

Product datasheet for **RC214969**

COL13A1 (NM_080800) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL13A1 (NM_080800) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COL13A1
Synonyms:	CMS19; COLXIIIA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC214969 representing NM_080800
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTAGCGGAGCGCACCCACAAAGCGGCAGCCACCGGTGCCCGCGGCCCTGGGGAGTTGGGCGCGCCCG
GGACGGTGGCTCTGGTGGCGGCGCGGGCGGAGCGCGGCGCACGGCTGCCGAGTCCAGGGTCGTGCGGGCT
GCTGACGCTGGCCCTCTGCTCGCTGGCACTCAGCCTGCTCGCCACTTTTCGGACGCGCGAGCTGCAGGCC
CGGGTGTGCGCCTGGAAGCGGAGCGCGGGGAGCAGAAATGGAGACGGCTATTTTGGGACGAGTCAATC
AACTGCTGGACGAGAAATGGAAGCTCCACTCAAGGAGGCGCCGGGAGGCCCAAAGACATCTCCAGGATG
TAACTGCCACCAGGACCTCTGGTCCCCTGGAAGACCCGGACTCCCAGGGGACAAAGGTGCCATTGGG
ATGCTGGACGTGTGGGTCCCCCGGAGACGCTGGGCTGTCCATCATTGGTCCCCCGGCCCCCTGGTC
AACCAGGAAGTAGAGTTTCCCTGGATTTCGGGTCCCATTGGGCTGGACGGCAAACCGGCCACCCAGG
ACCAAAGGGCGACATGGGTCTGACGGTCCCCAGGACAGCCGGGACCCAGGGACAAAAGGAGAAAAG
GGTCAGTGTGGAGAGTACCCACACCGGCTGCTGCCTCTCCTCAATTCAGTGCAGCTGGCTCCACCCCGG
TCATAAAAGGGCGACGTTCCAGGGCGAACAGAGCCAGGCCAGCATCCAAGTCCACCAGGGCCCCCAGG
CCCCCTGGACCAAGTGGACCTCTGGGGCACCCAGGACTGCCAGGGCCTATGGGGCCACCTGGCTTACCT
GGGCTCTGGACCAAGGGAGACCCAGGGATCCAGGGTACCACGGCCGGAAGGGAGAACGGGGCATGC
CAGGGATGCCAGGCAAGCATGGAGCCAAGGGGGCGCCCGAATTGCCGTGGCTGGATGAAGGTGAGCC
AGGGATCCCAGGAACCAAGGTGAGAAGGGGCTGAAGGCTCCCCTGGGTTCTTGGCCTCTGGGGCAG
AAGGGAGAAAAGGCGATGCTGGCAACTCCATTGGAGGAGCAGAGGGAACTGGCCCTCCAGGGCTCC
CTGGGCCCCAGGGCAAAGGGAGAAGCAGGTGTGATGGCCAGGTTGGCCCCCAGGGCAGCCAGGAGA
CAAGGGGGAGCGTGGAGCAGCTGGAGAACAGGGACCAGATGGCCCCAAGGGCTCCAAGGGAGAACCAGGG
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CCTCCTGGTCCCCAAGGCCCCCCAGGAAAGGATGGACCTCCAGGAGTGAAGGGAGAAAACGGGCACCCAG
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CGGGGAGAAGGGCAATCCAGGAGCAGAGTTTCTGGGCTGCCAGGGCCAGAGGGGCTCCCGGACCTCCG
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AGCGGGACCAAAGGGCGAGAGGGGACGCAAGGAGACCCTGGGATGACAGGACCAACGGGAGCAGCTGGG
CTTCTGGTTTACATGGACCACCCGGGACAAGGGAAACCGGGGGAGAGGGGGAAGAAAGGCTCTAGAG
GGCCTAAAGGGGATAAGGGAGACCAAGGAGCGCCTGGATTAGATGCCCCCTGCCATTGGGCGAAGATGG
CTTACCAGTCCAAGGCTGCTGGAACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214969 representing NM_080800
 Red=Cloning site Green=Tags(s)

