

## Product datasheet for **TP311658**

### Collagen X (COL10A1) (NM\_000493) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human collagen, type X, alpha 1 (COL10A1), 20 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC211658 representing NM\_000493  
**Red**=Cloning site **Green**=Tags(s)

MLPQIPFLLLVSLLVHGVFYAERYQMPTGIKGLPNTKTQFFIPYTIKSKGIAVRGEQGTGPPGPAGP  
RGHPGPGSGPPGKPGYGSPLQGEPLGPPGPSAVGKPGVPLPGKPGERGPYGPKGDVGPAGLPGRGP  
PGPPGIPGAGISVPGKPGQQGPTGAPGRGFPGEKAGVPGMNGQKMGEMGYGAPRGERGLPGPQGP  
TGPSGPPGVGKRGENVPGQPGIKGDRGFPGEMGPIGPPGQPPGERGPEGIGKPGAAGAPGQPGIPGT  
KGLPGAPGIAGPPGPPGFGKPLGLKGERGPAAGLPGGPGAKGEQGPAGLPKPLTGPNGMGPQGPKG  
IPGSHGLPGPKGETGPAGPAGYPGAKGERGSPGSDGKPGYKPLDGPKNPGLPGKGDVGGPPGL  
PGVPGPAGAKGMPGHNGEAGPRGAPGIPGTRGPIGPPGIPGFPKSKGDPGSPGPPGAGIATKGLNGPTG  
PPGPPGRGHSGEPLGPPGPPGPPGQAVMPEGFIKAGQRPSLSGTPLVSAQGVGTMPVSAFTVILSK  
AYPAIGTPIPFDKILYNRQQHYDPRTGIFTCQIPGIYFYSYHVHVKGTHVWVGLYKNGTTPVMYTYDEYTK  
GYLDQASGSAIIDLTENDQVWLQLPNAESNGLYSSEYVHSSFSGLVAPM

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK  
**Predicted MW:** 64.1 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\\_000484](#)

**Locus ID:** 1300

**UniProt ID:** [Q03692](#)

**RefSeq Size:** 3285

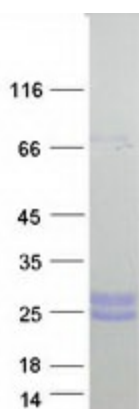
**Cytogenetics:** 6q22.1

**RefSeq ORF:** 2040

**Summary:** This gene encodes the alpha chain of type X collagen, a short chain collagen expressed by hypertrophic chondrocytes during endochondral ossification. Unlike type VIII collagen, the other short chain collagen, type X collagen is a homotrimer. Mutations in this gene are associated with Schmid type metaphyseal chondrodysplasia (SMCD) and Japanese type spondylometaphyseal dysplasia (SMD). [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified COL10A1 protein (Cat# TP311658). The protein was produced from HEK293T cells transfected with COL10A1 cDNA clone (Cat# [RC211658]) using MegaTran 2.0 (Cat# [TT210002]).