

Product datasheet for **RG213335**

COL5A2 (NM_000393) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL5A2 (NM_000393) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COL5A2
Synonyms:	EDSC; EDSC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213335 representing NM_000393 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGCAAACCTGGCGGAAGCAAGACCTCTCCTCATTCTTATTGTTTTATTAGGGCAATTTGTCTCAA
TAAAGCCAGGAAGAAGACGAGGATGAAGGATATGGTGAAGAAATAGCCTGCACTCAGAATGGCCAGAT
GTAATAACAGGGACATTTGGAAACCTGCCCTTGTGAGATCTGTGTCTGTGACAATGGAGCCATTCTC
TGTGACAAGATAGAATGCCAGGATGTGCTGGACTGTGCCGACCCTGTAAACGCCCTGGGAATGCTGTC
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ACCAGGATTAGTGCTGTGTAACAGGCATACGTGGTCCGAGGACCGGACAGGACCTCCAGGATCACAG
GGACCAAGAGGAGAGCGAGGGCCAAAAGGAAGACCTGGCCCTCGTGGACCTCAGGGAATTGATGGAGAAC
CAGGTGTTCTGGTCAACCTGGTCTCCAGGACCTCCTGGACATCCGTCCCACCCAGGACCCGATGGCTT
GAGCAGGCCGTTTTAGCTCAAAATGGCTGGGTTGGATGAAAAATCTGGACTTGGGAGTCAAGTAGGACTA
ATGCCTGGCTCTGTGGTCTGTGGCCAAAGGGACACAGGGTTTACAAGGACAGCAAGGTGGTGCAG
GACCTACAGGACCTCCTGGTGAACCTGGTATCCTGGACCAATGGGTCGATTGGTTCACGTGGACCAGA
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GCAGGATCTCCGGGAGCTCGTGGATTTCTGGGCTCCTGGTCTCCAGGTCTGAAGGTCACCCAGGAC
ACAAAGGTCTTGAAGGCCCTAAAGGTGAAGTTGGAGCACCTGGTTCCAAGGTGAAGCTGGCCCCACTGG
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CAGGCTCTTGGTTTTCCAGGAAATCCTGGAATGAAGGGAGAAGCAGGTCTACAGGGGCGGAGGCC
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GCAATAGAACTGATGGTACTCCTGGTCCAAAGGCCAACGGGCTCTCCGGTACCTCTGGTCTCCTG
GCTCAGCAGGGCCTCCTGGATCTCCAGGACCTCAGGTAGCACTGGTCTCAGGGAATTCGAGGCCAAC
GGTGATCCAGGAGTCCAGTTTCAAAGGAGAAGCTGGCCAAAAGGGGAACCGGCCACATGGTATT



