACAACAGCGTCTCGATTTAAATCGCCGAGAAACCTCAAACTTCTGA
CCCAACCATGTCAAGTTTTCAGAGTACTTGGGAGCCTGCCCTGGGGAAGTGAAGGTTACAAAAGTACACA
TTCCACCCCTACAGGCGATGACAGAAGACTTGGGGAGTTGGTCTTGGACCATATGACAACACAGTTGTCT
TGGAGGAGCTTAGGGCAGGCACCACCTATAGAGTCAATGTTTTTGGGATGTTTATGAGGAGAAAGTTT
ACCACTCGTTGGGCAAGAAATGACAACCTTTCTGACACAACCTGTGACACCATTCTATCTTCTGGGATG
GATTGTCTCACCAGAGCTGAAGCAGACATTGTGTTGCTGGTGGATGGGTCATGGAGCATCGGCCGTGCAA
ATTTTAGAACTGTGCGAAGCTTCAATTTCTCGTATTGTAGAAGTCTTTGAAATGGCCCCAAAAGAGTACA
AATTGCTCTCGCTCAGTACAGTGGAGACCCAGAACAGAGTGGCAGTTAAATGCTCATAGAGACAAGAAG
AGTTTTATTACAGGCTGTGGCGAAGCTTACCATACAAGGAGGAAATACCCTCACAGGCATGGCTTTGAATT
TCATTCGCCAACAGAGCTTCAAGACTCAAGCTGGCATGAGGCCTCGTGTCTCGAAAATTTGGAGTTCTCAT
TACCGATGGAAAATCACAAAGATGATGTGGAGGCTCCATCCAAGAACTCAAGGATGAAGGCGTGGAGCTG
TTTGCTATTGGTATTAAGAATGCTGATGAAGTTGAGTTAAAGATGATTGCCACTGATCCAGATGACACTC
ACGCATACAATGTGGCAGATTTTGTGATCATTGTCCAAGATTGTGGATGACCTCACCATCACTTGTGTAA
CAGTGTCAAGGGCCCTGGTGACTTGGAAAGCACCAGTAACTTGTAAATTTTCAGAGAGAACCTACCCGTTCT
TTTAGAGTGAAGTGGACACCCCTTCTGACAGTGTGGACAGATACAAGGTGGAATACTACCCTGTCTGTG
GAGGGAACGCCAGGAGTTTTATGTGAGTCGACTAGACACTAGCACAGTGTGAAAGGACCTGAAGCCTGA
GACTGACTATGTGGTGAACGTGTACTCTGTGGTTGAAGATGAGTACAGTGAAGCTTGAAGGGCACAGAG
AAAACCTGCCAGTCCCTGTAGTTAGCCTGAATATTTATGATGTTGGCCCCACCACTATGCATGTGCAAT
GGCAGCCTGTGGGAGGAGCTACTGGCTACACCGTATCATACCAACCTACTCGATCTCCAGAAGGAACAAA
GCCCAAAGAGATGCGCGTGGGCAACAGTGAATGATGTGACGCTGACTGGCCTCCTTCTAACACAGAG
TATGAGGTACCCGTCAGGCCGCTGTATGACCTCACTAGTGAACCTGCCAAAGCTCGGGAAGTACAT
TGCCCTTACCAGACCTCAGGATGTGAACTCAGAGATGTGACCCACAGCACCATGAATGTCGTCTGGGA
ACCTGTGCTTGGAAAAGTTCGCAAGTACATTGTTAGATACAAAACCTCAGATGAGGAGTTCAAAGAGGTG
GAGGTGGACAGATCAAGGCCAGCACTATCCTCAAAGACCTCTCCTCTCAAACCCAGTACACAGTGAAGC
TTTCTGCTGTGTACGATGAGGGCACATCTCCCCAGCAACTGCATATGACACAACCCGGCGTGTCCAGC
CCCAACCAACCTCCAGTTTACTGAAGTACACACAGAGAGTTTTCAGGGGGACCTGGGATCATGGAGCTTCA
GATGTGCTCTCTACAGGATAACTTGGGCACCTGTTGGGAACCCAGATAAGATGGAGACCATTTTAAATG
GAGATGAAAATACTTTGGTGTGTTGAAAATCTGAACCCCAATACTCCGTATGAAGTCTCCATCACCGCCAT

CTATCCTGATGAGTCTGAAAGCGAGGACCTGAGTGGCACAGAGCGCACACTGCGTCTGATACCCCTAACA
ACACAAGCTCCAAAAAGTGGTCCACGGAACCTTCAGGTGTACAATGCCACATCTAACAGCTTGACTGTTA
AGTGGGATCCTGCTAGTGGTCGTGTGCAGAAGTACAGAATCACCTATCAGCCTTCAACAGGAGAAGGCAA
