

## Product datasheet for TP318130L

### Collagen IX (COL9A1) (NM\_001851) Human Recombinant Protein

#### Product data:

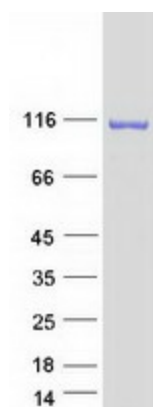
<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human collagen, type IX, alpha 1 (COL9A1), transcript variant 1, 1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC218130 representing NM_001851 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MKTCWKIPVFFFVCSFLEPWASAAVKRRRPRFPVNSNSNGGNELCPKIRIGQDDLPGFDLISQFQVDKAAS  RRAIQRVWGSATLQVAYKLGNNVDFRIPTRNLYPSGLPEEYSFLTFRMTGSTLKKNNIWIQIDSSGKE  QVGIKINGQTQSVVFSYKGLDGSLSQTAAFSNLSSLFDSQWHKIMIGVERSSATLFVDCNRIESLPIKPRG  PIDIDGFAVLGKLADNPQVSPFELQWMLIHCDPLRPRRETCHHELPARITPSQTDERGPPGEQGGPPGPP  GPPGVPIDGIDGDRGPKGPPGPPGAPGPGKPGAPGKPGTGPADGLTGPDGSPGSIGSKGQKGEVPGVPG  SRGFPGRGIPGPPGPPGTAGLPGELGRVGPVGDGRRGPPGPPGPPGPRGTIGFHDGDPLCPNACPPGRS  GYPLPGMRGHKAKGEIGEPGRQGHKGEEGDQGEVGAQGGPPGAQGLRGITGIVGDKGEKGARGLDG  EPGPQGLPGAPGDQQRGPPGEAGPKGDRGAEGARGIPGLPGPKGDTGLPGVDGRDGIPGMPGKGEVPGK  PGPPGDAGLQGLPGVPGIPGAKGVAGEKGSTGAPGKPGQMGNSGKPGQQGPPGEVGPGRGPQGLPGRGEL  GPVGSPLPGKLSLSPGLPGLPGLPGLPMKGDGRVVGEPGPKGEQASGEEGEAGERGELGDIPLPG  PKGSAGNPGEPGLRGPEGSRLPGVEGPRGPPGPRGVQGEQATGLPGVQGGPPGRAPTDQHIKQVCMRVI  QEHFAEMAASLKRPSGATGLPGRGPPGPPGPPGENGFPGQMGIKGLPGIKGPPGALGLRGPKGDLEK  GERGPPGRGNLPGAIGLPGDPGASGRNGRDGERGPPGVAGIPGVPGPPGPPGLPGFCEPASCTMQA  GQRAFNGKGPDP</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	89.1 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001842</a>
<b>Locus ID:</b>	1297
<b>UniProt ID:</b>	<a href="#">P20849</a>
<b>RefSeq Size:</b>	3704
<b>Cytogenetics:</b>	6q13
<b>RefSeq ORF:</b>	2763
<b>Synonyms:</b>	DJ149L1.1.2; EDM6; MED; STL4
<b>Summary:</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>Protein Families:</b>	Druggable Genome

### Product images:



Coomassie blue staining of purified COL9A1 protein (Cat# [TP318130]). The protein was produced from HEK293T cells transfected with COL9A1 cDNA clone (Cat# [RC218130]) using MegaTran 2.0 (Cat# [TT210002]).