# Recombinant Human COL9A1 Protein, GST-tagged

**Cat. No.** COL9A1-1663H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Human COL9A1 full-length ORF ( AAH15409, 1 a.a. - 328 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Species** | Human |
| **Source** | Wheat Germ |
| **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. [provided by RefSeq, Jul 2008] |
| **Molecular Mass** | 61.82 kDa |
| **AA Sequence** | MKTCWKIPVFFFVCSFLEPWASAAVKRRPRFPVNSNSNGGNELCPKIRIGQDDLPG FDLISQFQVDKAASRRAIQRVVGSATLQVAYKLGNNVDFRIPTRNLYPSGLPEEYSFL TTFRMTGSTLKKNWNIWQIQDSSGKEQVGIKINGQTQSVVFSYKGLDGSLQTAAFS |

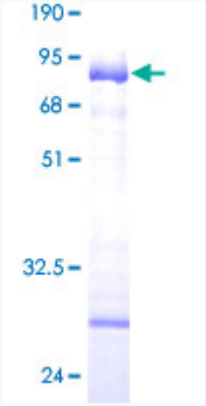
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| | NLSSLFDSQWHKIMIGVERSSATLFVDCNRIESLPIKPRGPIDIDGFAVLGKLADNPQV SVPFELQWMLIHCDPLRPRRETCHELPARITPSQTTDERGPPGEQGPPGPPGPPGV PGIDGIDGDRGPKGPPGPPGPAGEPGKPGAPGKPGTPGADTSP |
| **Applications** | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant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

## GENE INFORMATION

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| **Gene Name** | COL9A1 collagen, type IX, alpha 1 [ Homo sapiens ] |
| **Official Symbol** | COL9A1 |
| **Synonyms** | 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; |
| **Gene ID** | 1297 |
| **mRNA Refseq** | NM_001851 |
| **Protein Refseq** | NP_001842 |

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|---|---|
| **MIM** | 120210 |
| **UniProt ID** | P20849 |
| **Quality Control Testing:** | <br>12.5% SDS-PAGE Stained with Coomassie Blue. |

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