

## Product datasheet for **RG220895**

### COL11A1 (NM\_080629) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COL11A1 (NM_080629) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COL11A1
Synonyms:	CO11A1; COLL6; DFNA37; STL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220895 representing NM_080629 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCGTGGTCTCTAGGTGGAAAACGAAACGGTGGCTCTGGGATTCACCGTAACAACCTCGCAT  
TGACCTTCCTCTCCAAGCTAGAGAGGTGAGAGGAGCTGCTCCAGTTGATGTACTAAAAGCACTAGATTT  
TCACAATTCTCCAGAGGGAATATCAAAAACAACGGGATTTGCACAAACAGAAAGATTCTAAAGGCTCA  
GATACTGCTTACAGAGTTTCAAAGCAAGCACAACCTCAGTGCCCAACAAAACAGTTATTTCCAGGTGGAA  
CTTTCCAGAAAGACTTTTCAATACTATTTACAGTAAAACCAAAAAAGGAATTCAGTCTTCTCTTTTATC  
TATATATAATGAGCATGGTATTACAGCAAATTTGGTGTGAGGTTGGGAGATCACCTGTTTTCTGTTTGA  
GACCACACTGGAAAACCTGCCCCAGAAGACTATCCCCTCTTCAGAACTGTTAACATCGCTGACGGGAAGT  
GGCATCGGGTAGCAATCAGCGTGGAGAAGAAAACCTGTGACAATGATTGTTGATTGTAAGAAGAAAACCA  
GAAACCACTTGATAGAAGTGAGAGAGCAATTGTTGATACCAATGGAATCACGGTTTTTGGAAACAGGATT  
TTGGATGAAGAAGTTTTTGGGGGACATTACAGCAGTTTTTGTACACAGGTGATCCCAAGGCAGCATATG  
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GATAGATGAGAAAAAGAAATCCAATTTCAAAAAGAAGATGAGGACAGTGGCTACTAAATCAAAGGAAAA  
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CAAAAGCCAAACTAGGGGTAAAGGCAAAACATCGTTGATGATTTTCAAGAATACAACATATGGAACAATGGA  
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TTACCAGGGGCTGATGGTCTACCTGGTCTCTGGTACTATGTTGATGTTACCGTTCGGTTATGGTGGTG  
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 ATGGATTGATCCTAACCAAGGTTGCTCAGGAGATTCTTCAAAGTTTACTGTAATTTACATCTGGTGG  
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 GGAAGTTGGTTAGTGAATTTAAGAGGGGAAAACCTGCTTTCATACTTAGATGTTGAAGGAAATTCATCA

ATATGGTGCAAATGACATTCTGAAACTTCTGACTGCCTCTGCTCGGCAAAATTTACCTACCACTGTCA  
 TCAGTCAGCAGCCTGGTATGATGTGTCATCAGGAAGTTATGACAAAGCACTTCGCTTCTGGGATCAAAT  
 GATGAGGAGATGCCTATGACAATAATCCTTTTATCAAAACACTGTATGATGGTTGTACGTCCAGAAAAG  
 GCTATGAAAAGACTGTCATTGAAATCAATACACCAAAAATTGATCAAGTACCTATTGTTGATGTCATGAT  
 CAATGACTTTGGTGATCAGAATCAGAAGTTCGGATTTGAAGTTGGTCTGTTTGTCTTCTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG220895 representing NM\_080629  
 Red=Cloning site Green=Tags(s)