TGAACAAACGATCACAGTAGGAGGACGGCAGAACAGCGTGCTCCTGCAGAACTGAAGCCTGACTCCA
TACACCATCACGGTGTATCCCAGTATCCCGATGGTGAAGGTGGCCGGATGACCGGAAGGGGAAAGACCA
AACCTCTGAATACCGTGAGGAATTTGAGAGTGTATGACCCGTCTACCAGCTCTTTGAGTGTCCGCTGGGA
CCATGCAGAAGGCAATCCTCGTCAGTACAAACTTTTTATGCCCAACATCAGGTGGCCAGAAGAAGTGT
GTCCCAATCCCCGGGAATACCAACTATGCCATTCTTAGGAACCTGCAGCCAGATACCTACACCATCA
CAGTGGTTCGGTCTATACAGAAGGTGATGGCGGGCGCACATCAGATACTGGAAGGACATTGGTGAGAGG
ACTGGCAAGAAACATCCAAGTGTATAACCTACGCCAACAGCCTTGATGTTTCGCTGGGACCCCGCCCA
GGGCCAGTGCAGCAGTACCGCATTGTGTACTCCCTGTTGCTGGTACAAGACCCTCAGAATCTATTGTGG
TGCCAGGGAATACCCGAACGGTGCATCTGGAGAGGTTGATTCTGACACACCCTACTCTGTGAATATCGT
GGCTCTCTACTCAGATGGAGAGGGGAATCCCAGCCCCAGCCAGGGCCGAACACTTCCAAGAAGTGGACCA
AGGAACATACGGGTCTTTGGGGAGACGACCAACAGCCTCTCTGTAGCCTGGGACCATGCTGATGGCCAG
TTCAGCAATACAGGATCATCTACTCTCTACTGTCCGCGATCCAATTGATGAATATACCACAGTTCAGG
CAGAAGAAACAATGTAATACTGCAGCCCTTGAACCTGACTCCATATAAAATTAAGTGTATTGCTATT
TATGAGGATGGAGATGGTGGTACCTAACTGGAACGGGAGGACTGTGGGTCTGCTTCTCTCAGAACCA
TACACATCTTCGATGAATGGTACACAAGGTTCCGAGTGTCTGGGACCCTTACCCTCACCAGTCTTTGG
ATATAAAATTTGTGTACAAGCCAGTGGGTTCCAATGAGCCCATGGAAGCCTTTGTTGGAGAAGTGACATCA
TACACTTTACACAACCTCAATCCCAGCACTACCTATGACGTCAAGTGTATGACACAGTATGACTCTGGAC
TCAGCGTTCCTCAGATCAAGGCACCACATTTGACTTAAATGTGACAGATCTGAAAACCTTACCAGGT
TGGATGGGATACATTCTGTGTCAAGTGGTCACTCACCAGGAGCCACCTCTACAGGCTAAAGCTGAGT
CCTGCAGATGGAACAGGGGCAAGAAATAACCGTGCAGGATCAGAGACCAGTCAATTGCTTCACTGCTC
TCTCCCGGAGGCTGAGTACGGCGTTACTGTTTTGTGACAGACACAAATCTCGAGGGGCGGGTGTCCC
CATCAAAGAACAGACCACTGTGAAACCAACAGAGGCTCCTACAGAACCACCCACGCTTCTCTCTCCC
ACTATTCACCTGCCCGTATGATGCAAAGGGGCAAGGCAGATATTGTGTTCTTGACGGATGCCTCTT
GGAGTATTGGAGATGACAATTTTAAACAAGTTGTAATAATTTATCTTTAATACTGTGGGGCCTTTGATGA
AGTCAACCCTGCTGGGATTCAGGTTTCTTTGTGACAGTACAGTGTGAGGTCAAGTCTGAATTAAGCTG
AACACATAACAAGATAAGCTCTAGCCCTCGGAGCCCTCCAGAACATTGCTACAGAGGAGGAAACACAA
GAACAGGCAAGGCCCTCACATTTATCAAGGAGAAGGTCTTGACCTGGGAGAGCGGCATGAGAAGAATGT
CCCGAAGGTGCTGGTGTGGTACAGATGGCCGGTGCAGGATGAGGTGAAGAAGGCAGCCTTTGTCATC
CAGCAGTACGGGTTCAAGTGTATTCGTTGTTGGTGTGGCTGATGTGGACTACAACGAGCTTCCAACATTG
CCAGCAAGCCCAGCGAGAGGCATGTATTTCATCGTGGATGACTTTGAATCTTTTGAGAAGATTGAGGACAA
TCTGATCACATTTGTTGTGAAACTGCCACTTCAAGTTGCCCTCTCATCTATCTGGATGGCTACACATCA
