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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)

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ORF Nucleotide Sequence:

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTAGCGGAGCGCACCCACAAAGCGGCAGCCACCGGTGCCCGCGGCCCTGGGGAGTTGGGCGCGCCCG
GGACGGTGGCTCTGGTGGCGGCGCGGGCGGAGCGCGGCGCACGGCTGCCGAGTCCAGGGTCGTGCGGGCT
GCTGACGCTGGCCCTCTGCTCGCTGGCACTCAGCCTGCTCGCCCACTTTCGGACGGCCGAGCTGCAGGCC
CGGGTGCTGCGCCTGGAAGCGGAGCGCGGGGAGCAGCAAATGGAGACGGCTATTTTGGGACGAGTCAATC
AACTGCTGGACGAGAAATGGAAGCTCCACTCAAGGAGGCGCCGGGAGGCCCCAAAGACATCTCCAGGATG
TAACTGCCCACCAGGACCTCCTGGTCCCACTGGAAGACCCGGACTCCCAGGGGACAAAGGTGCCATTGGG
ATGCCTGGACGTGTGGGGTCCCCCGGAGACGCTGGGCTGTCCATCATTGGTCCCCGCGGCCCCCCTGGTC
AACCAGGAACTAGAGGTTTCCCTGGATTTCCGGGTCCCATTGGGCTGGACGGCAAACCGGGCCACCCAGG
ACCAAAGGGCGACATGGGTCTGACGGGTCCCCCAGGACAGCCGGGACCCCAGGGACAAAAAGGAGAAAAG
GGTCAGTGTGGAGAGTACCCACACCGGCTGCTGCCTCTCCTCAATTCAGTGCGACTGGCTCCACCCCCGG
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CCCCCCTGGACCAAGTGGACCTCTGGGGCACCCAGGACTGCCAGGGCCTATGGGGCCACCTGGCTTACCT
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CAGGGATGCCAGGCAAGCATGGAGCCAAGGGGGCGCCCGGAATTGCCGTGGCTGGGATGAAGGGTGAGCC
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CTGGGCCCCCAGGGCCAAAGGGAGAAGCAGGTGTCGATGGCCAGGTTGGCCCCCCAGGGCAGCCAGGAGA
CAAGGGGGAGCGTGGAGCAGCTGGAGAACAGGGACCAGATGGCCCCAAGGGCTCCAAGGGAGAACCAGGG
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CGGGGAGAAGGGCAATCCAGGAGCAGAGGTTCCTGGGCTGCCAGGGCCAGAGGGGCCTCCCGGACCTCCG
GGGCTCCAAGGTGTTCCTGGACCAAAGGGGGAAGCAGGACTAGATGGAGCAAAAGGAGAGAAAGGCTTCC
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CTTACCAGTCCAAGGCTGCTGGAACAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

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

MVAERTHKAAATGARGPGELGAPGTVALVAARAERGARLPSPGSCGLLTLALCSLALSLLAHFRTAELQA
RVLRLEAERGEQQMETAILGRVNQLLDEKWKLHSRRRREAPKTSPGCNCPPGPPGPTGRPGLPGDKGAIG
MPGRVGSPGDAGLSIIGPRGPPGQPGTRGFPGFPGPIGLDGKPGHPGPKGDMGLTGPPGQPGPQGQKGEK
GQCGEYPHRLLPLLNSVRLAPPPVIKRRTFQGEQSQASIQGPPGPPGPPGPSGPLGHPGLPGPMGPPGLP
GPPGPKGDPGIQGYHGRKGERGMPGMPGKHGAKGAPGIAVAGMKGEPGIPGTKGEKGAEGSPGLPGLLGQ
KGEKGDAGNSIGGGRGEPGPPGLPGPPGPKGEAGVDGQVGPPGQPGDKGERGAAGEQGPDGPKGSKGEPG
KGEMVDYNGNINEALQEIRTLALMGPPGLPGQIGPPGAPGIPGQKGEIGLPGPPGHDGEKGPRGKPGDMG
PPGPQGPPGKDGPPGVKGENGHPGSPGEKGEKGETGQAGSPGEKGEAGEKGNPGAEVPGLPGPEGPPGPP
GLQGVPGPKGEAGLDGAKGEKGFQGEKGDRGPLGLPGTPGPIGVPGPAGPKGERGSKGDPGMTGPTGAAG
LPGLHGPPGDKGNRGERGKKGSRGPKGDKGDQGAPGLDAPCPLGEDGLPVQGCWNK

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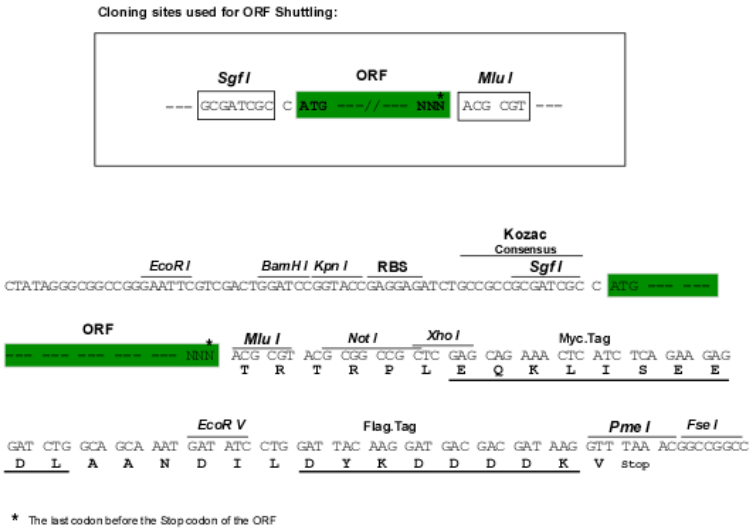
Chromatograms: https://cdn.origene.com/chromatograms/mk8073_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080800

ORF Size: 2058 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.

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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:	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_080800.4
RefSeq Size:	3079 bp
RefSeq ORF:	2061 bp
Locus ID:	1305
UniProt ID:	Q5TAT6
Cytogenetics:	10q22.1
MW:	66.7 kDa
Gene Summary:	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]

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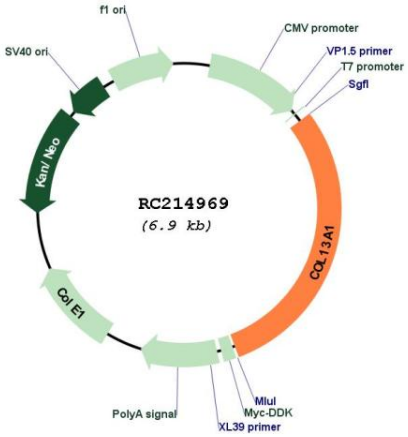
Product images:



Circular map for RC214969

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