

Product datasheet for MC224979

Col27a1 (NM_025685) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Col27a1 (NM_025685) Mouse Untagged Clone
Tag: Tag Free
Symbol: Col27a1
Synonyms: 5730512J02Rik; AI449266
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224979 representing NM_025685
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGCACGGGATTCGCGCGGGGGCCCGAGGCACAGCGCGTCAGGACCCGGGGGGGTTTCTCTTCG
 CCTGGATCTTGGTCTCATTTACCTGTCACCTGGCCTCCACCAAGGAGCTCCTGAAGATGTGGATGTCCT
 CCAGCGGCTGGGCTCAGCTGGACGAAGCCGGGGGTGGCCGGAGTCTACACCCCTGGTGTCTTCCCT
 TTCCCATCTGGCTTCATCTTACACAGCGGGCCAAGCTGCAGGCCCCACAGCCAATGTTCTTCCACCA
 CCCTGGGGCGGGAGCTGGCATTGGTGTGAGCCTCTGTTACATCGTGTGAACCATGCCTTCTCTTTGC
 CATCCGCAGCAGGAAACACAAGCTGCAACTGGGTCTGCAGTTCCTCCCGGCAGGACGATCATCCACCTG
 GGGCTCGGCAATCAGTGGCCTTCGACTTGGATGTGCATGATGGGCGCTGGCACCACCTGGCCCTAGAGT
 TGCGTGGCCGCACAGTCACAATGGTGACAGCCTGTGGGCAGCACAGGGTACCTGTCCACTGCCTTCCCG
 TAGGGACTCCATGCTTGACCCCAAGGCTCCTTCTCTTGGGGAAGGTGAACCCCGTGTGTCCAGTTT
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 GAGAGCGGTGCCGACAGGTGGACACATATAGTCCCAGGTGGGAACCTCTTCCCTGGGACTCTGGCCC
 AGCCTTTGCTTTGCATCCTGAACCAGCCTTGTGGCTTGGGGAATCTGACCAGAATCCAGCAACCCTG
 GGGCCAGGCTGTAAGCAGGGCACTTGCAAGTACTCTGGCTCCTGCCATGCCACCAAGCCCTGAGGA
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 CAGTTACCCCATGAAAAGTCCCCATGCAACCCAGAAAACAGGTGCCCTTATTACAAAGCCTGTTCC
 ACCCACTCAGAAGCCAGCGCCCTTACCTCCTACCTAGCACCTTCAAAGCCTTAGTCCCAGTGTGAGG
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 GCTTATCTAAGAAGTTCCTAACCCTACTGTTGCAAAAATCTAAGTCCAAGACGACCAAGTGGGCCAGCAA
 GCCGGTCTTGGCCGCTCCAGTGTCCCTAAAACGCTTCCAGCAAAGTGTGTTTGTCCAGTCTCCTGTTTCC
 TATCTGGGCTCTCAGACTGGCTCCAGCCCTCCTCCTTGGGTGTTGGAAATCTAGAAGCATGCCTC



