



[Go to Product page](#)

Datasheet for ABIN3136890  
**COL20A1 Protein (AA 26-1320) (His tag)**

### Overview

Quantity:	1 mg
Target:	COL20A1
Protein Characteristics:	AA 26-1320
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This COL20A1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

### Product Details

Sequence: QVSSRLRLAV LPEDQLQMKW REAEGSGLGF LVQVTPMAGD LEQELILTTK TPKATVGGLN  
PSKSYTLQIF ELTDSGPILL ARREFVIEDL KSQSLGRGSR RLAGATLEPT SLPLRGPDSE  
KTSEPSIAFT LSRDLPILDH PQFQCTPPTP ADIIFLVDGS WSIGHNHFFQQ VKDFLASIIT  
QFAIGPDKVQ VGLTQYSGDP QTEWDLNSFQ TKEQVLAAVH HLRKYGGNTF TGLALTHVLE  
QNLKPAAGVR PEA AKVLILV TDGKSQDDVR TAARILKDQD IDVFVGVKN VDEAELKLLA  
SQPLDITVHN VLD FPQLDTL APLLSR LICQ KIQGRGPVKP AAGTRVLDPL PTPTRLILTH  
ATSSSIHLSW TPALYPPLKY LIVWQPSRGG APKEVVVEGP VSSMELGNLT SSTEYLVSVL  
PVYESGVGKS LQGRATTAPL PPPGPLTLAA VTPRTLHVTW PPSAGVTQYL VQYLLATSTG  
EEQKREHVHG QPEVLLDGL E PGQDYDVSQV SLRGPEASEV QSIRARTSAL GPPRH LTFSD  
VRYNSTCVSW EAQRPVRLVK VSYISSD GSH SGQTQVPGNL TSATLGPLSS STMYTVRVT C  
FYLGGGSSVL TGHVTTQKAP SPGQLSVMEL PGDAVKLSWL ATALSGVLVY QIKWMPLGEG  
KAREISVPGT LGTATLPGLM KHVEYEITIL AYYRDGTRSD PVSLRYTPSA ASRSPSSLA

LSSETPNSLQ VNWTPPSGHV LHYRLNYTLA SGSGPEKSI VPGTRSHAVL RDLMSATKYR  
VLVSAVYRAG ESMAVSATYR TAACPALHPD SSLSGFDLMV AFGLVAKEYA SIRGVAMEPS  
ALGVVPTFTL FKDAQLMRRV SDIYPATLPP EHTIVFLVRL LPETPREAFA LWQMMMAEDFQ  
PILGVLLDAG RKSLTYFNHD SRAALQEVTF DLQDAKKIFF GSFHKVHIAV GHSKVRLYVD  
CRKVAERPIG DAGSPPTGGF ITLGRLAKAR GPRSSSATFQ LQMLQIVCSD TWADKDRCC  
IPALRDGETC PAFPSACAYS SETPGPPGPQ GPPGLPGRNG PPGQQGHPGP KGEPGPPGQT  
GPEPGGQQG SPGTQGRAVQ GPMGPPGAKG EKGDQGLSGL QGLSGQQGIP GKTGLQGPKG  
MRGLEPAGL PGPPGPRGFQ GLAGARGTNG ERGAPGAVGP TGLPGSKGER GEKGEPQSLA  
TIFQLVSQAC ESAIRTHVLK LNSFLHENAR PMPFMAETA KLGRPRSIDP GLHNEALLPG  
DWGHILRPED QGEPVTISHT SNPRLQEVQT PESLE

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Col20a1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

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### Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three

## Product Details

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different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.

2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

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Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Sterility: 0.22 µm filtered

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Endotoxin Level: Protein is endotoxin free.

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Grade: Crystallography grade

## Target Details

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Target: COL20A1

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Alternative Name: Col20a1 ([COL20A1 Products](#))

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Background: Probable collagen protein.

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Molecular Weight: 139.1 kDa Including tag.

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UniProt: [Q923P0](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

## Handling

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)