

Product datasheet for **RG221279**

COL14A1 (NM_021110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL14A1 (NM_021110) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COL14A1
Synonyms:	UND
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221279 representing NM_021110 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGATTTCCAGCGCAAGATGCGGTACTGGTTGCTTCCACCTTTTTGGCAATTGTTTATTTCTGCA
CCATTGTCCAAGGTCAAGTGGCTCCACCCACAAGGTTAAGATATAATGTAATATCTCATGACAGTATACA
GATTTTCATGGAAGGCTCCAAGAGGGAAATTTGGTGGTTACAACTTCTTGTGACTCCAATTCAGGTGGA
AAAATAACCAGCTGAATCTGCAGAACTGCAACTAAAGCAATTATTCAAGGCTTATGCCAGACCAGA
ATTACACAGTTCAAATTATTGCATACAATAAGATAAAGAAAGCAAGCCAGCTCAAGGCCAATTCAGAAT
TAAAGATTTAGAAAAAGAAAGGATCCAAAGCCCAGAGTCAAAGTTGTGGACAGAGGAAATGGGAGTAGA
CCATCTTCACCAGAAGAAGTGAATTTGTCTGTCAAACCTCCAGCAATTGCTGACATTGTAATCCTGGTCG
ATGGTTTACGGAGTATTGGAAGATTCAACTTCAGACTGGTTCCGGCATTCTTGGAAAACCTGGTTACAGC
ATTCGATGTGGGCTCAGAGAAGACAGCAATTGGTCTTGCACAGTATAGTGGTGACCCAGAAATAGAATGG
CACTTGAATGCATTTAGCACAAAAGATGAAGTATTGAAGCTGTCCGAAACCTCCCATATAAAGGAGGAA
ATACACTAACAGGTCTTGCTTTGAACTACATTTTTGAAAATAGCTCAAACCAGAAGCAGGATCAAGGAC
TGGAGTATCCAAAATTGGCATTTTAATCACAGATGGAAAATCCCAAGATGACATTATTCCACCATCTAGA
AATCTTCTGTGAGTCTGGTGTAGAAGTGTGGCCATAGGGGTGAAAACCGGGATGTGAATGAGCTGCAGG
AGATCGCCTCTGAACCAGACAGCACTCATGTGTACAATGTTGCCGAATTCGATCTGATGCACACAGTTGT
GGAGAGTCTGACCAGGACTCTCTGCTCTAGAGTGAAGAACAGGACAGAGAAATTAAGCCCTCAGCCCAT
GCCATCACTGGGCCGCTACGGAGTTGATTACTTCTGAAGTCACTGCCAGAAGCTTTATGGTTAACTGGA
CTCATGCCCCAGGAAATGTGAAAAAATACAGAGTTGTGTATTATCCTACCAGGGGTGAAAAACCAGACGA
GGTGGTGGTAGATGGAAGTGTATCTTCCACAGTGTGAAAAACTGATGTCTTTAACTGAATATCAGATA
GCAGTCTTTGCAATCTATGCCACACTGCTAGTGAAGGCTACGGGAACTGAAACTACACTTGCTTTAC
CGATGGCTTCTGACCTTCTACTGTACGACGTGACTGAGAACAGCATGCGAGTCAAATGGGATGCAGTGCC
TGGGGCCTCAGGTTACCTGATCCTTTATGCTCCTAACAGAGGGCCTGGCTGGGATGAAAAAGAGATG



[View online »](#)

