

Product datasheet for RN214632

Col2a1 (NM_012929) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Col2a1 (NM_012929) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Col2a1
Synonyms:	CG2A1A; COLLII
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN214632 representing NM_012929 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATCCGCCTCGGGCTCCCCAGTCGCTGGTGTCTGACGCTGCTCATCGCCACGGTCTACAATGTC
AGGGCCAGGATGCCCGAAAATTAGGGCCAAAGGGGCAGAAAGGAGAACCCTGGAGATATCAAAGATATCAT
AGGACCTAAAGGACCTCCTGGCCCTCAGGGACCTGCCGGTGAACAAGGACCCAGAGGTGACCGTGGTGAC
AAGGGAGAGAGGGGTGCACCTGGACCCCGTGGCAGAGATGGAGAACCCTGGTACCCCTGGAATCCTGGTC
CCCTGGCCCTCCAGGCCCCCTGGTCCCTGGCCTTGGTGGAGAACTTTGCAGCCAGATGGCTGG
AGGATTTGACGAGAAGGCTGGTGGTGCCAGATGGGAGTCATGCAAGGCCCATGGGCCCATGGGACCT
CGTGGACCCCGAGGCCCGCCGGTGGCCCGGCCCTCAAGGATTTCAAGGCAATCCTGGTGAACCTGGCG
AGCCTGGTGTCTCTGGTCCATTGGTCCCGAGGTCTCCAGGTCTGCTGGAAAACCTGGTGAATGATGG
TGAAGCTGGAAGCCCGAAAGGCCGGAGAAAGAGGCCCTCCCTGGTCTCAGGGTCTCGTGGATCCCC
GGAACCCCGGTCTTCTGGTGTCAAGGGTACAGAGGTTACCCAGGCCCTCGATGGTCTAAGGGAGAAG
CTGGTCTCCAGGTGTGAAGGGTGAGAGCGGTTCCCTGGTGAACAAGGATCCCGAGGCCAATGGGTCC
CGGTGGCCTGCCTGGCGAGAGAGGACGGACTGGCCCTGCTGGTGTCTGGTGTCTGAGGCAACGACGGC
CAGCCAGGCCCTGCTGGACCTCCGGTCTGTTGGTCTGCAGGTGGTCTGGTTCCTTGGTGTCTCTG
GTGCCAAGGGCGAAGCTGGTCCCACTGGTGGCCGTGGTCTGAAGGTGCTCAAGGTTCTCGTGGCGAAC
CGGCAATCCCGGATCCCGGGCCCGCAGGCGCTTCTGGTAACCCAGGGACTGATGGTATCCCGGAGCC
AAAGGATCTGCTGGCGCTCCTGGAATTGCTGGTGGCCCTGGTTCCTGGGCCCGTGGCCCTCCCGGTC
CTCAAGGTGCAACTGGTCTCTGGGCCCAAAGGTGACAGGGTGAAGCCCGCATCGCTGGCTTCAAAGG
TGAACAAGGCCCAAGGGAGAGACTGGACCTGCTGGGCCCGAGGAGCCCTGGCCCTGCTGGTGAAGAA
GGAAAACGAGGTGCTCGAGGAGAGCCCGTGGCGCTGGACCTATCGGCCCCCTGGAGAGAGAGGTGCTC
CTGGCAACCGCGTTTCCAGGTCAAGATGGTCTGGCAGGTCCCAAGGGTGGCCCTGGAGAGCGAGGGCC
TAGTGGCCTGGTGGTCTAAGGGTGCCATGGTACCCGGGTGCTCTGGAGAACCCTGGTCTTCTGGA
GCCAGGGTCTTACTGGCCGCCCTGGTGTGCTGGTCTCAAGGCAAAGTTGGTCTTCTGGAGCCCTG



