

# Recombinant Full Length Human COL5A1 Protein, GST-tagged

**Cat. No.** COL5A1-2166HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human COL5A1 full-length ORF ( AAH08760, 1 a.a. - 591 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>Protein Length</b>	591 amino acids
<b>Description</b>	<p>This gene encodes an alpha chain for one of the low abundance fibrillar collagens. Fibrillar collagen molecules are trimers that can be composed of one or more types of alpha chains. Type V collagen is found in tissues containing type I collagen and appears to regulate the assembly of heterotypic fibers composed of both type I and type V collagen. This gene product is closely related to type XI collagen and it is possible that the collagen chains of types V and XI constitute a single collagen type with tissue-specific chain combinations. The encoded procollagen protein occurs commonly as the heterotrimer pro-alpha1(V)-pro-alpha1(V)-pro-alpha2(V). Mutations in this gene are associated with Ehlers-Danlos syndrome, types I and II. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013]</p>
<b>Molecular Mass</b>	90.53 kDa
<b>AA Sequence</b>	<p>MGPPGPPGPRGPSGAPGADGPQGPPGGIGNPGAVGEKGEPGEAGEPGLPGEGG  PPGPKGERGEKGESGPSGAAGPPGPKGPPGDDGPKGSPGPVGFPGDPGPPGEP  GPAGQDGPPGDKGDDGEPGQTGSPGPTGEPGSPGPPGKRGP GPAGPEGRQGE</p>

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

KGAKGEAGLEGPPGKTGPIGPQGAPGKPGPDGLRGIPGPVGEQGLPGSPGPDGPP  
 GPMGPPGLPGLKGDSPGPKGEKGHPGLIGLIGPPGEQGEKGDRLPGPQGSSGPK  
 GEQGITGPSGPIGPPGPPGLPGPPGPKGAKGSSGPTGPKGEAGHPGPPGPPGPPG  
 EVIQPLPIQASRTRRNIDASQLLDDNGENYVDYADGMEEIFGSLNSLKLEIEQMKRP  
 LGTQQNPARTCKDLQLCHPDFDPDGEYWVDPNQGCSRDSFKVYCNFTAGGSTCVF  
 PDKKSEGARITSWPKENPGSWFSEFKRGKLLSYVDAEGNPVGVVQMTFLRLLSASA  
 HQNVTYHCYQSVAWQDAATGSYDKALRFLGSNDEEMSYDNNPYIRALVDGCATKK  
 GYQKTVLEIDTPKVEQVPIVDIMFNDGFEASQKFGFEVGPACFMG

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 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

**Gene Name**

COL5A1 collagen, type V, alpha 1 [ Homo sapiens ]

**Official Symbol**

COL5A1

**Synonyms**

COL5A1; collagen, type V, alpha 1; collagen alpha-1(V) chain; alpha 1 type V collagen

**Gene ID**

1289

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mRNA Refseq	NM_000093
Protein Refseq	NP_000084
MIM	120215
UniProt ID	P20908

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