MVAERTHKAATGARGPGLGAPGTVALVAARAERGARLPSPGSCGLLTLALCSLALSLLAHFRTAELQA
 RVLRLAEERGEQQMETHILGRVNQLLDEKWLHSRRRREAPKTPSGCNCPPGPPGPTGRPLPGDKAIG
 MPGRVSGPDAGLSIIIGPRGPPQPGTRGFPGFPGPIGLDGKPGHPGPKGDMGLTGPPGQPGPQGKGEK
 GQCQEYPHRLPLLLNSVRLAPPPVIKRRTFQGEQSASIQGPPGPPGPPGPPSGPLGHPGLPGMPGPPGLP
 GPPGPKGDPGIQGYHGRKGERGMGMPGKHGAKGAPGIAVAGMKGEPGIPGTKKEGAEGSPGLPGLLQ
 KGEKGDAGNSIGGGRGEPGPPGLPGPPGPKGEAGVDGQVGGPQPGDKGERGAAGEQPDGPKGSKGEPG
 KGEMVDYNGNINEALQEIRTLALMGPPGLPGQIGPPGAPGIPGQKGEIGLPGPPGHDGEKGRGKPGDMG
 PPGPQPPGKDGPPGVKGENGHPGSPGEKGEKGETGQAGSPGEKGEAGEKGNPGAEPVPLPGPEGPPGPP
 GLQGVPGPKGEAGLDGAKGEKGFQGEKGDGRPLGLPGTPGPIGVPGPAGPKGERGSKGDPGMTGPTGAAG
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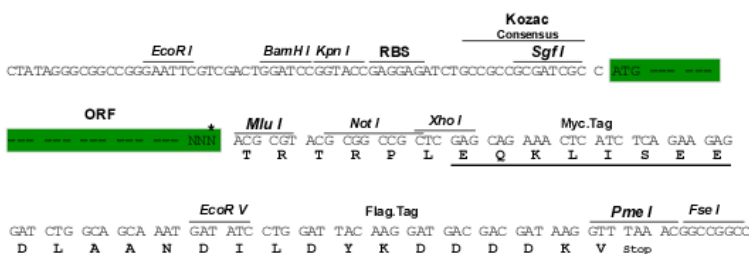
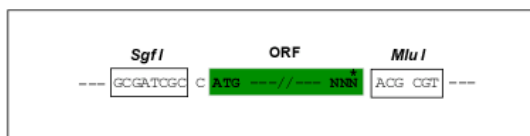
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8073_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_080800

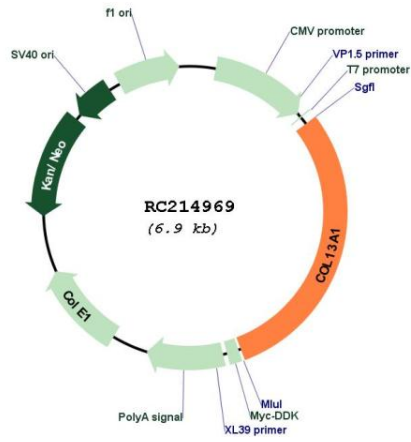
ORF Size: 2537 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_080800.4</u>
RefSeq Size:	3079 bp
RefSeq ORF:	2061 bp
Locus ID:	1305
UniProt ID:	<u>Q5TAT6</u>
Cytogenetics:	10q22.1
MW:	66.7 kDa
Gene Summary:	<p>This gene encodes the alpha chain of one of the nonfibrillar collagens. The function of this gene product is not known, however, it has been detected at low levels in all connective tissue-producing cells so it may serve a general function in connective tissues. Unlike most of the collagens, which are secreted into the extracellular matrix, collagen XIII contains a transmembrane domain and the protein has been localized to the plasma membrane. The transcripts for this gene undergo complex and extensive splicing involving at least eight exons. Like other collagens, collagen XIII is a trimer; it is not known whether this trimer is composed of one or more than one alpha chain isomer. A number of alternatively spliced transcript variants have been described, but the full length nature of some of them has not been determined. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC214969