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GAGAAGACGGTCGCCCTGGTCTCTGGTCTCAGGGAGCTCGTGGGCAGCCTGGCGTCATGGGTTTCCC
 TGGCCCCAAAGGAGCCAAATGGCGAGCCTGGCAAAGCTGGTGAAGAAAGACTGGCTGGTGCTCCTGGTCTG
 AGAGGTCTTCTGGCAAAGATGGTGAGACAGGAGCCGACAGGACCCCGGCCAGCGGACCTGTGGTG
 AACGAGGCGAGCAGGGTCTCCTGGGCCATCAGGGTCCAGGGACTTCTGGCCCTCCTGGTCCCCGGG
 TGAAGGTGAAAGCAAGGTGACCAGGGTATTCTGGTGAAGCTGGAGCCCTGGCCTCGTTGGTCCCCGG
 GGTGAACGAGGTTTCCAGGTGAACGTGGCTCTCCCGTGTGTCAGGGCCTCCAGGGTCCCCGAGGCTCC
 CTGGCACTCCTGGTACTGATGGTCCCAAAGGTGCGGCTGGCCAGATGGTCCCCCTGGGGCTCAGGGCCC
 TCCAGGTCTACAGGGAATGCCTGGTGAAGGGGAGCAGCTGGTATTGCTGGACCCAAGGGAGACAGAGGT
 GATGTTGGCGAGAAGGCCAGAGGGAGCTCCTGAAAAGATGGTGGCCGAGGTCTTACTGGGCCATCG
 GGCCCCAGGACCAGCAGGTGCCAATGGCGAGAAGGGAGAAGTGGACCTCCTGGTCTTTCAGGAAGTAC
 TGGAGCTCGAGGCGCCCCGGGTGAGCGGAGAGACTGGGCCACCTGGACCTGCTGGATTGCTGGCCCT
 CCTGGTGTGATGGCCAGCCTGGTCCAAAGGGGATCAAGGAGAAGCTGGACAGAAAGGTGACGCTGGT
 CCCCTGGCCACAAGGCCCTCAGGAGCTCCCGGGCCACAGGGTCTACTGGAGTACTGGTCTAAGGG
 AGCCCGGGGCGCCAAGGCCACCAGGGAGCCAGGGATTCCCTGGAGTGTGGCCGAGTTGGACCCCA
 GGTCTAATGGCAACCCTGGGCCCGCGGTCCCCCTGGTCTGCTGGAAAAGATGGTCCCAAAGGTGCTC
 GAGGAGACTGTTGCCCTGGCAGAGCTGGTGCCTGGACTTCAAGGACCCGACAGGAGCTCCTGGAGA
 GAAAGGGCAACCTGGAGATGACGGTCCCTCTGGTCTGATGGTCCCCAGGTCCCCAGGGGCTGGTGGT
 CAAAGGGGCATTGTTGGTCTGCCTGGTCAAGCTGGTGAAGAGAGGATTCCCAGGCCCTCCCGGCCATCGG
 GTGAGCCCGGCAAGCAGGGTGCACCTGGTGCATCTGGAGACAGAGGTCTCCTGGTCTGTGGGGCTCC
 TGGCTTGACAGGACCTGCAGGTGAACCTGGACGAGAGGGCAGCCCTGGTGTGATGGACCCCTGGCAGA
 GATGGTGGGCTGGAGTCAAGGGTATCGTGGTGAAGTGGTGCCTTGGTGTCTCCTGGAGCTCCTGGGC
 CCCCAGGCTCTCCTGGTCTGCTGGCCAACTGGCAAACAAGGAGACAGAGGAGAGGTGGTGCACAAGG
 TCCTATGGGCCCTCAGGACCTGCTGGAGCCGTGGAATTGCTGGCCCTCAAGGCCCGAGGTGACAAA
 GGAGAAGCTGGAGAGCCTGGCGAGAGAGGACTGAAGGGGACCCGAGGTTTCACTGACTGCAAGGGTCTGC
 CTGGCCCCCGGGTCTTCTGGAGATCAGGGTACTTCTGGCCCTGCTGGTCTTCCGGCCCTAGAGGTCC
 ACCTGGCCCTGTTGGTCCCTCTGGCAAAGATGGCTCTAATGGAATCCCTGGCCCCATCGGGCCTCCAGGT
 CCCCCTGGAGCCTCAGGAGAACTGGCCCTGCTGGTCTCCTGGAATCCTGGTCCCCCTGGCCCTCCGG
 GTCCTCCTGGTCTGGCATCGACATGTCAGCCTTTGCTGGCTTAGGACAGAGAGAGAAGGGCCCCGATCC
 CCTGCAGTACATGCGGGCCGACGAGGCAGACAGTACCTTGAGACAGCATGACGTCGAGGTGGACGCCACG
 CTCAGTCGCTGAACAACAGATCGAGAGCATCCGCAGCCCTGATGGCTCCCGAAGAATCCCGCTCGCA
 CCTGCCAGGACCTGAAACTCTGCCACCCAGAGTGAAGAGCGGAGACTACTGGATTGATCCCAACCAGGG
 CTGCACCTTGGACGCCATGAAAGTCTTCTGCAACATGGAGACTGGCGAGTCTTGGCTACCCCAACCCA
 GCGACTGTGCCTCGAAGAACTGGTGGAGCAGCAAGAGCAAGGAGAAGAAGCACATCTGGTTTGGAGAGA
 CCATGAACGGCGGCTTCCACTTACGCTACGGCGACGGCAACCTGGCTCCCAACACCGCTAACGTCCAGAT
 GACTTTCTCCGTCTACTGTCCACTGAGGGCTCCAGAACATCACCTACCACTGTAAGAACAGCATTGCC
 TACCTGGACGAAGCAGCCGGCAACCTCAAGAAGCCTTGTCTATCCAGGGCTCCAATGATGTGGAGATGA
 GGGCCGAGGGCAACAGCAGGTTACGTACACTGCCCTGAAGGATGGTGCACGAAACACACCGGTAAGTG
 GGGCAAGACCATCATCGAGTACCGATCACAGAAGACCTCACGCCCTCCCATTTGTTGACATTGCACCCATG
 GACATCGGAGGGCCTGATCAGGAATTTGGTGTGGACATAGGGCCTGTCTGTTTCTTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_012929

Insert Size:

4260 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_012929.1</u> , <u>NP_037061.1</u>
RefSeq Size:	4538 bp
RefSeq ORF:	4260 bp
Locus ID:	25412
UniProt ID:	<u>P05539</u>
Cytogenetics:	7q36
Gene Summary:	structural component of the cartilage extracellular matrix [RGD, Feb 2006]