AAAATTGGAGAGACCCACACAGATATTGAATTGAGTGGGTTGTTGCCAATACAGAATACACAGTCACAG
 TTTATGCCATGTTTGGAGAAGAGGCCAGTGATCCTGTTACGGGACAAGAAACAACATTGGCTTTAAGTCC
 ACCAAGAAACCTGAGAATCTCCAATGTTGGCTCTAACAGTGCTCGATTAACCTGGGACCCAACTTCAAGA
 CAGATCAATGGTTATCGAATTGTATAAACAATGCAGATGGGACTGAAATCAATGAGGTTGAAGTCGATC
 CTATTACTACCTCCCTCTGAAGGGCTTGACACCTCTCACAGGTATACTATTGCTATTTTCTCCATCTA
 TGATGAAGGACAGTCAGAGCCTCTGACTGGAGTTTTTACCACCGAGGAAGTCCAGCCCAGCAACTACTTA
 GAAATGATGAGGTGACGACAGACAGTTTTAGGGTGACCTGGCATCCCCCTCTCAGTGATGAAGGGCTAC
 ACAAATGATGTGGATTCCAGTCTATGGGGGAAGACTGAGGAGTTGCTCTGAAAGAAGAGCAGGACTC
 ACATGTTATTGAAGGCCTGGAGCCCGTACGGAGTATGAAGTTTCACTATTGGCCGTA CTTGATGATGGA
 AGCGAGAGTGAGGTGGTACTGCTGTGCGGACCACACTTGACAGTTTTTGGACAGAACCGCTACAACCA
 TAGTGCCACCACATCTGTACTTCAGTTTTCCAGACGGGAATCAGAAACCTAGTTGTAGGTGATGAAAC
 TACTTCTAGCCTGCGGGTAAAATGGGACATTTCTGACAGCGATGTGCAGCAGTTTAGGGTGACCTACATG
 ACAGCTCAAGGGACCCCTGAGGAAGAAGTCATAGGAACGGTTATGGTGCCTGGAAGCCAGAACAACCTCC
 TTCTGAAGCCTCTGCTTCTGATACTGAATACAAAGTCACAGTGACTCCCATCTACACGGATGGCGAAGG
 CGTCAGCGTCTCCGCTCTGGAAAAACCTTACCATCCTCGGGGCCCCAGAACTTGGGGGTGTCGAGGAA
 TGGTATAACCGGTTGCGCATTACGTGGGACCCCCATCTCCCCGGTGAAGGCTATAGAATTGTCTACA
 AACCTGTCAAGTCTTCTGGTCCAACACTGGAAACGTTTGTGGGAGCTGACATTAACACCATCCTTATCAC
 AAACCTCCTCAGCGGAATGGACTACAATGTGAAGATATTTGCCTCCCAGGCCTCAGGCTTCAGCGACGCC
 CTGACAGGCATGGTGA AACATTGTTCTTGGGTGTTACCAATCTCCAAGCCAAACATGTTGAAATGACCA
 GCTTGTGTGCCACTGGCAGGTACATCGCCATGCCACAGCCTATAGGGTGTATAGAATCCCTCCAGGA
 TAGGCAAAAGCAAGAATCCACTGTGGGTGGAGGGACAACCAGGCATTGCTTCTATGGACTCAGCCTGAT
 TCTGAATATAAAATCAGTGTATATACAAAGTCCAGGAGATTGAAGGACCTAGTGTGAGCATAATGGAAA
 AAACACAATCACTTCTACACGACCACCACTTTTCTCCAACCATCCACCAGCAAAAGAAATGTATA
 GCGCGCAAGGCTGACCTGGTATTTATGGTGGATGGATCCTGGAGCATTGGAGATGAAAATTTCAATAAG
 ATCATCAGCTTTCTATACAGCACTGTTGGAGCCCTGAACAAGATTGGCACAGATGGAACCCAAGTTGCAA
 TGGTTCAGTTCAGTATGATCCCAGAACAGAAATTA AACTAAATGCTTACAAAACCAAAGAGACTTTCT
