

Product datasheet for **RG204010**

COL9A3 (NM_001853) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL9A3 (NM_001853) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COL9A3
Synonyms:	DJ885L7.4.1; EDM3; IDD; MED
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG204010 representing NM_001853
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGGGCGCGCGCTGCGCCCCGCTCCTGCTCCTGCTCCTGCTCGGGGAGCTTCTGGCGGCCGCCG
 GGGCGCAGAGAGTGGGACTCCCCGGCCCCCGGCCCGCCAGGGCGCGCCGGGAAGCCCGGCCAGGACGG
 CATTGACGGAGAAGCTGGTCCTCCAGGTCTGCCTGGGCCCCCGGGACCAAGGGGGCCCCAGGAAAGCCG
 GGGAAACCAGGAGAGGCTGGGCTGCCGGGACTGCCGGGTGTGGATGGTCTGACTGGACGAGATGGACCCC
 CTGGACCCAAGGGTGCCCTGGGGAACGGGAAGTCTGGGACCCCGGGGCGCCCGGGCTGGGGGGCAA
 AGGCCTCCCTGGACCCCGGAGAGGCAGGAGTGAGCGGCCCGCCAGGTGGGATCGGCCTCCGCGGCCCC
 CCGGGACCTTCTGGACTCCCGGCCTCCTGGTCCCCAGGACCTCCCGACCCCTGGACACCCAGGAG
 TCCTCCCTGAAGGCGCTACTGACCTTCAGTGCCCAAGTATCTGCCCGCCAGGTCCCCAGGGCCCCCTGG
 AATGCCAGGGTTCAAGGGACCCACTGGCTACAAAGGCGAGCAGGGGGAAGTCGGCAAGGACGGCGAGAAG
 GGTGACCTGGCCCCCTGGGCCCGCGGCCTCCCGGGCAGCGTGGGGCTGCAGGGCCCCCGGGGATTAC
 GAGGACTGCCAGGGCACTCGGGCCCCCTGGGGACCGGGTCCCATTGGGTTCCGAGGGCCGCTGGGAT
 CCCAGGAGCGCTGGGAAAGCGGGTGACCGAGGCGAGAGGGGCCAGAAGGGTTCGCGGCCCAAGGGT
 GACCTCGGCAGACCTGGTCCCAAGGGAACCCCGGAGTGGCCGGGCCAAGCGGAGAGCCGGGCATGCCGG
 GCAAGGACGGCCAGAATGGCGTGCCAGGACTCGATGGCCAGAAGGGAGAGGCTGGTCGCAACGGTGCTCC
 GGGAGAGAAGGGCCCCAACGGGCTGCCGGGCTCCTGGACGAGCGGGGTCCAAAGGCGAGAAGGGAGAA
 CGGGGCAGAGCTGGGGAGCTGGGTGAGGCCGGGCCCTCTGGAGAGCCAGGCGTCCCTGGAGATGCTGGCA
 TGCCTGGGGAGCGCGGTGAGGCTGGCCACCGGGGCTCAGCGGGGGCCCTCGGCCCAAGGCCCTCCCGG
 AGCCCCCTGGTGTCCGAGGCTTCCAGGGCCAGAAGGGCAGCATGGGAGACCCCGGCCTTCCAGGCCCCAG
 GGCTCCGAGGTGACGTGGGCGACCGGGTCCGGGAGGTGCCGCAGGCCCTAAGGAGACCAGGGTATTG
 CAGGTTCCGACGGTCTTCTGGGATAAAGGAGAACTGGGTCCCAGCGGCCTGGTCGGACCCAAAGGAGA
 GTCTGGCAGTCGAGGGGAGCTGGGCCCCAAAGGCACCCAGGGTCCCAACGGCACCCAGCGGTGTTCAAGGT
 GTCCCCGGGCCCCCGGTCTCTGGGCTGCAGGGCGTCCCGGTGTTCTTGGCATCACGGGGAAGCCGG
 GAGTTCGGGGGAAGGAGGCCAGCGAGCAGCGCATCAGGGAGCTGTGTGGGGGATGATCAGCGAACAAT
 TGCACAGTTAGCCGCGCACCTAAGGAAGCCTTTGGCACCCGGGTCCATTGGTCGGCCCGGTCCAGCTGGC
 CCCCTGGGCCCCAGGACCCCAAGGCTCCATTGGTCACCTGGCGCTCAGGACCCCCCGGATACCGCG
 GTCCCACTGGGGAGCTGGGAGACCCGGGCCAGAGGAAACCAGGGTGACAGAGGAGACAAAGGCGCGGC
 AGGAGCAGGGCTGGACGGGCTGAAGGAGACCAGGGGCCCAAGGACCCCAAGGCGTGCCCGGCACCCAGC
 AAGGACGGCCAGGACGGTGCTCCCGGCGAGCCTGGGCCTCCCGGAGATCTGGGCTTCCAGGTGCCATTG
 GGGCCAGGGGACACCGGGGATCTGCGACACCTCAGCCTGCCAAGGAGCCGTGTTAGGAGGGTTCGGGA
 GAAATCAGGCTCTCGAAGCTCA