CCACACGTGACTCTGCTTAACTCCTGCTGGAAGCAAGAAATTCACAGGACGGGAAACCTCCAAGAAAAC
CAGACAGAAGAGCAGCCCCGGAAGCCGAACCTCTCAGCCCTGGGAAGTCAGCCAGGGATGCCTCACCA
AGAGACCTGACAACCAAGCCTAGCCGGCCGTCCACCCAGCCCTGGTCTTTGCCCCAGCTTACCTCCTGT
CCTCCAGCCCCAGCCCACCAGCAGCAGCTTCCCTTTCTTCCACCTGCTGGGCCCTACACCTTTCCCGAT
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GGATCTCCGGGCGCACGAGGTCCTCGGGTCTCTGGGCCGTACGGGAACCCAGGCCACCTGGCCCTC
CAGGAGCCAAAGGACAGAAAGGGGACCCAGGACTCTACCAGGACAGGCTCACGATGGAGCAAAGGGCAA
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GACCCATGGGGCCACCAGGAGTCCAGGCTTGGAGGTCAGCCTGGAAGGAAAGGGTTTCTGGGAGGCC
TGGCCTGGATGGCTCGAAGGGGGAACAGGGGATCCTGGACGCCAGGACCTGTGGGTGAACAGGGGCTT
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CCCCAGGTGCACCTGGACCAAGGGTTCGATGGCCATCCTGGAACACCCGGTGGTATTGGGAACCTGG
AGACCTGGACCTGGGGCCCTCCAGGATCTCGAGGCCCTGCCAGGCATGAGGGGAGCCAAAGGGCACCCGG
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CCTCAGGGGCCAGTTGGTCTCCAGGAGAAATGGGGCCAAAGGACCCCGGGTGCAGTGGGAGAGCCTG
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CCAGAGGGGAGCTAAGGGTGCCAAGGGCCACCAAGGATATCTGGGAGAGATGGGCATCCCGGAGAACCT
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TCCCGGGCCAAAGGCGAGAAGGGGACCCAGGGCAGGATGGCAAGACCAGGGGCCCCCTGGGCCACCA
GGAGATCGGGGTCCTGTGGGTGATCGAGGAGACCGTGGGGAGCCAGGGCAGCCCTGGATACCTGGTCAAG
AGGGAGTTCAAGGCCTCCGTGGAGAACCAGGGCCAGCAGGGACAGCCTGGGCATCCAGGACCCCGGGGCG
CCCAGGACCAAAGGATCAAAGGCGAAGAGGGCCAAAGGAAAGCCAGGCAAGGCTGGGCCATCAGGC
CGAGGGGGACCCAGGGCCTTCAAGGACTGCCAGGCCCCGAGGGCTGGTGGGGAGACAGGGCCGTAAGG
GCACTGCTGGATCTGATGGGATTCTGGCAGAGATGGTGGCCAGGATATCAGGGAGACCAGGGAAATGA
TGGGGACCTGGCCCTGTGGGCCCTGCTGGGAGAAGAGGAAATCCAGGTGTGGCTGGCTTGCCTGGAGCA
CAGGGGCTCCGGGATTCAAGGGTGAAGTGGTTACCTGGGCAACTGGGTCCCCCTGAAAAACGAGGGGA
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CGAGATGGGCTTCCAGGAGTGGCTGGCCTTTTGGACCAAGGGCCCCCTGGAGACATTGGCTTCAA
GGCATCCAAGGTCTCGGGGCCCTCTGGCTTGTGGGAAAGGAAGGTATCATTGGCCCCCGGAATGC
TGGGACCTTCTGACTCCCGGTCCAAAGGTGACAGAGGCAGCCAGGAGACTTGGACTGCAAGGCC
AAGGGTCTCCTGGTCCAAGGGGCCGGCCAGGTCCCCGGGCCCTCCTGGCATCCATCCAGTTTCAG
CAAGATGACCTTGGAGCAGCTTTCAGACATGGATGGATGCTCAAGGAGCCGTCAGATCGGAGGGGTACA
GCTATCCGGACAGCTGGCGCTAGACCAGGGAGGGGAGATCTTAAAACCTTACACTACCTCAGCAACCT
CATCCAGAGCATTAAAGACACCCTTGGGCACCAAGGAGAACCAGCCCGGGTCTGCCGGGACCTCATGGAC
TGTGAGCAGAGGATGGCGGATGGTACTACTGGGTGGACCCAACTCGGCTGCTCCTCTGACACCATTG
AAGTCTCTGCAACTTACACAGGGTGGGCAGACGTGCCTGAAGCCATCACGGCCTCAAGGCCGAGTT

TGCTGTGAGTCGGGTCCAGATGAATTTCTTGCACCTGCTGAGCTCTGAGGGGACACAGCATATCACAATC
CACTGTCTGAACATGACGGTGTGGCAGGAGGGACCGGGACGCTCCTCTGCCAGACAGGCTGTGCGTTCC
GTGCCTGGAACGGACAGGTCTTGAAGCTGGGGTTCAGTTCAGGCCAGAGGTGTCTATGGATGGCTGCAA
GGTCCATGATGGCCGCTGGCATCAGACACTGTTACCTTCCGGACCCAGGACCCCGAGCAGCTGCCCATC
GTCAGTGTGGACAATCTCCCGCTGTCTCATCAGGGAAGCAGTACCGCTGGAAGTTGGACCTGCGTGCT
TCCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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|-------------------------------|---|
| Restriction Sites: | Sgfl-Mlul |
| ACCN: | NM_025685 |
| Insert Size: | 5538 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_025685.3 , NP_079961.3 |
| RefSeq Size: | 7635 bp |
| RefSeq ORF: | 5538 bp |
| Locus ID: | 373864 |
| UniProt ID: | Q5QNQ9 |
| Cytogenetics: | 4 B3 |
| Gene Summary: | This gene encodes the alpha-1 subunit of type XXVII collagen, one of the low abundance fibril-forming collagens found in cartilage. The encoded protein forms a homotrimeric triple helical procollagen that undergoes proteolytic processing during fibril formation. Transgenic mice lacking a portion of the collagenous domain in the encoded protein exhibit skeletal abnormalities, chondrodysplasia and die at birth because of a lung defect. [provided by RefSeq, Dec 2015] |