

# Recombinant Human COL9A1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** COL9A1-4078H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

COL9A1 MS Standard C13 and N15-labeled recombinant protein (NP\_001842) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### Description

This gene encodes one of the three alpha chains of type IX collagen, which is a minor (5-20%) collagen component of hyaline cartilage. Type IX collagen is usually found in tissues containing type II collagen, a fibrillar collagen. Studies in knockout mice have shown that synthesis of the alpha 1 chain is essential for assembly of type IX collagen molecules, a heterotrimeric molecule, and that lack of type IX collagen is associated with early onset osteoarthritis. Mutations in this gene are associated with osteoarthritis in humans, with multiple epiphyseal dysplasia, 6, a form of chondrodysplasia, and with Stickler syndrome, a disease characterized by ophthalmic, orofacial, articular, and auditory defects. Two transcript variants that encode different isoforms have been identified for this gene.

### Molecular Mass

91.87 kDa

### AA Sequence

MKTCWKIPVFFFVCSFLEPWASAAVKRRRPRFPVNSNSNGGNELCPKIRIGQDDLPG  
FDLISQFQVDKAASRRAIQRVVGSA TLQVAYKLGNNVDFRIPTRNLYPSGLPEEYSFL  
TFRMTGSTLKKWNWIWQIQDSSGKEQVGIKINGQTQSVVFSYKGLDGLSLQTAAFS

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NLSSLFDSQWHKIMIGVERSSATLFVDCNRIESLPIKPRGPIDIDGFAVLGKLADNPQV  
 SVPFELQWMLIHCDPLRPRRETCHELPARITPSQTTDERGPPGEQGGPPGPPGGV  
 PGIDGIDGDRGPKGPPGPPGPAGEPGKPGAPGKPGTPGADGLTGPDGSPGSIGSK  
 GQKGEVPGVPSRGFPGRGIPGPPGPPGTAGLPGELGRVGPVGDPRRRGPPGPPG  
 PPGPRGTIGFHDGDPLCPNACPPGRSGYPGLPGMRGHKGAKGEIGEPGRQGHKG  
 EEGDQGELGEVGAQGGPPGAQGLRGITGIVGDKGEKGARGLDGEPGPQGLPGAPG  
 DQQQRGPPGEAGPKGDRGAEGARGIPGLPGPKGDTGLPGVDGRDGIPGMPGTKG  
 EPGKPGPPGDAGLQGLPGVPGIPGAKGVAGEKGSTGAPGKPGQMNSGKPGQQ  
 GPPGEVGPGRGPQGLPGRGELGPVGSPLPGKLGSLGSPGLPGLPGLPGLPMK  
 GDRGVVGEVGPKEQASGEEGEAGERGELGDIGLPGPKGSAGNPGEPGLRGPE  
 GSRGLPGVEGPRGPPGPRGVQGEQATGLPGVQGGPPGRAPTDQHIKQVCMRVIQ  
 EHFAEMAASLKRPDGATGLPGRPGPPGPPGPPGENGFPGQMGIRGLPGIKGPPG  
 ALGLRGPKGDLGEKGERGPPGRGNLPGAIGLPGDPGPASYGRNNGRDGERGPP  
 GVAGIPGVPPGPPGLPGFCEPASCTMQAGQRAFNGKPDPTTRTRPLEQKLISEED  
 LAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** COL9A1 collagen type IX alpha 1 chain [ Homo sapiens (human) ]

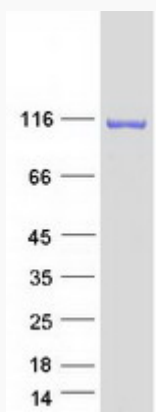
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<b>Official Symbol</b>	COL9A1
<b>Synonyms</b>	COL9A1; collagen, type IX, alpha 1; collagen alpha-1(IX) chain; alpha-1(IX) collagen chain; collagen IX, alpha-1 polypeptide; cartilage-specific short collagen; MED; EDM6; STL4; DJ149L1.1.2; FLJ40263;
<b>Gene ID</b>	1297
<b>mRNA Refseq</b>	NM_001851
<b>Protein Refseq</b>	NP_001842
<b>MIM</b>	120210
<b>UniProt ID</b>	P20849

**SDS-PAGE**



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