

Recombinant Human COL1A2 protein, His-tagged

Cat. No. COL1A2-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human COL1A2 protein, fused to His-tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1366 aa
Description	This gene encodes the pro-alpha2 chain of type I collagen whose triple helix comprises two alpha1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIB, recessive Ehlers-Danlos syndrome Classical type, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe than mutations in the gene for the alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix integrity. Three transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene.
Form	Liquid
AA Sequence	QYDGKGVGLGPGPMGLMGRPPGAAGAPGPQGFQGPAGEPGEPGQTGPAGAR GPAGPPGKAGEDGHPGKPGRPGERGVPVGPQGARGFPGTPGLPGFKGIRGHNGLD GLKGQPGAPGVKGEPGAPGENGTPGQTGARGLPGERGRVGAPGPAGARGSDGS VGPVGPAGPIGSAGPPGFPAGPCKGEIGAVGNAGPAGPAGPRGEVGLPGLSGPV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GPPGNPGANGLTGAKGAAGLPGVAGAPGLPGPRGIPGPVGAAGATGARGLVGEP
 GPAGSKGESGNKGEPGSAGPQGGPPGSGEEGKRGPNGEAGSAGPPGPPGLRGS
 PGSRGLPGADGRAGVMGPPGSRGASGPAGVRGPNGDAGRPGEPGLMGPRGLPG
 SPGNIGPAGKEGPVGLPGIDGRPGPIGPAGARGEPPNIGFPGPKGPTGDPGKNGDK
 GHAGLAGARGAPGPDGNNGAQGPPGPQGVQGGKGEQPPGPPGFQGLPGPSGP
 AGEVGKPGERGLHGEFGLPGPAGPRGERGPPGESGAAGPTGPIGSRGPSGPPGP
 DGNKGEPGVVGAVGTAGPSGPSGLPGERGAAGIPGGKGEKGEPLRGEIGNPGR
 DGARGAPGAVGAPGPAGATGDRGEAGAAGPAGPAGPRGSPGERGEVGPAGPNG
 FAGPAGAAGQPGAKGERGAKGPKGENGVVGPTGPVGAAGPAGPNGPPGPAGSR
 GDGGPPGMTGFPGAAGRTGPPGPSGISGPPGPPGPAGKEGLRGPRGDQGPVGRT
 GEVGAVGPPGFAGEKGPSGEAGTAGPPGTPGPQGLLGAPGILGLPGSRGERGLPG
 VAGAVGEPGLGIAGPPGARGPPGAVGSPGVNGAPGEAGRDGNPGNDGPPGRDG
 QPGHKGERGYPGNIGPVGAAGAPGPHGPVGPAGKHGNNRGETGPSGPVGPAGAV
 GPRGPSGPQGIRGDKGEPGEKGPRLPGLKGHNGLQGLPGIAGHHGDQGAPGSV
 GPAGPRGPAGPSGPAGKDGRTGHPGTVGPAGIRGPQGHQGPAGPPGPPGPPGP
 PGVSGGGYDFGYDGDFFYRAGGGGSHHHHHH*

Purity > 90 %

Storage Store at -20 centigrade to -80 centigrade

Storage Buffer PBS, pH 6.8

GENE INFORMATION

Gene Name COL1A2 collagen type I alpha 2 chain [Homo sapiens (human)]

Official Symbol COL1A2

Synonyms OI4; EDSCV; EDSARTH2

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Gene ID	1278
mRNA Refseq	NM_000089
Protein Refseq	NP_000080
MIM	120160
UniProt ID	P08123