CCAGGCTTTAAGATGCTTGAAGCTTACAACCTGACAGAAAAGAAATTTGCTTCTGTCCAAGGAGTCTCTT
TGGAATCCGGATCTTTCCTAGCTATTCAGCCTACAGACTTCAAGAAGTGCCTTTATCAATCAGCCAC
AGCAGAAGTGCATCCAAATGGACTCCCTCCTTCGTACACGATTATATTATTTAGACTTCTCCAGAA
ACTCCTAGTGACCCCTTTGCAATTTGGCAAATTACAGACAGAGACTACAGACCACAAGTTGGAGTGATT
CAGATCCTTCCAGCAAGACACTATCTTTCTTTAATAAGGATACAAGAGGGGAGGTACAAACTGTTACATT
TGACACAGATGAAGTGAAGACATTATTTTATGGAAGCTTTCATAAGGTCCATATTGTAGTACCTCAAAG
AGTGTTAAGATTTATATTGACTGTATGAAATTATAGAAAAGACATCAAAGAAGCTGGAATATAACAA
CTGATGGCTACGAAATCTTGAAAACCTTCTTAAAGGAGAGAGGAAGTACGCCACATTCCAAATCCAGAG
CTTTGACATTGTCTGCAGCCAGTGTGGACCAGTACAGACAGATGCTGTGATATTCCTCTAGGAGAGAT
GAAGCAAAATGCCCTGCCCTTCCGAATGCTTGCACGTGTACCCAGGACAGCGTTGGACCTCAGGCCCTC
CGGGCCCTGCAGGAGGACCTGGCGCAAAAGGTCCAGAGGTGAAAGAGGCATCAATGGGGCAGTTGGGCC
CCCAGGTCCTCGTGGAGATACTGGCCCTCAGGCCCTCAAGTCTCAGGCCCCAGGGACCCAATGGA
CTCTCCATTCGGGGCAACAGGGTCCGACAGGAATGAAAGGTGATGCAGGAGAGCCAGGCCCTCCGGGAC
GGACAGGAACCCAGGATTACCTGGCCACCAGGACCAATGGGACCACCAGGAGACAGAGGTTTCACTGG
AAAAGATGGTGAATGGGGCCAGAGGTCCCCGGGCCAGGCTCTCCAGGAGTCAAGGGCCAAGTGGG
AAACCAGGAAAACCTGGAGACCATGGCAGACCTGGTCAATCTGGCTTAAAAGGAGAAAAGGTGATAGGG
GAGACATCGCTTCCAGAACATGATGCGAGCGGTTGCAAGACAAGTCTCGCAACAACATGATCAGTGGCCA
GATGAGCAGATTCATCAGATGCTGAATCAGATTCAAATGATTACCACTCAAGTCAAACACAGCCTGGC

```
CCACCAGGGCCTCCAGGGCCCCCTGGCAGTGCTGGAGCCAGAGGAGAACCAGGGCCTGGGGTCCGACCAG
GATTCCCTGGCACACCTGGGATGCAAGGACCCCTGGTGAACGAGGTTTGCCTGGAGAGAAAGGTGAAAG
GGGTACTGGGTCTCAAGGACCCCGAGGACCGCCTGGGCCCCAGGTCCACAAGGCGAATCCCGAACGGGT
CCACCAGGGTCTACAGGTTCAAGAGGCCCTCCTGGTCCCCTGGTCGTCCAGGAAACTCAGGTATCCGAG
GCCCTCCAGGTCCTCGGATATTGTGATTCATCCAGTGTGCCAGCATCCCGTACAATGGGCAAGGCTA
TCCAGGTTCCGGCTAA
```

```
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_007730
Insert Size:	9186 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:	<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_007730.2</u> , <u>NP_031756.2</u>
RefSeq Size:	11659 bp
RefSeq ORF:	9186 bp
Locus ID:	12816
Cytogenetics:	9 43.82 cM
Gene Summary:	Type XII collagen interacts with type I collagen-containing fibrils, the COL1 domain could be associated with the surface of the fibrils, and the COL2 and NC3 domains may be localized in the perifibrillar matrix.[UniProtKB/Swiss-Prot Function]