

Product datasheet for MC224786

Col11a2 (NM_009926) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Col11a2 (NM_009926) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Col11a2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224786 representing NM_009926 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCAGGAGATCTGCC
GCCCGGATCGCC

ATGGAGCGGTGCAGCCGCTGCCACCGCCTCCTTCTGTTCCTACCTCTGGTGTGGTCTGAGCGCTGCC
CGGGATGGCAGGTGCTCCCTCTGTGGATGTGCTTCGTGCCCTGAGGTTCCCTCCCTCCCGATGGTGT
TCGGAGATCAAAAGGGTCTGTCCGGGTGATGTGGCTTACCGTGTGGCAGCGCCTCCAGCTCAGCGCA
CCCACGCGCCAGCTCTTCCAGGAGGCTTCCCAAAGACTTCTCTCTGCTGACGGTTGTCCGGACCCGCC
CTGGCCTCCAGGCTCCCTCTTACTCTATACAGCGCCAGGGAGTCCAGCAGCTGGGCTTGGAGCTCGG
CCGCCCTGTCCGCTTTCTATGAGGACCAGAGGGGACGGCCACAAGCCTCCGCTCAGCCATCTCCGA
GGCCTCAGCCTAGCAGATGGCAATGGCACCACGTGGCTGTGGCTGTGAAGGGTCACTGTCACTCTCA
TTGTGGACTGTAAGAAGCGAGTTACCCGGCCCTTCCAGAAAGTGTGCATCCGGTGTGGACACCCACGG
GGTGGTGTCTTTGGTGGCCACATCCTCGACGATGAAGTCTTTGAAGGCGATGTTCAAGGAGCTCCTCGT
GTCCCAGGCGTCCAAGCTGCCTATCAGTCTTGTGGCAGAAGGATCTGGAATGTGAGAGAGAACAGAGGG
ACGGCCCTCAGACTCAGAAGCCTCACAGAGCCAGAGATCTCAAAGAAGGAACAGCAAGACTTCATAA
GCCACAGAGCCAGGAGCCCAAGAAGCAGTACCCACCCAGGTGAAGAGGAAGGAGTCTGGAGTCCAGT
CCCTTGCCATTCTTGAAGAGGTTGCCACGGACCCCGGGGGCTAAAGGGAGAGAAGGGAGAGCCTGCAG
TGCTGGAGCCTGGTATGTTGTAGAGGGACCCAGGCCAGAGGCCAGCGGGATTAGCTGGACCCCC
TGGCATCCAGGGGAACCCAGGCCCGGTTGGAGACCCCGGTGAGAGGGGCCCCCTGGCCGAGCAGGGCTC
CCCGATCAGATGGACCCCTGGTCTCCCGGCACATCTGTATGCTTCCATTCCGGTTTGGCAGTAGTG
GGGGTGAAGGGCCCGTGGTGGCAGCCAGGAGGCCAGGCCAGGCGATTCTGCAGCAGGCACGGCT
GGCACTCCGTGGGCCCTGGCCCATGGGTTACACGGGCCCGCTGGACCATTGGGTCAAGCTGGGAGC
CCTGGCTGAAGGGAGAATCTGGAGATCTGGGCCACAGGGCCAGAGGACCTCAGGGCCTCACAGGTC
CTCTGGCAAGGCTGGACGAAGGGCCGAGCAGGTGCTGATGGAGCCCGTGGGATGCCGGGAGAACCCTGG
CATGAAGGGTGACCGAGGTTTCGACGGACTTCCAGGGCTACCTGGCGAGAAGGGACAAGGGGTGATACA
GGTGTCAAGGGCTTCTGGCCCTCTGGTGTGAGGACGGAGAGAGGGGTGATGATGGAGAGATTGGCCAC
GGGGGCTGCCTGGAGAGTCGGGACCTAGAGGACTCCTTGGCCCTAAAGGCCCGCCTGGTATTCTGGGCC
GCCGGGAGTCCGAGGCATGGACGGTCCCCACGGCCCAAGGGAGCTTGGGACCTCAAGGAGAGCCAGGA