MEPWSSRWKTKRWLWDFVTTLALTFLLQAREVRGAAPVDVLKALDFHNSPEGISKTTGFCTNRKNSKGS  
 DTAYRVSKQAQLSAPTKQLFPGGTFPEDFSILFTVKPKKGIQSFLLSIYNEHGIQQIGVEVGRSPVFLFE  
 DHTGKPAPEYDPLFRTVNIADGKWHRVAISVEKKTVMIVDCKKTTKPLDRSERAIVDNITVFGTRI  
 LDEEVFEGDIQQFLITGDPKAAAYDYCEHYSPDCSSAPKAAQAQEPQIDEKKSNFKKMRTVATKSKKEK  
 SKKFTPPKSEKFSKKKKSYQASAKAKLVKANI VDDFQEYNYGTMESYQTEAPRHVSGTNEPNPVEEIF  
 TEEYLTGEDYDSQRKNSEDTLYENKEIDGRSDLLVDGDLGEYDFEYKEYEDKPTSPNEEFGPVPAAE  
 TDITETSINGHGAYGEKQKGEPAVVEPGLVEGPPGAPGAGIMGPPGLQGPTGPPGDPGRGPPGRPG  
 LPGADGLPGPPGTMMLPFRYGGDGSKGPTISAEQAQAAILQQARIALRGPPGMGLTGRPGVGGPGS  
 SGAKGESGDPGPQGRVQGPPTGPKGRGRPGADGGRMPGEPGAKGDRGDFGLPGLPGDKGHRGER  
 GPQGGPPGDDGMRGEDGEGIGRPLPGEAGRGLLGRGTPGAPGQPMAGVDGPPGPKGNMGPQGE  
 PPGQQGNPQPGLPGPQPIGPPGKGPQKPLAGLPGADGPPGHPGKEGQSGEKALGPPGPQPIGY  
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 GQAGEKGLGVPGLPGYGRQGPKGSTGFPFGANGEKARGVAGKPGPRGQRGPTGPRGSRGARGPTG  
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 FGQKDEGARGFPGPPPIGLQGLPAPPGEKGENGVGPWPPGPPGPRGQGPNGADGPQPPGVS  
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 PPGEGLGAPAGDGVGGDKGEDGDPGPPGPPSGEAGPPGPPGKRGPPGAAGAEGRQGEKGAKEAGAE  
 PGKTGPVGPQGPAGKPGPEGLRIGPVPGEQGLPGAAGQDGGPPGPPGLPGLKGDGPKGKGPGLI  
 GLIGPPGEQGEKDRGLPGTQGSPPGAKDGGIPGAPPLGPPGPPGLPGPQPKGNKGSTGPAGQKGD  
 LPGPPPPGPPGEVIQPLPILSSKTRRHTEGMQADADDNILDYSDGMEEIFGSLNSLKQDIEHMKFPMG  
 TQTNPARTCKDLQLSHPDFPDGEYWIDPNQCGSGDSFKVYCNFTSGGETCIYDKKSEGVRISWPKEK  
 GSWFSEFKRGLLSYLDVEGNSINMVQMTFLKLLTASARQNFYHCHQSAAWYDVSSGSYDKALRFLGSN  
 DEEMSYDNNPFIKTLYDGTSRKGYEKTVIEINTPKIDQVPIVDVMINDFGDQNKFGFEVGPVCFGLG

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul



<b>ORF Size:</b>	5454 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_080629.1</a> , <a href="#">NP_542196.1</a>
<b>RefSeq Size:</b>	6355 bp
<b>RefSeq ORF:</b>	5457 bp
<b>Locus ID:</b>	1301
<b>UniProt ID:</b>	<a href="#">P12107</a>
<b>Cytogenetics:</b>	1p21.1
<b>Protein Pathways:</b>	ECM-receptor interaction, Focal adhesion
<b>Gene Summary:</b>	<p>This gene encodes one of the two alpha chains of type XI collagen, a minor fibrillar collagen. Type XI collagen is a heterotrimer but the third alpha chain is a post-translationally modified alpha 1 type II chain. Mutations in this gene are associated with type II Stickler syndrome and with Marshall syndrome. A single-nucleotide polymorphism in this gene is also associated with susceptibility to lumbar disc herniation. Multiple transcript variants have been identified for this gene. [provided by RefSeq, Nov 2009]</p>