

Product datasheet for **RG215981**

Collagen XV (COL15A1) (NM_001855) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen XV (COL15A1) (NM_001855) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Collagen XV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215981 representing NM_001855 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCACCAAGGAGGAACAACGGGCAGTGCTGGTGTCTGCTGATGCTGCTCTCGGTCTCCACGCCCTCC
CTGCTGTACCCAGACCCGCGGTGCGACAGAGACTGCTTCCCAGGGTACCTGGACCTCACGCAGTTCAT
CGGTGTCCCGCTGCCCTCGTCCGATCCTTTGTACAGGCTATGGTGGCTTCCCGGCTACAGTTTCGGG
CCTGGTGCCAATGTTGGCCGCCAGCAGGACTCTCATCCATCCACCTTCTTCAGGGACTTCGCCATCA
GGGTCTGGTGAAGCCAGCAGCACCCGTGGTGGCGTCTCTTCGCCATCACTGACGCCTTCCAGAAGGT
CATCTACCTGGGCTGCGGCTCTCAGGTGTGGAGGACGGCCACCCAGCGGATCATCTCTACTACACGGAG
CCAGGCTCCCATGTGTCCAAGAAGCTGCTGCCTTCTCGGTGCCTGTGATGACCCACAGGTGGAACCGCT
TCGCCATGATTGTCCAGGGTGAAGAGTGACCCTCCTCGTGAAGTGTGAGGAGCACAGCCGATCCCTT
CCAGCGGTCTCCAGGCTTTGGCTTTGAGTCCAGCGCTGGAATCTTCATGGGCAATGCAGGAGCTACA
GGGCTCGAGAGATTCACTGGCTCCCTCCAGCAGCTCACCGTGACCCGACCCAGGACTCCCGAGGAGC
TGTGTGACCTGAAGAGTCTCGGCATCTGGAGAGACAGTGGGTGCAGGAGGCAGACGGAGTAGCTGA
GATCTTAGAAGCCGTACCTAAGCTCAAGCCTCGCCAAAGAAGAAAAGTTGAACCCATAAACACACCT
CCAAGTCCATCTCCCTTTGAAGACATGGAAGTCTTCTGGTGAAGTGTACCCGAGGGGACCCTGGAAA
CCACCAACATGAGCATCATCCAGCACAGCAGCCCAACAAAGGGTCTGGTGAAGTCTGATGACACACT
GGAGGGGGTTCATTCTGTGGATGGTGACCCATTACTGACAGCGGCTCAGGGGCTGGGGCTTCTTGAC
ATTGCTGAAGAAAAGATTTAGCAGCAACAGCAGCGGGGTGGCCGAGGTGCCCATCAGCACTGCTGGAG
AAGCAGAGGCCAGCAGTGTGCCACCGGGGACCAACCTCTCTATGTCCACGGAGAACCAGAGGAAGG
GGTCACTCCAGGTCCAGATAATGAAGAGCGTTTACGAGCAACAGCAGCAGGGGAGGCCGAGGCACTCGCC
AGCATGCCTGGGAAGTGGAGGCCAGTGGTGTGGCCCCGGGGAGCTGGACCTCTCCATGTCCGCCCAGA
GCCTCGGGGAAGAGGCCACTGTGGGTCCAAGCAGTGAAGACAGTTTAAACACAGCTGCAGCTGCAACCGA
AGTGTCCCTCAGTACTTTGAGGATGAGGAAGCAGTGGGGTCCCCACAGATGGCCTGGCTCCCTCACA
GCCACCATGGCCCTGAGCGGGCAGTCACTTCTGGTCTGGTGAAGAAAGACTTGGCAGCAGCCACAA
CAGAGGAGCCCTCATCACAGCTGGGGTGAAGAGTCCGGCAGCCCTCCCTCTGATGGGCCACCGCTGCC



[View online »](#)

