

## Product datasheet for **RG223776**

### COL9A2 (NM\_001852) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COL9A2 (NM_001852) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COL9A2
Synonyms:	DJ39G22.4; EDM2; MED; STL5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG223776 representing NM\_001852  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGCGCTACGGCCTCCCCCGCAGCCTCCTTGTCTCCTCCAGGTGGTAGTGCTCGCTCTGGCGC  
 AGATTAGAGGTCCACCGGAGAGCGGGCCCCCGGGTCCCCCGGACCCCGGGAGTGCCTGGATCCGA  
 CGGCATCGACGGTGACAATGGGCCCCCTGGAAAAGCTGGCCCTCCGGGACCCAAGGGCGAGCCTGGCAAA  
 GCTGGGCCAGATGGGCCAGACGGGAAGCCCGGGATTGATGGTTTAACTGGAGCCAAGGGGGAGCCTGGCC  
 CCATGGGGATCCCTGGAGTCAAGGGCCAGCCCGGGCTTCTGGTCTCCTGGCCTCCGGGCCCTGGTTT  
 TGCTGGACCTCCTGGCCTCCTGGACCTGTTGGCCTCCCTGGTGAGATTGGAATCCGAGGCCCAAGGGG  
 GACCCTGGACCAGATGGACCATCGGGGCCCCAGGACCCCTGGGAACTGGTCCGCCGGGAACCATCC  
 AGGGTCTGGAAGGCAGTGC GGATTTCTGTGTCCAACCAACTGTCCACCCGGAATGAAAGTCCCCAGG  
 GCTGCAGGGAGTGAAGGGGCATCGGGGCAAACGCGGGATTCTGGGTGATCCTGGCCACCAGGGGAAGCCG  
 GGTCCAAAGGGAGATGTGGGTGCCTCTGGAGAGCAAGGCATCCCTGGACCACCGGGTCCCGAGGGCATCA  
 GGGGCTACCCAGGCATGGCAGGGCCCAAGGGAGAGACGGGCCCTCATGGATATAAAGGCATGGTGGGCGC  
 TATCGGTGCCACTGGGCCACCGGGTGAAGGTCCTAGGGGACCGCCAGGCCGAGCTGGGGAGAAGGGT  
 GACGAGGGCAGCCAGGTATTCGTGGACCCAGGGGATCACAGGCCCAAAGGAGCAACGGGCCCCCCAG  
 GCATCAACGGCAAGGATGGGACCCAGGCACGCCTGGCATGAAGGGCAGTGCAGGACAGGCGGGACAGCC  
 CGGAAGTCCAGGCCACCAGGGCTAGCGGGTGTGCCAGGCCAGCCTGGGACAAAAGGAGGGCCTGGAGAC  
 CAGGGTGAAGCCGGGCCCGCAGGGCCTTCTGGATTCTCTGGTCCCCTGGGAAAGAGGGAGAGCCAGGGC  
 CTCGAGGAGAAAATTGGTCCCAGGGCATCATGGGACAGAAGGGTGACCAAGGCGAGAGGGTCCAGTGGG  
 GCAACCAGGCCCTCAGGGAAGGCAGGGCCCTAAGGGGGAGCAGGGCCCCCGGAATTCAGGGCCCCAA  
 GGCTTGCCAGGCGTCAAAGGAGACAAGGGCTCCCCAGGGAAGACCGGGCCCCGCGCAAAGTGGGTGACC  
 CAGGGGTGGCCGGCTCCCCGGAGAGAAAGGCGAGAAGGGCGAGTCCGGCGAGCCGGGGCCCAAGGGACA  
 GCAAGGAGTACGTGGAGAACCCGGCTACCCTGGCCCCAGCGGGGATGCGGGCGCCCCAGGGGTTCAAGGGC  
 TACCCTGGTCCCCCGGCCCTCGAGGACTGGCCGGGAACCGAGGCGTGCCAGGACAGCCGGGAGACAGG  
 GCGTGGAGGGCCGGGATGCCACTGACCAGCACATCGTGGATGTGGCGTGAAGATGCTGCAAGGCAACT  
 GGCAGAGGTGCGCGTGAAGTGC AAGCGGGAAGCCCTGGGTGCGGTGGGCATGATGGTCTCCAGGACCT  
 CCTGGGCCCTGGGTACCCAGGCAAGCAGGGCCCCATGGGCACCTGGCCCTCGGGGCTTCTGGCA  
 TCGTGGGAGCCGTGGGTGAGATCGGCAACACGGGGCCCAAGGGAAAACGTGGAGAGAAGGGTGTCCAGG  
 AGAAGTGGGACGGGGGCACCCCGGGATGCCTGGGCCCCAGGGATCCCAGGACTCCCTGGCCGGCCTGGC  
 CAGGCAATCAACGGCAAGGATGGAGATCGAGGGTCCCCAGGGGCTCCAGGAGAGGCAGGTGCACCTGGCC  
 TGCCAGGCCCGTGGGGCTGCCGGGCTTCTGTGAACCTGCCGCTGCCTTGGAGCTTCGGCTATGCCTC  
 TGCCCGCCTTACAGAGCCTGGATCCATCAAGGGGCT