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CCTCCTGGACAACAGGGTACTCCTGGGGCCCAGGGCCTCCCCGGACCTCAGGGAGCCATCGGTCTCATG
 GAGAGAAGGGTGCCTCGTGGGAAACCAGGCCTCCCTGGCATGCCTGGATCAGATGGACTCCCGGGTACCC
 AGGGAAGGAAGTCCCCCTGGAACCAAAGGGAACCAGGGCCCGTCCGGACCACAGGGTCTCTAGGATAC
 CCAGGCCCTCGAGGCGTCAAGGGTGTGGATGGAATTCGGGGCCTGAAGGGCCACAAGGGTAAAAGGGCG
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 GGGCTCATGGGCGAGAAGGGCAAGCTAGGTGTTCTGGTCTGCCTGGCTATCCTGGACGCCAGGGCCCCA
 AGGGATCCTGGGTTTCCCTGGTTTTCTGGAGCCAGTGGAGAGAAGGGAGCTCGGGGCCTGTCTGGGAA
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 AAATCTGGAGCTAAGGGAACATCAGGTGGTGACGGTCCCCACGGGCCACCCGGAGAGAGGGGTCTTCTCTG
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 GGGACACCCCGGCAGAGAGGAGAAGTGGGATTCCAAGGAAAGACCGGCCACCAGGCCCGCCGGAGTG
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 AGCAGGAGAGAAAAGGCGTACCGGGCGAGAAAGGCCCTATTGGTCCCACTGGTCTGATGGGGTGCAGGGC
 CCCGTGGGGTCTTCTGGTCTGCAGGACCCCCAGGCGTGGCTGGAGAGGATGGAGACAAGGGTGAAGTGG
 GAGACCTGGACAGAAGGGAACCAAAGGAAACAAGGGTGAACATGGCCCTCCTGGACCTCCTGGTCCCAT
 CGGGCTGTGGGGCAACCTGGAGCTGCGGGAGCTGATGGTGAGCCTGGAGCTCGGGGACCCAGGGACAC
 TTTGGAGCCAAAGGTGATGAAGGAACAAGAGGGTTCAATGGACCCCGGGACCCATCGGCCTACAGGGCC
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 ACCTCGAGGCCCGCTGGACCCAATGGTCTGATGGCCCAAGGTTCCCTGGAGGTGTTGAAAACCTTG
 GGTCCCCCTGGAGAAAAGGGTGAACCGGGGAGTCAAGGTCTCCAGGCGTCCAGGGCGAGCCGGGCGTCA
 AGGGACCAGTGGAGAGCGTGGTGAAGGAGAGTCTGGGCAGGCGGGAGAGGCTGGACCACCGGGGCC
 CAAAGGCCCTACAGGCGACAATGGCCCCAAGGGGAACCTGGTCTGTTGGCTTCTCTGGGGACCTGGC
 CCCCTGGAGAAGCTGGCCACGGGGCCAGGATGGTGTAAAGGAGACCGAGGCGAGGATGGCGAGCCAG
 GACAACCTGGATCCCCTGGTCCCACCGGGGAGAATGGGCCCTGGACCCCTTGGAAAGCGGGGACCTGC
 TGGCACTCCTGGTCCAGAAGGACGGCAAGGAGAGAAGGGAGCTAAGGGGGACCTGGTGTGTGGGGGCC
 CCGGGAAGACAGGCCCTGTGGTCTGCAGGCCTAGCAGGAAAGCCCGGCCCGATGGTCTTCCGGGGC
 TCCCGGGTTCAAGTGGGTAGCAAGGCCCGCCTGGAGCCACAGGCCAGGCTGGGCCCCAGGCTCTGTGGG
 ACCCCAGGGTCTTCTGGCCTCCGGGTGATGCTGGAGCCAAGGGGGAAAAGGGTCAACCCAGGTCTCATC
 GGACTGATTGGGCCGACTGGAGAGCAAGGGCGAGAAGGGCGACCGTGGCCTCCCTGGACCTCAGGGCTCAC
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 GCCTGGACCTCTGGCCCCAAGGAGCCAAAGGAGCCACAGGCCACAGTGGACCAAGGGAGAGAAGGGT
 GTCCAGGGCCCTCAGGACACCCGGGCCCCCGGGAGAGGTGATCCAGCCACTGCCATCCAGATGCCCA
 AGAAGACCCGCCGTTCCGTGGACGGAAGCAAACCTGATACAGGATGAGGAGGCTGTGCCACTGGCGGTGC
 TCCGGCAGTCTGCGGGGCTGGAGGAGATCTTGGCTCACTGGACTCTCTGCGGGAGGAGATCGAGCAG
 ATGAGGAGGCCGCGGGGACCCAGGACAGCCCTGCTCGCACCTGCCAGGACTTGAAGCTGTGCCACCCGG
 AGCTTCTGATGGAGAGTACTGGTTGACCCTAACAGGGCTGTGCTCGGGATGCCTTCCGGGTGTTCTG
 CAACTTACAGCAGGAGGGGAGACGTGTGTACACCCAGGGATGACGTACACAGTTCTCTACGTGGAC
 TCCGAGGGCTCCCAGTGGGCGTGGTCCAGCTCACCTTCTGCGGCTGCTCAGCGTCTCTGCCACCAGG
 ATGTCTCTACCTTGTCTGGAGTATCCAGGATGGTCCCTGAAACTCCGAGGGGCCAACGAGGATGA
 GCTGAGCCCTGAGACCAGCCCTATGTCAAGGAGTTCAGAGATGGCTGTCAGACCCAGCAAGGCCGGACG
 GTGTTGGAGGTGCGCACGCTGTACTGGAGCAGCTGCCCGTGTGGATGCCTCCTTGCAGACCTGGGG
 CCCCCACAAGACGGGGAGGGGTGCTTCTGGGGCCTGTCTGCTTATGGGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:	NM_009926
Insert Size:	4953 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:	NM_009926.2 , NP_034056.1
RefSeq Size:	6346 bp
RefSeq ORF:	4953 bp
Locus ID:	12815
UniProt ID:	Q64739
Cytogenetics:	17 17.98 cM
Gene Summary:	<p>This gene encodes the alpha-2 subunit of type XI collagen, one of the low abundance fibrillar collagens found in cartilage. The encoded protein, in association with other collagen subunits, forms a heterotrimeric type XI procollagen that may undergo proteolytic processing similar to the alpha-1 subunit. Mice lacking the encoded protein exhibit a mild phenotype similar to nonocular Stickler syndrome, otospondylomegaepiphyseal dysplasia (OSMED) as well as a nonsyndromic form of deafness called DFNA13. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]</p> <p>Transcript Variant: This variant (2) contains one alternate in-frame exon and lacks two exons in the 5' coding region, compared to variant 1. It encodes isoform 2, which is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>