CCTGCCACAGTGGCTCCTGAAAGATGGATCACTCCAGCTCAAAGAGAACATGTGGGAATGAAAGGACAG
 GCTGGGCCCAAAGGAGAAAAGGGTGATGCTGGGGAGGAGCTTCCTGGCCCTCCTGAACCTTCTGGGCCTG
 TTGGACCCACGGCAGGAGCAGAAGCAGAGGGCTCTGGCCTAGGCTGGGGCTCGGACGTCGGCTCTGGCTC
 TGGTGACCTGGTGGGCAGTGAGCAGCTGCTGAGAGGTCTCCAGGACCCCAAGGGCCACCTGGCTTACCT
 GGGATTCCAGGAAAACAGGAAGTATGTTTTCATGGGACCCCTGGATCTCCTGGAGAGGATGGACCTG
 CTGGTGAACCTGGGCCCCCGGGCCTGAGGGACAGCCTGGAGTTGATGGAGCCACCGGCCTTCCCGGGAT
 GAAAGGGGAGAAGGGAGCAAGAGGGCCTAATGGCTCAGTTGGTGAAAAGGGTGACCTGGCAACAGAGGC
 TTACCTGGACCCCGGGGAAAAAGGGACAAGCTGGCCCTCCTGGGGTCATGGGACCCCAAGGGCCTCCTG
 GACCCCTGGGCCCCAGGCCCTGGATGCACAATGGGACTTGGATTGAGGATACCGAAGGCTCTGGAAG
 CACCCAGCTATTGAATGAACCCAACTCTCCAGACCAACGGCTGCAATTGGTCTCAAAGGAGAGAAAAGGA
 GACCGGGGACCAAGGGAGAAAGGGGATGGATGGAGCCAGTATTGTGGGACCCCTGGGCCGAGAGGGC
 CACCTGGGCACATCAAGGTCTTGCTAATTCTTGATCAATATCACCCATGGATTGATGATTTCTCGGA
 CATTCTGAGCTGGTGGGCCTCCGGGGCCGACGGGTGCTGGGCTGCCAGGATTTCCAGGTCTAGA
 GGACAAAAGGTGACACTGGTTTACCTGGCTTCCAGGACTAAAAGGAGAACAGGGCGAGAAGGGAGAGC
 CGGGTGCCATCCTGACAGAGGACATTCTCTGAAAGGCTGATGGGAAAAAGGGTGAACCTGGAATGCA
 TGGAGCCCAAGGACCAATGGGGCCCAAAGGACCACAGGACATAAAGGAGAATTTGGCCTTCCCGGGCGA
 CCTGGTCGCCCAGGACTGAATGGCTCAAGGTACCAAAGGAGATCCAGGGGTGATTATGACAGGGCCAC
 CTGGCTTACCTGGCCCTCCAGGCCCCCTGGGCCACCTGGAGCTGTGATTAACATCAAAGGAGCCATTTT
 CCCAATACCCGTCCGACCACACTGCAAAATGCCAGTTGATACTGCTCATCCTGGGAGTCCAGAGCTCATC
 ACTTTTACCGGTGTTAAAGGAGAGAAAGGATCCTGGGGTCTTCTGGCTCAAAGGAGAGAAAAGGGCACC
 AGGGAGCCAGGGACACAGGTCTCCACTTGATCTAGCTTACCTGAGACACTTCTGAACAATTGAA
 GGGGAGAAATGGAGACAAGGGGTTCAAAGGTGAAAAGGAGAGAAAAGGAGACATTAATGGCAGCTTCCTT
 ATGTCTGGGCCTCCAGGCCTGCCCGAAATCCAGGCCCGCTGGCCAAAAGGGGAGACAGTCGTTGGGC
 CCCAAGGACCCCAAGGTGCTCCTGGTCTGCCTGGGCCACCTGGCTTTGGAAGACCTGGTGATCCTGGGCC
 ACCGGGGCCCCGGGGCCACAGGACCTCCAGCTATCCTGGGAGCAGCTGTGGCCCTTCCAGGTCCCCCT
 GGCCCTCCAGGACAGCCAGGGCTTCCCGGATCCAGAACTGGTCACAGCATTGCAACATGGATGACA
 TGCTGCAGAAAGCGCATTGTTATAGAAGGAACATTCATCTACCTGAGGGACAGCACTGAGTTTTTCAT
 TCGTGTTAGAGATGGCTGGAAAAAATTACAGCTGGGAGAACTGATCCCCATTCTGCCGACAGCCCTCCA
 CCCCTGCGCTTCCAGCAACCCACATCAGCTTCTGCCTCCACCAAAACCCTATTTCAAGTGCCAATTATG
 AGAAGCCTGCTCTGCATTTGGCTGCTCTGAACATGCCATTTTCTGGGGACATTGAGCTGATTTTCAGTG
 CTTCAAGCAGGCCAGAGCTGCAGGACTGTTGTCCACCTACCGAGCATTCTATCTTCCCATTTGCAAGAT
 CTGTCCACCATTTGTAGGAAAGCAGAGAGATACAGCCTTCCCATAGTGAACCTCAAGGGCCAAGTACTTT
 TTAATAATTGGGACTCAATTTTTCTGGCCACGGAGGTGAGTTCAATATGCATATTCCAATATACTCCTT
 TGATGGTCGAGACATAATGACAGATCCTTCTTGGCCCCAGAAAGTCATTTGGCATGGCTCCAGCCCCAT
 GGCGTCCGCCTTGTGGATAACTACTGTGAAGCATGGCGAACCGCGGACACAGCGGTACGGGACTTGCTT
 CCCCCTGAGCACGGGGAAGATTCTGGACCAGAAAGCATACAGCTGTGCTAATCGGCTAATTGTCCTATG
 TATCGAAAACAGTTTCATGACAGACGCTAGGAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG215981 representing NM_001855
 Red=Cloning site Green=Tags(s)

