OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC204010

COL9A3 (NM_001853) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL9A3 (NM_001853) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COL9A3
Synonyms:	DJ885L7.4.1; EDM3; IDD; MED
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC204010 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGGGCCGCGCGCGTGCGCCCCGCTCCTGCTCCTGCTCCTGCTCGGGGAGCTTCTGGCGGCCGCCG
GGGCGCAGAGAGTGGGACTCCCCGGCCCCCCCGGCCCCCCAGGGCCGCCCGGGAAGCCCGGCCAGGACGG
CATTGACGGAGAAGCTGGTCCTCCAGGTCTGCCTGGGCCCCCGGGACCAAAGGGGGCCCCAGGAAAGCCG
GGGAAACCAGGAGAGGCTGGGCTGCCGGGACTGCCGGGTGTGGATGGTCTGACTGGACGAGATGGACCCC
CTGGACCCAAGGGTGCCCCTGGGGAACGGGGAAGTCTGGGACCCCCGGGGCCGCCCGGGCTGGGGGGCAA
AGGCCTCCCTGGACCCCCCGGAGAGGCAGGAGTGAGCGGCCCCCCAGGTGGGATCGGCCTCCGCGGCCCC
CCGGGACCTTCTGGACTCCCCGGCCTCCCTGGTCCCCCAGGACCTCCCGGACCCCCTGGACACCCAGGAG
TCCTCCCTGAAGGCGCTACTGACCTTCAGTGCCCAAGTATCTGCCCGCCAGGTCCCCCAGGGCCCCCTGG
AATGCCAGGGTTCAAGGGACCCACTGGCTACAAAGGCGAGCAGGGGGAAGTCGGCAAGGACGGCGAGAAG
GGTGACCCTGGCCCCCCTGGGCCCGCCGGCCTCCCGGGCAGCGTGGGGCTGCAGGGCCCCCGGGGATTAC
GAGGACTGCCAGGGCCACTCGGGCCCCCTGGGGACCGGGGTCCCATTGGGTTCCGAGGGCCGCCTGGGAT
CCCAGGAGCGCCTGGGAAAGCGGGTGACCGAGGCGAGAGGGGCCCAGAAGGGTTCCGCGGCCCCAAGGGT
GACCTCGGCAGACCTGGTCCCAAGGGAACCCCCGGAGTGGCCGGGCCAAGCGGAGAGCCGGGCATGCCGG
GCAAGGACGGCCAGAATGGCGTGCCAGGACTCGATGGCCAGAAGGGAGAGGCTGGTCGCAACGGTGCTCC
GGGAGAGAAGGGCCCCAACGGGCTGCCGGGCCTCCCTGGACGAGCGGGGTCCAAAGGCGAGAAGGGAGAA
CGGGGCAGAGCTGGGGAGCTGGGTGAGGCCGGCCCCTCTGGAGAGCCAGGCGTCCCTGGAGATGCTGGCA
TGCCTGGGGAGCGCGGTGAGGCTGGCCACCGGGGCTCAGCGGGGGCCCTCGGCCCACAAGGCCCTCCCGG
AGCCCCTGGTGTCCGAGGCTTCCAGGGCCAGAAGGGCAGCATGGGAGACCCCGGCCTTCCAGGCCCCCAG
GGCCTCCGAGGTGACGTGGGCGACCGGGGTCCGGGAGGTGCCGCAGGCCCTAAGGGAGACCAGGGTATTG
CAGGTTCCGACGGTCTTCCTGGGGATAAAGGAGAACTGGGTCCCAGCGGCCTGGTCGGACCCAAAGGAGA
GTCTGGCAGTCGAGGGGAGCTGGGCCCCAAAGGCACCCAGGGTCCCAACGGCACCAGCGGTGTTCAGGGT
GTCCCCGGGCCCCCCGGTCCTCTGGGCCTGCAGGGCGTCCCGGGTGTTCCTGGCATCACGGGGAAGCCGG
GAGTTCCGGGGAAGGAGGCCAGCGAGCAGCGCATCAGGGAGCTGTGTGGGGGGATGATCAGCGAACAAAT
TGCACAGTTAGCCGCGCACCTAAGGAAGCCTTTGGCACCCGGGTCCATTGGTCGGCCCGGTCCAGCTGGC
CCCCCTGGGCCCCCAGGACCCCCAGGCTCCATTGGTCACCCTGGCGCTCGAGGACCCCCCGGATACCGCG
GTCCCACTGGGGAGCTGGGAGACCCCGGGCCCAGAGGAAACCAGGGTGACAGAGGAGACAAAGGCGCGGC
AGGAGCAGGGCTGGACGGGCCTGAAGGAGACCAGGGGCCCCAAGGACCCCAAGGCGTGCCCGGCACCAGC
AAGGACGGCCAGGACGGTGCTCCCGGCGAGCCTGGGCCTCCCGGAGATCCTGGGCTTCCAGGTGCCATTG
GGGCCCAGGGGACACCGGGGATCTGCGACACCTCAGCCTGCCAAGGAGCCGTGTTAGGAGGGGTCGGGGA
GAAATCAGGCTCTCGAAGCTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204010 protein sequence
Red=Cloning site Green=Tags(s)