 TGATGCAATTAACACATTTTATACAAAGGAGGAAATACAAAACAGGAAAAGCAATTAAGTATGTTGCA
 GATACCTGTTCACTGCAGAGTCAGGTACAAGAAGGGGCATCCCAAAGGTTATCGTGGTTATAACTGATG
 GAAGATACAAGATGATGTGAACAAAATCTCCAGGGAGATGCAATTAGATGGCTATAGCATTTTTGCAAT
 TGGTGTGGCCGATGCAGATTACTCGGAGTTGGTTAGCATTGGCAGTAAGCCAGCGCACGCCATGTCTTC
 TTTGTGGATGACTTTGACGCCTTAAGAAAATCGAAGATGAGTTAATTACTTTTGTCTGCGAAACAGCAT
 CAGCAACCTGTCCAGTGGTACACAAGGATGGCATTGATCTTGCAGGATTAAGATGATGGAATGTTTGG
 TTTGGTTGAAAAAGATTTTTATCAGTGGAAAGGGTTTCTATGGAGCCTGGTACCTTCAATGTGTTTCCA
 TGTTACCAACTCCATAAAGATGCCTGGTTTCCAGCCAACCAGGTA CTTGACCCAGAAGGATTGCCCT
 CCGACTACACAATCAGTTTTCTATTCCGGATTCTTCTGACACTCCACAGGAGCCATTTGCTCTTTGGGA
 GATTTTAAATAAAAAATCTGACCATTGGTTGGGGTATTTTAGACAATGGTGGGAAAACCTAACATAT
 TTCAACTATGACCAGAGTGGGGATTTTCAAACCTGTTACTTTTGAAGGACCTGAAATTAGGAAAATTTTT
 ATGGAAGCTTTCACAAGCTACACATTGTGTGAGTACTTTGGTCAAAGTGGTATTGACTGCAAGCA
 AGTGGGTGAGAAGGCAATGAACGCATCAGCTAATATCACGTGAGTGGTGTAGAAGTCTAGGGAAAATG
 GTTCGATCAAGAGGACCAGGTGGAAACTCTGCACCGTTCCAGTTACAGATGTTTGATATTGTTTGTCCA
 CATCATGGGCAATACAGACAAATGCTGTGAACTTCCAGGCCTGAGAGATGATGAGTCTTGCCAGACCT
 TCCCCATTCTGCTCCTGTTCTGAAACCAATGAAGTGGCTCTGGGACCAGCGGGCCACCAGGTGGTCCA
 GGACTCCGAGGACCAAAGGGCCAGCAAGGTGAACCGGTCCAAAGGGACCAGATGGCCCTCGGGGTGAAA
 TTGGTCTGCCAGGACCTCAGGGTCCACCTGGACCTCAAGGACCAAGTGGTCTGTCCATTCAAGGAATGCC
 CGGAATGCCAGGAGAAAAAGGAGAGAAAGGAGATACTGGCCTTCCAGGTCCACAGGGTATCCAGGAGGC
 GTTGGTTCACCAGGACGTGATGGCTCACCAGGCCAGAGGGGCTTCCGGAAAGGATGGATCCTCGGGAC
 CTCAGGACCACCAGGGCAATAGGCATTCCTGGCACCCCTGGAGTCCCAGGGATCACAGGAAGCATGGG
 ACCGCAAGGCGCCTGGGACCACCTGGTGTCCCTGGAGCAAGGGGGAACGAGGAGAGCGGGGTGACCTG
 CAGTCTCAAGCCATGGTGAATCAGTGGCGCTCAAGTATGCGAACAGCTCATCCAGAGTCACATGGCCA
 GGTACTACTGCCATCCTCAACCAGATTCCAGCCACTCCTCATCCATCCGGACTGTCCAAGGGCTCCTGG
 GGAGCCTGGGAGGCCAGGCTCACCTGGAGCCCCTGGTGAACAAGGACCCCAAGGCACACCAGGCTTCCCC
 GGAAATGCAGGCGTGCCAGGGACCCAGGAGAACGAGGTCTAACTGGTATCAAAGGAGAAAAAGGAAATC