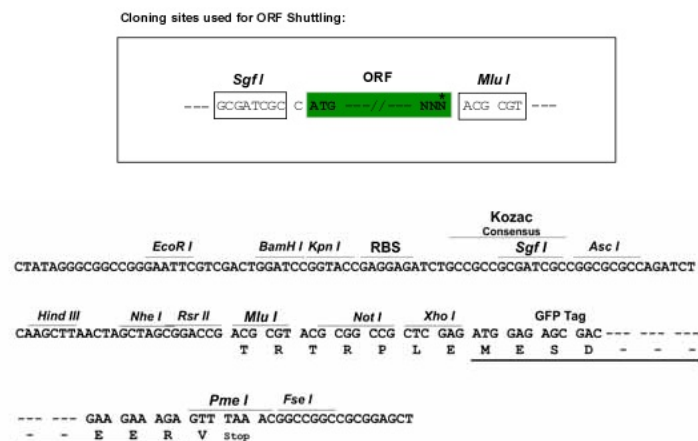
MAPRRNNGQCWCLLMLLSVSTPLPAVTQTRGATETASQGHLDLTQLIGVPLPSSVSFVTGYGGFPAYSFG
 PGANVGRPARTLIPSTFFRDFAIRVVVKPSSTRGGVLFITDAFQKVIYLGRLSGVEDGHQRIILYYTE
 PGSHVSQEAFAAFSVPVMTNRNRFAMIVQGEVTLVNCEEHSRIPFQRSSQALAFESSAGIFMGNAGAT
 GLERFTGSLQQLTVHPDPRTPEELCDPEESSASGETSGLQEADGVAEILEAVTYTQASPKEAKVEPINTP
 PTPSSPFEDMELSGEPVPEGTLETTNMSIIQHSSPKQSGEILNDTLEGVHSVGDGPITDSGSGAGAFD
 IAEENLAATAAGLAEVPISTAGEAEASSVPTGGPTLSMSTENPEEGVTPGPDNEERLRATAAGEAEALA
 SMPGEVEASGVAPGELDLMSAQSLEGEATVGPSSDSLTTAAATEVSLSTFEDEEASGVPTDGLAPLT
 ATMAPERAVTSGPGDEEDLAAATTEPLITAGGEESGPPPDGPPLPLPTVAPERWITPAQREHVMKGQ
 AGPKGEKGDAAGEELPGPPEPSGPVGPTAGAEAGSGLGWGSDVSGSGDLVGSEQLLRGPPGPPGPPGLP
 GIPGKPGTDVFMGPPGSPGEDGPAGEGPPGPEGQPGVDGATGLPGMKGEKGARGPNSVGEKGDGPNRG
 LPGPPGKKGQAGPPGVMGPPGPPGPPGPGCTMGLGFEDTEGSGSTQLLNEPKLSRPTAAIGLKGEKG
 DRGPKGERGMDGASIVGPPGPRGPPGHKVLNSLINITHGFMNFSDIPELVGPPGPDGLPGLPGFPGPR
 GPKGDTGLPGFPGLKGEQGEKGEPGAILEDIPLERLMGKKGEPMHGAPGPMGPKGPPGHKGEFGLPGR
 PGRPGLNGLKGTGDPGVIMQGPPLPGPPGPPGPPGAVINIKGAIFIPVRPHCKMPVDTAHPGSPELI
 TFHGVKGEKGSWGLPGSKGEKGDQGAQPPGPPLDLAYLRHFLNNLKGENGDKGFKGEKGEKGDINGSFL
 MSGPPGLPGNPGAGQKGETVVGPPQGPAGPLPGPPGFRGPDGPPGPPGPPGPPAILGAVALPGPP
 GPPGQPLPGSRNLVTAFSNMDDMLQKAHLVIEGTFIYLRDSTEFFIRVRDGWKKLQGLGELIPIADSP
 PPALSSNPQHLLPPNPISANYEKPALHLAALNMPFSGDIRADFQCFKQARAAGLLSTYRAFLSSHLQD
 LSTIVRKAERYSLPIVNLKGQVLFNNWDSIFSGHGGQFNMHIPIYSFDGRDIMTDPSPWKVVIWHGSSPH
 GVRLVDNYCEAWRTADTAVTGLASPLSTGKILDQKAYSCANRLIVLCIENSFMTDARK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001855

ORF Size: 4164 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	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).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_001855.2 , NP_001846.2
RefSeq Size:	5222 bp
RefSeq ORF:	4167 bp
Locus ID:	1306
UniProt ID:	P39059
Cytogenetics:	9q22.33
Gene Summary:	This gene encodes the alpha chain of type XV collagen, a member of the FACIT collagen family (fibril-associated collagens with interrupted helices). Type XV collagen has a wide tissue distribution but the strongest expression is localized to basement membrane zones so it may function to adhere basement membranes to underlying connective tissue stroma. The proteolytically produced C-terminal fragment of type XV collagen is restin, a potentially antiangiogenic protein that is closely related to endostatin. Mouse studies have shown that collagen XV deficiency is associated with muscle and microvessel deterioration. [provided by RefSeq, May 2013]

