

# Recombinant Full Length Human COL9A1 Protein, GST-tagged

**Cat. No.** COL9A1-2183HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human COL9A1 full-length ORF ( AAH15409, 1 a.a. - 328 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	328 amino acids
<b>Description</b>	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. [provided by RefSeq, Jul 2008]
<b>Molecular Mass</b>	61.82 kDa
<b>AA Sequence</b>	MKTCWKIPVFFFVCSFLEPWASAAVKRRRPRFPVNSNSNGGNELCPKIRIGQDDLPG FDLISQFQVDKAASRRAIQRVVGSA TLQVAYKLGNNVDFRIPTRNLYPSGLPEEYSFL

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TFRMTGSTLKKWNWNIWQIQDSSGKEQVGIKINGQTQSVVFSYKGLDGLSLQTAAFS  
 NLSSLFDSQWHKIMIGVERSSATLFVDCNRIESLPIKPRGPIDIDGFAVLGKLADNPQV  
 SVPFELQWMLIHCDPLRPRRETCHHELPARITPSQTTDERGPPGEQGGPPGPPGPPGV  
 PGIDGIDGDRGPKGPPGPPGPAGEPGKPGAPGKPGTGPADTSP

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	COL9A1 collagen, type IX, alpha 1 [ Homo sapiens ]
<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

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<b>MIM</b>	120210
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<b>UniProt ID</b>	P20849
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