CAGGCGTTGGAACCCAAGGTCCAAGAGGCCCCCTGGACCAGCAGGACCTTCAGGGGAGAGTCGGCCTGG
 CAGCCCTGGGCCCCCTGGCTCTCCTGGACCAAGAGGCCACCAGGTCATCTGGGGTTTCTGGACCCCAA
 GGTCTTCTGGCCAGCCTGGATATTGTGACCCCTCATCATGTTCTGCCTATGGTGTGAGAGCTCCCCATC
 CAGATCAGCCAGAGTTACCCCTGTCCAAGATGAGCTGGAAGCCATGGAAGTGTGGGGCCCTGGAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221279 representing NM_021110
 Red=Cloning site Green=Tags(s)

MKIFQRKMRYWLLPPFLAIVYFCTIVQGGVAPPTRLRYNVISHDSIQISWKAPRGKFGGYKLLVPTSSG
 KTNQLNLQNTATKAI IQGLMPDQNYTVQIIAYNKDKESKPAQQQFRIKDLEKRKDPKPRVKVVDKNGSR
 PSSPEEVKFCVQTPAIADIVILVDGWSIGRFNFRVLRHFLENL VAFDVGSEKTRIGLAQYSGDPRIE
 HLNAFSTKDEVIEAVRNLPYKGGNTLTGLALNYIFENSFKPEAGSRTGVSIGILITDGKSQDDIIPPSR
 NLRESGVELFAIGVKNADVNELQEIASEPDSTHYVNAEFDLMHTVVESLTRTLCSRVEEQDREIKASAH
 AITGPPELITSEVTARSMVNWTHAPGNVEKYRVVYYPTRGGKPDVVVDGTVSSTVLKNLMSL TEYQI
 AVFAIYAHTASEGLRGTE TLLALPMASDLLLYDVTENSMRVKWDVAVPGASGYLILYAPLTEGLAGDEKEM
 KIGETHDIELSGLLPNTEYTVVYAMFGEEASDPVTGQETTLALSPRNLRI SNVGSNSARLTWDP TSR
 QINGYRIVYNNADGTEINEVEVDPITTFPLKGLTPLTEYTAIFSIYDEGQSEPLTG VFTTEEVPAAQYL
 EIDEVTTDSFRVTHWPLSADEGLHKL MWIPVYGGKTEEVLKKEEQDSHVIEGLEPGTEYEVSL LAVLDDG
 SESEVVTAVGTTLD SFWTEPATTIVPTTSVTSVFQTGIRNLVVGDETTSSLRVKWDISDSVQQFRV TYM
 TAQGDPEEEVIGTVMVPGSQNNLLKPLL PDTEYKVTVTPIYTDGEGSVSAPGKTL PSSGPQNL RVSEE
 WYNRLRITWPPSSPVKGYRIVYKPVSVPGPTLET FVGADINTILITNLLSGMDYNVKIFASQASG SDA
 LTGMVKTFLGVTNLQAKHVEMTSLCAHWQVHRHATAYRVVIESLQDRQKQESTVGGGTTTRHCFYGL QPD
 SEYKISVYTKLQEI EGPSVSIMEKTQSLPTRPPTFPPTIPPAKEVCKAAKADLVFMDGWSISIGDENFNK
 IISFLYSTVGALNKIGTDGTQVAMVQFTDDPRTEFKLNAYKTETLLDAIKHISYKGGNTKTGKAIKYVR
 DTLFTAESGTRRGIPKVI VVITDGRSQDDVNKISREMQLDGYSIFAIGVADADYSELVSI GSKPSARHVF
 FVDDFDAFKKIEDELITFCETASATCPVVHKD GIDLAGFKMMEMFGLVEKDFSSVEGVSMEPGTFNVFP
 CYQLHKDALVSQPTRYLHPEGLPSDYTISFLFRILPDTPEPFALWEILNKNSDPLVGVILDNGGKLT TY
 FNYDQSGDFQTVTFEGPEIRKIFYGSFHKLHIVVSETLVKVVIDCKQVGEKAMNASANITSDGVEVLGKM
 VRSRPGGNSAPFQLQMFDIVCSTSWANTDKCCELPGLRDESCPDLP HSCSCSE TNEVALGPAGPPGGP
 GLRGPKGQGEPPGKPDGPRGEI GLPGPQGGPQGP SGLSIQGMGMPGEKGEKGD TGLPGPQGI PGG
 VGSPPRGDGSPPQRGLPGKDGSSGPPGPPGPIGIPGTGVPGITGSMGPQ GALGPPGVPAKGERGERGDL
 QSQAMVRSVARQVCEQLIQSHMARYT AILNQIPSHSSSIRTVQGGPGEPRGSPGAPGEQGGPPTGFP
 GNAGVPGTPGERGLTG IKGEGNPGVGTQGPRPPG PAGPSGESRPGSPGPPGSPGPRGPPGHLGVPGPQ
 GPSGQPGYCDPSSCSAYGVRAPHPDQPEFTPVQDELEAMELWGPV

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

ACCN:	NM_021110
ORF Size:	5388 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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:	<ol style="list-style-type: none"> 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_021110.4
RefSeq Size:	6463 bp
RefSeq ORF:	5391 bp
Locus ID:	7373
UniProt ID:	Q05707
Cytogenetics:	8q24.12
Protein Families:	Transmembrane
Gene Summary:	This gene encodes the alpha chain of type XIV collagen, a member of the FACIT (fibril-associated collagens with interrupted triple helices) collagen family. Type XIV collagen interacts with the fibril surface and is involved in the regulation of fibrillogenesis. [provided by RefSeq, Jan 2013]