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG204010 representing NM_001853
 Red=Cloning site Green=Tags(s)

MAGPRACAPLLLLLLGELLAAAGAQRVGLGPPGPPGPPGKPGQDGDGEAGPPGLGPPGPKGAPGKP
 GKPGEAGLPGLPGVDGLTGRDGPPGPKGAPGERGSLGPPGPPGLGGKGLGPPGEAGVSGPPGGIGLRGP
 PGPSGLPGLGPPGPPGPPGHPGLPEGATDLQCPSPGPPGPPGMPGFKGPTGYKGEQGEVVKDGEK
 GDPGPPGAGLPGSVGLQGPRGLRGLPGPLGPPGDRGPIGFRGPPGIPGAPGKAGDRGERGPEGFRGPKG
 DLGRPGKGTGPGVAGPSGEPGMPGKDGQNGVPLDQKGEAGRNAGPEKGPNGLPGLPGRAGSKGEKGE
 RGRAGELGEAGPSGEPGVPDAGMPGERGEAGHRGSAGALGPQGPAGVVRGFQGGKSGMDPGLPGPQ
 GLRGDVGDRGPGGAAGPKGDQGIAGSDGLPGDKGELGPSGLVGPKEGSGSRGELGPKGTQGPNGTSGVQG
 VPGPPGLGLQGVPVGPITGKPGVPGKEASEQRIRELCGGMISEQIAQLAAHLRKPLAPGSIGRPGAP
 PPGPPGPPGSIHPPGARGPPGYRGPTGELGDPGPRGNQDGRDKGAAGAGLDGPEGDQGPQGPQVPGTS
 KDGQDGAPGEPGPPGDPGLPGAIGAQTGPGICDTACQGAVALGGVGEKSGSRSS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001853

ORF Size: 2052 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001853.2](#), [NP_001844.2](#)

RefSeq Size: 2511 bp

RefSeq ORF: 2055 bp

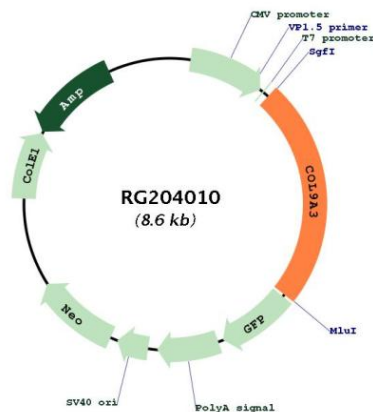
Locus ID: 1299

UniProt ID: [Q14050](#)

Cytogenetics: 20q13.33

Gene Summary: This gene encodes one of the three alpha chains of type IX collagen, the major collagen component of hyaline cartilage. Type IX collagen, a heterotrimeric molecule, is usually found in tissues containing type II collagen, a fibrillar collagen. Mutations in this gene are associated with multiple epiphyseal dysplasia type 3. [provided by RefSeq, Jan 2010]

Product images:



Circular map for RG204010