

Product datasheet for **RG220535**

COL23A1 (NM_173465) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL23A1 (NM_173465) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COL23A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220535 representing NM_173465
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCCAGCGAGCGCCGGTGGCGCGCGACGCGGGAAGGGCAATGCGCGGGCGCGCGCGCG
 GAGGGCGCTCGGGCAGCAGCGCCGGTCCCGGGCGGTGAGCGCGCTGTGCCTGCTGCTCTCCGTGGGCTC
 GGCGGCTGCCTGCTGCTGCTGGGTGTCCAGCGCGCCGCTGCAGGGCCGGGTGGCGGCTCGAGGAG
 GAGCGGGAGTGTGCGGCGCGGGGCCGCCAGGCGCCCTGGACGCTGGGCGAGCCGCACCTGGAGC
 GCCTGCTCGGGAGAAGTTGGACGGACTAGCGAAGATCCGGACTGCTCGGGAAGCTCCATCCGAATGTGT
 CTGCCCCCAGGGCCCCCTGGACGGCGCGCAAGCCTGGGAGAAGAGGCGACCCTGGTCTCCAGGGCAA
 TCAGGACGAGATGGTACCCGGGACCCCTGGGTTTGGATGGCAAGCCGGACTTCCAGGCCCGAAAGGGG
 AAAAGGGTGCACCAGGAGACTTTGGCCCCGGGGAGACCAAGGACAAGATGGAGCTGCTGGGCTCCGGG
 GCCCCTGGACCTCCTGGGGCCCGGGCCCTCCTGGCGACTGGGAAAGATGGCCCCAGGGGAGCACAA
 GGCCAGCGGGCCCAAAGGAGAGCCCGGACAAGACGGCGAGATGGGCCAAAGGACCCCAAGGGCCCA
 AGGGTGAGCCTGGAGTACCTGGAAGAAGGGCGACGATGGGACACCAAGCCAGCCTGGACCACAGGGCC
 CAAGGGCGAGCCAGGGAGCATGGGGCTCGGGGAGAGAACGGTGTGGACGGTGGCCAGGACCGAAGGGG
 GAGCCTGGCCACCGAGGCACGGATGGAGCTGCAGGGCCCCGGGTGCCCCAGGCTCAAGGGCGAGCAGG
 GAGACACAGTGGTGTGACTATGATGGCAGGATCTTGGATGCCCTCAAGGGGCTCCCGGACCACAGGG
 GCCCCAGGGCCACCAGGGATCCCTGGAGCCAAGGGCGAGCTTGGATTGCCCGGTGCCCCAGGAATCGAT
 GGAGAGAAGGGCCCAAAGGACAGAAAGGAGACCCAGGAGAGCCTGGGCCAGCAGGACTCAAAGGGGAAG
 CAGGCGAGATGGCTTGTCCGGCTCCCGGGCGCTGACGGCCTCAAGGGGAGAAAGGGGAGTCCGGCTC
 TGACAGCCTACAGGAGAGCCTGGCTCAGCTCATAGTGGAGCCAGGGCCCTGGCCCCCTGGCCCCCA
 GGCCCGATGGGCTCCAGGGAATCCAGGGTCCCAAGGGCTTGGATGGAGCAAAGGGAGAGAAGGGTGCCT
 CGGGTGAGAGAGGCCCCAGCGCCTGCCTGGGCCAGTTGGCCACCGGGCCTTATTGGGCTGCCAGGAAC
 CAAAGGAGAGAAGGGCAGACCCGGGAGCCAGGACTAGATGGTTTCCCTGGACCCGAGGAGAGAAAAGGT
 GATCGGAGCGAGCGTGGAGAGAAGGGAGAACGAGGGGTCCCCGGCGGAAAGGAGTGAAGGGCCAGAAGG
 GCGAGCCGGGACCACCAGGCCTGGACCAGCCGTGTCCCGTGGGCCCGACGGGCTGCCTGTGCCTGGCTG
 CTGGCATAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220535 representing NM_173465
 Red=Cloning site Green=Tags(s)

MGPGERAGGGDAGKNAAGGGGGRSATTAGSRAVSALCLLLSVGSAAACLLLVQAAALQGRVAALEE
 ERELLRRAGPPGALDAWAEPHLERLLREKLDGLAKIRTAREAPSECVCPPGPPGRRGKPGRRGDPGPPGQ
 SGRDGYGPLGLDGKPLPGPKGEKAGPDEFGRGDQGDGAAGPPGPPGPPGARPPGDTGKDGPRAQ
 GPAGPKGEPQDQEMGPKGPPGPKGEPVPGKKDDGTPSQPPGPKGEPGSMGPRGENVDGAPGPKG
 EPHRGTDGAAGPRGAPGLKGEQDQTVVVDYDGRILDALKGPPGPPGPPGPPGIPGAKGELGLPGAPGID
 GEKGPKEKQKGDPEPAPGLKGEAGEMGLSGLPGADGLKGEKESASDSLQESLAQLIVEPMPGPPGPP
 GPMGLQGIQGPGLDGAKEKASGERGPSGLPGVPPGLIPLPGTKGEKGRPEGLDGFPPRGEK
 DRSERGEKGERGVPRKGVKQKGEPPGLDQPCVPGDGLPVPGCWHK

TRTRPLE - GFP Tag - V

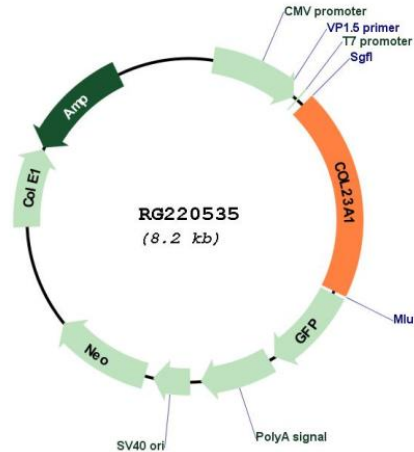
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN:	NM_173465
ORF Size:	1620 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_173465.4](#)

RefSeq Size: 3067 bp

RefSeq ORF: 1623 bp

Locus ID: 91522

UniProt ID: [Q86Y22](#)

Cytogenetics: 5q35.3

Gene Summary: COL23A1 is a member of the transmembrane collagens, a subfamily of the nonfibrillar collagens that contain a single pass hydrophobic transmembrane domain (Banyard et al., 2003 [PubMed 12644459]).[supplied by OMIM, Mar 2008]