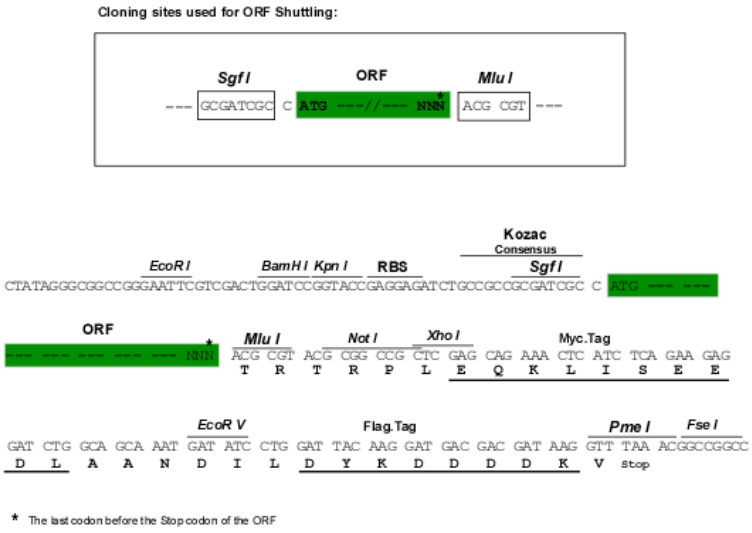
MAGPRACAPLLLLLLLGELLAAAGAQRVGLPGPPGPPGPPGKPGQDGIDGEAGPPGLPGPPGPKGAPGKP
GKPGEAGLPGLPGVDGLTGRDGPPGPKGAPGERGSLGPPGPPGLGGKGLPGPPGEAGVSGPPGGIGLRGP
PGPSGLPGLPGPPGPPGPPGHPGVLPEGATDLQCPSICPPGPPGPPGMPGFKGPTGYKGEQGEVGKDGEK
GDPGPPGPAGLPGSVGLQGPRGLRGLPGPLGPPGDRGPIGFRGPPGIPGAPGKAGDRGERGPEGFRGPKG
DLGRPGPKGTPGVAGPSGEPGMPGKDGQNGVPGLDGQKGEAGRNGAPGEKGPNGLPGLPGRAGSKGEKGE
RGRAGELGEAGPSGEPGVPGDAGMPGERGEAGHRGSAGALGPQGPPGAPGVRGFQGQKGSMGDPGLPGPQ
GLRGDVGDRGPGGAAGPKGDQGIAGSDGLPGDKGELGPSGLVGPKGESGSRGELGPKGTQGPNGTSGVQG
VPGPPGPLGLQGVPGVPGITGKPGVPGKEASEQRIRELCGGMISEQIAQLAAHLRKPLAPGSIGRPGPAG
PPGPPGPPGSIGHPGARGPPGYRGPTGELGDPGPRGNQGDRGDKGAAGAGLDGPEGDQGPQGPQGVPGTS
KDGQDGAPGEPGPPGDPGLPGAIGAQGTPGICDTSACQGAVLGGVGEKSGSRSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6230_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001853

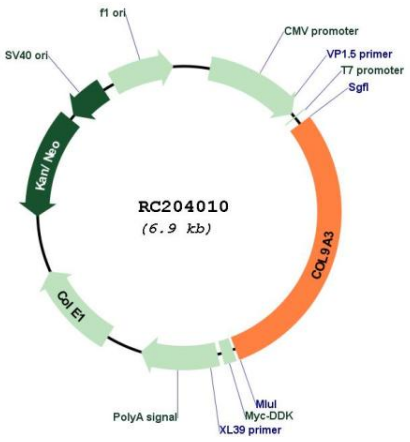
ORF Size: 2052 bp

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

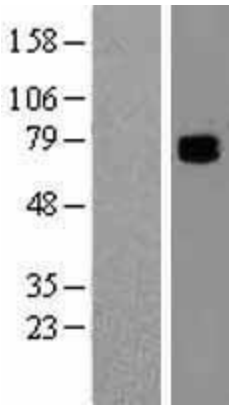
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001853.4
RefSeq Size:	2485 bp
RefSeq ORF:	2055 bp
Locus ID:	1299
UniProt ID:	Q14050
Cytogenetics:	20q13.33
MW:	63.6 kDa
Gene Summary:	This gene encodes one of the three alpha chains of type IX collagen, the major collagen component of hyaline cartilage. Type IX collagen, a heterotrimeric molecule, is usually found in tissues containing type II collagen, a fibrillar collagen. Mutations in this gene are associated with multiple epiphyseal dysplasia type 3. [provided by RefSeq, Jan 2010]

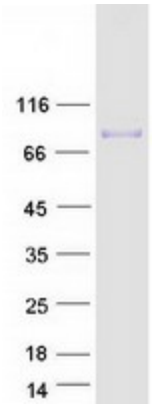
Product images:



Circular map for RC204010



Western blot validation of overexpression lysate (Cat# [LY419711]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204010 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COL9A3 protein (Cat# [TP304010]). The protein was produced from HEK293T cells transfected with COL9A3 cDNA clone (Cat# RC204010) using MegaTran 2.0 (Cat# [TT210002]).