

## Product datasheet for TP309473L

### Collagen IX (COL9A1) (NM\_078485) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human collagen, type IX, alpha 1 (COL9A1), transcript variant 2, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209473 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MAWTARDRGALGLLLLGLCLCAAQRGPPGEQPPGPPGPPGVPIDGIDGDRGPKGPPGPPGAPGEPGKPGAPGKPGTPGADGLTGPDGSPGSIGSKGQKGEVPGVPSRGFPGRGIPGPPGPPGTAGLPGELGRVGPVDPGRRGPPGPPGPPGPRGTIGFHDGDPLCPNACPPGRSGYPGLPGMRGHKGAKEIGEPRQGHKGEEDQ GELGEVGAQPPGAQQLRGITGIVGDKGEKGARGLDGEPGPQGLPGAPGDQQRGPPGEAGPKGDRGAEG ARGIPGLPGPKGDTGLPGVDGRDGIPGMPGTKGEPGKPGPPDAGLQGLPGVPGIPGAKGVAGEKSTGA PGKPGQMGNSGKPGQQGPPGEVGPGRPQGLPGRGELGPVGSPLPGKLGSLGSPGLPGLPGPPGLPGMK GDRGVVGEVGPKEGQASGEEGEAGERGELGDIPLPGPKGSAGNPGEPGLRGPESRGLPGVEGPRGPPG PRGVQGEQATGLPGVQGPGRAPTDQHIKQVCMRVIQEHFAEMAASLKRPDGATGLPGRPGPPGPPGPPG PGENGFPGQMIRGLPGIKGPPGALGLRGPKGDLGEKGERGPPGRGNPLPGAIGLPGDPGPASYGRNGR DGERGPPGVAGIPGVPGPPGPPGLPGFCEPASCTMQAGQRAFNGKPPD

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	62 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_511040](#)

**Locus ID:** 1297

**UniProt ID:** [P20849](#)

**RefSeq Size:** 3073

**Cytogenetics:** 6q13

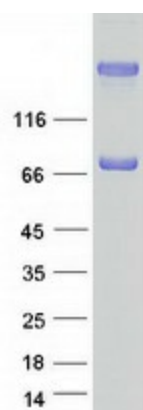
**RefSeq ORF:** 2034

**Synonyms:** DJ149L1.1.2; EDM6; MED; STL4

**Summary:** 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]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified COL9A1 protein (Cat# [TP309473]). The protein was produced from HEK293T cells transfected with COL9A1 cDNA clone (Cat# [RC209473]) using MegaTran 2.0 (Cat# [TT210002]).