**ACGCGT**ACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG223776 representing NM\_001852  
 Red=Cloning site Green=Tags(s)

MAAATASPRSLLVLLQVVVLALAIQIRGPPGERGPPGPPGPPGVPVGSIDGIDGNDGPPGKAGPPGPKGEPGK  
 AGPDGPDGKPGIDGLTGAKGEPGPMGIPGVKQPLGPPGLPGPGFAGPPGPPVGLPGEIGIRGPKG  
 DPGPDGSPGPPGPKGRPGTIQGLEGSADFLCPTNCPGMMKGPPLQGVKGHACKRGILGDPGHQGPK  
 GPKGDV GASGEQIGIPGPPGQGI RGYPGMAGPKGETGPHGYKGMVGAIGATGPPGEEGPRGPPGRAGEKG  
 DEGSPGIRGPQGITGPKGATGPPGINGKDGTPGTPGMKGSAGAQGQSPGHQGLAGVPGQPGTKGGPGD  
 QGEPGPQGLPGFSGPPGKEGEPGRGEIGPQGIMGQKGDQGERGPVGPQGPQGRQPKGEQPPGIPGPQ  
 GLPGVKGDKGS PGKTGPRKVGDPGVAGLPGEKGEKESGEPGPKGQQGVRGEPGYGPSGDAGAPVQG  
 YPGPPGRGLAGNRGVGPQGRQVGEGRDADQHIVDVALKMLQEQLAEVAVSAKREALGAVGMMGPPGP  
 PGPPGYPKQGP HGPGRVPGIVGAVQIGNTGPKGKRGEKGDPEVGRGHPGMPGPPGIPGLPGRPG  
 QAINGKDGDRSGPAPGEAGRPLPGVGLPGFCEPAACL GASAYASARL TEPGSIKGP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001852

**ORF Size:** 2067 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\\_001852.4](#)

**RefSeq Size:** 2831 bp

**RefSeq ORF:** 2070 bp

**Locus ID:** 1298

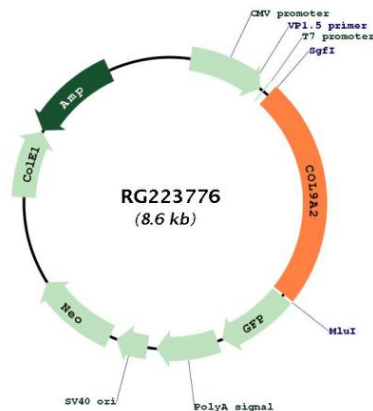
**UniProt ID:** [Q14055](#)

**Cytogenetics:** 1p34.2

**Protein Families:** Druggable Genome

**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. This chain is unusual in that, unlike the other two type IX alpha chains, it contains a covalently attached glycosaminoglycan side chain. Mutations in this gene are associated with multiple epiphyseal dysplasia. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG223776