

## Product datasheet for PH311766

### Collagen III (COL3A1) (NM\_000090) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	COL3A1 MS Standard C13 and N15-labeled recombinant protein (NP_000081)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211766
Predicted MW:	138.6 kDa
Protein Sequence:	>Peptide sequence encoded by RC211766 Blue=ORF Red=Cloning site Green=Tag(s)

MMSFVQKGSWLLALLHPTIILAQQEAVEGGCSHLGQSYADRDVWKPEPCQICVCDSSGVLCCDDIICDD  
 QELDCPNPEIPFGECCAIVCPQPTAPTRPPNGQPQGPKGDPGPPGIPGRNGDPGIPGQPGSPGSPGPP  
 GICESCPTGPNYSPQYDSYDVKSGVAVGGLAGYGPAGPPGPPGPGTSGHPGSPGSPYQGGPEPG  
 QAGSPGPPGPPGAI GSPGPAKDGESGRPRGERGLPGPPGIKGPAGIPGPFPMKGHRGFDGRNGEKG  
 ETGAPGLKGENLPGENGAPGPMGPRGAPGERGRPLPGAAGARGNDGARGSDGQPPGPPGPTAGFPG  
 SPGAKGEVGPAGSPGNGAPQRGEPGQGHAGAQQPPGPPGINGSPPGKGMGPAGIPGAPLMGARG  
 PPGPAGANGAPL RGGAGEPGKNGAKGEPGRGERGEAGIPGVPAKGEDGKDGSPGEPGANLPGAAG  
 ERGAPGFRGPAGPNGIPGEKGPAGERGAPGAPRGAAGEPGRDGVPPGGMGMGSPGPGSDGKPG  
 PPGSQGESGRPGPPGSPGPRGQPGVMGFPGPKGNDGAPKNGERGGPPGPPGQPPGKNGETGPPGPPG  
 PTGGGDKGDTGPPGPPQLQGLPGTGGPPGKNGEPGPKGDAGAPGAPGGKGDAGAPGERGPPGLAG  
 APGLRGGAGPPGEGGKGAAGPPGPPGAAGTPGLQGMGERGGLGSPGPKGDKGEPGGADGVPKDG  
 PRGPTGPIGPPGAGQPGDKGEGGAPLPGIAGPRGSPGERGETGPPGPAFFGAPGQNGEPGGKGERG  
 APGEKGGGPPGVAGPPGSGPAGPPGQVKGERSPPGGAAGFPGARGLPGPPGSNGNPPGPPGSPG  
 SPGKDGPPGAGNTGAPGSPGVSGPKGDAGQPEKGSPPGAPGAPGLIAGITGARGLAGPPGMPG  
 PRGSPGQGVKGESGKPGANL SGERGPPGQGLPGLAGTAGEPGRDGNPDSGLPGRDGSPPGKGDGRG  
 ENGSPGAPGAPGHPGPPGVPAGKSGDRGESGAPGAPGAPGAPSRGAPGQPPRDKGETGERGAAG  
 IKGHRGFPNGAPGSPGAPGQQAIGSPGAPRGPVGPSPGPKDGTSGHPGPIGPPGPRGNRGERG  
 SEGSPGHPGQPPGPPGAPGCCGGVGAAGIAGIGGEKAGGFAPYYGDEPMDFKINTDEIMTSLKSVN  
 GQIESLISPDGSRKNPARNCRDLKFCHEPKSGEYVWDPNQCKLDAIKVFCNMETGETCISANPLNVP  
 RKHWWTDSSAEKHWVFGESMDGGFQFSYGNPELPELVLDVQLAFLRLSSRASQNTYHCKNSIAYMD  
 QASGNVKKALKLMGSNEGEFKAEGNSKFTYTVLEDGCTKHTGEWKTVEYRTRKAVRLPIVDIAPYDI  
 GGPDQEFVDPVPCFL  
 TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Recombinant protein using RC211766 also available, [TP311766](#)

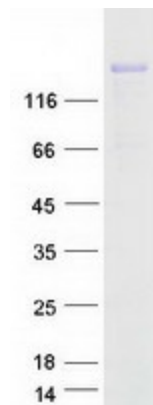
Tag: C-Myc/DDK



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<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Labeling Method:</b>	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3
<b>Storage:</b>	Store at -80°C. Avoid repeated freeze-thaw cycles.
<b>Stability:</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_000081</a>
<b>RefSeq Size:</b>	5489
<b>RefSeq ORF:</b>	4398
<b>Synonyms:</b>	EDS4A; EDSVASC; PMGEDSV
<b>Locus ID:</b>	1281
<b>UniProt ID:</b>	<a href="#">P02461</a>
<b>Cytogenetics:</b>	2q32.2
<b>Summary:</b>	This gene encodes the pro-alpha1 chains of type III collagen, a fibrillar collagen that is found in extensible connective tissues such as skin, lung, uterus, intestine and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome types IV, and with aortic and arterial aneurysms. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalgleish, Feb 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	ECM-receptor interaction, Focal adhesion

### Product images:



Coomassie blue staining of purified COL3A1 protein (Cat# [TP311766]). The protein was produced from HEK293T cells transfected with COL3A1 cDNA clone (Cat# [RC211766]) using MegaTran 2.0 (Cat# [TT210002]).