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CAGGGTCCGATAGGCCACCCGGTGAAGAAGGCAAAAGAGGTCCAGAGGTGACCCAGGAACAGTTGGTCTCCAGGGCCAGTGGGAGAAAGGGGTGCTCCTGGCAATCGTGGTTTTCCAGGCTCTGATGGTTTACCTGGCCAAAGGGTGTCAAGGAGAACGGGGTCTGTAGGTTTTCAGGACCCAAAGGAAGCCAGGGGGATCCAGGAGTCCAGGGGAACCTGGGCTTCCAGGTGCTCGGGGTTTGACAGGAAATCCTGGTGTTCAGGTCCTGAAGGAAACTTGGACCTTGGGTGCGCCAGGGGAAGATGGCCGTCCAGGTCTCCAGGCTCCATAGGAATCAGAGGGCAGCCCGGAGCATGGGCCTTCCAGGCCCAAGGTAGCAGTGGTGACCCTGGGAAACCTGGAAGAGCAGGAAATGCTGGAGTTCCTGGGCAGAGGGGAGCTCCTGGAAAAGATGGTGAAGTTGGTCTTCTGTCTGTGGGCCCGCCGGTCTAGCTGGTGAAGAGGAGAAACAAGGACCTCCAGGCCACAGGTTTTCAAGGGCTTCTGGTCTCCAGGCCCTCCTGGAGAAGGTGAAAAACAGGTGATCAAGGTGTTCTGGAGATCCCGGAGCAGTTGGCCGTTAGGACCTAGAGGAGAACGAGGAAATCCTGGGAAAAGAGGAGAACCTGGGTAAGTGGACTCCCTGGTGAAGGGAATGGCTGGAGGACATGGTCTGATGGCCAAAAGGCAGTCCAGGTCCATCTGGGACCCCTGGAGATACAGGCCACCAGGTCTTCAAGGTATGCCGGGAGAAAGGAATTGCAAGAACTCTGGCCCAAGGGTACAGAGGTGGCATAGGAGAAAAAGGTGCTGAAGGCACAGCTGGAAATGATGGTGAAGAGGTCTTCCAGGTCTTTGGGCCCTCCAGGTCCGGCAGGTCTACTGGAGAAAAGGGTGAACCTGGTCTCGAGGTTTAGTTGGCCCTCCTGGCTCCCGGGCAATCCTGTTCTCGAGGTGAAAATGGGCCAACTGGAGCTGTTGGTTTTGCCGGACCCAGGGTCTGACGGACAGCTGGAGTAAAAGGTGAACCTGGAGAGCCAGGACAGAAGGGAGATGCTGGTTCCTGGACCACAAGGTTTAGCAGGATCCCTGGCCCTCATGGTCTAATGGTGTTCCTGGACTAAAAGGTGGTCCGAGGAACCAAGGTCCGCCTGGTACAGGATTTCTGGTTCTGCGGGCAGAGTTGGACCTCCAGGCCCTGCTGGAGCTCCAGGACCTGCGGGACCCCTAGGGAAACCCGGGAAGGAGGGACCTCCAGGTCTTCGTGGGGACCTGGCTCTCATGGCGTGTGGGAGATCGAGGACCAGCTGGCCCCCTGGTGGCCAGGAGACAAAGGGGACCCAGGAGAAGATGGCAACCTGGTCCAGATGGCCCCCTGGTCCAGCTGGAACGACCGGGCAGAGAGGAATTGTTGGCATGCCTGGGCAACCTGGAGAGAGGGCATGCCCGCCCTACCAGGCCAGCGGGAACACCAGGAAAAGTAGGACCACTGGTGAACAGGAGATAAAGGTCCACCTGGACCTGTGGGGCCCCAGGCTCCAATGGTCTGTAGGGGAACCTGGACCAGAAGGTCCAGCTGGCAATGATGGTACCCAGGACGGGATGGTGTGTTGGAGAACGTGGTATCGTGGAGACCCTGGCCTGCAGTCTGCCAGGCTCTCAGGGTGCCCTGGAACCTGGCCCTGTGGGTGCTCCAGGAGATGCAGGACAAAGAGGAGATCCGGTTCTCGGGTCTATAGGACCCTGGTCCGAGCTGGGAAACGTGGATTAAGTGGACCCCAAGGACCTCGTGGTGAACAAAGGTGATCATGGAGACCGAGGCGACAGAGGTGAGAGGGCCACAGAGGCTTTACTGGTCTTCCAGGGTCTTCTGGCCCTCCTGGTCCAAATGGTGAACAAGGAAGTGTGGAATCCCTGGACCATTTGGCCAAAGAGGTCTCCAGGCCAGTTGGTCTTCCAGGTAAAGAAGGAAACCTGGGCCACTTGGGCCAATTGGACCTCCAGGTGTACGAGGCAGTGTAGGAGAAGCAGGACCTGAGGGCCCTCCTGGTGAAGCTGGCCACCTCCGGTCCCCCTGGCCACCTTACAGCTGCTCTTGGGGATATCATGGGCACTATGATGAAAGCATGCCAGATCCACTTCTGAGTTTACTGAAGATCAGGCGGCTCCTGATGACAAAAACAAACCGACCCAGGGGTTTCATGCTACCCTGAAGTCACTCAGTAGTCAGATTGAAACCATGCGCAGCCCGATGGCTCGAAAAAGCACCCAGCCCGCAGTGTGATGACCTAAAGCTTTGCCATTCGCAAGCAGAGTGGTGAATACTGGATTGATCCTAACCAAGGATCTGTTGAAGATGCAATCAAAGTTTACTGCAACATGAAACAGGAGAAACATGTATTTAGCAAAACCCATCCAGTGTACCAGTAAAACCTGGTGGCCAGTAAATCTCCTGACAATAAACCTGTTGGTATGGTCTTGATATGAACAGAGGGTCTCAGTTCGTTATGGAGACCAACAATCACCTAATACAGCCATTACTCAGATGACTTTTTTGGCCCTTTTATCAAAAGAAGCCCTCCAGAACATCACTTACATCTGTAAAAACAGTGTAGGATACATGGACGATCAAGCTAAGAACCTCAAAAAAGCTGTGGTTCTCAAAGGGGCAAAATGACTTAGATATCAAAGCAGAGGGAAATATTAGATTCCGGTATATCGTTCTTCAAGACACTTGTCTAAGCGGAATGGAATGTGGCAAGACTGTCTTTGAATATAGAACACAGAATGTGGCACGCTTGCCCATCATAGATCTTGTCTGTGGATGTTGGCGGCACAGACCAGGAATTCGGCGTTGAAATTGGCCAGTTTGTGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213335 representing NM_000393
 Red=Cloning site Green=Tags(s)

MMANWAEARPLLILIVLLGQFVSIKAQEEDDEGYGEEIACIQNGQMYLNNDIWKPAQCICVCDNGAIL
 CDKIECQDVLDCADPVTPPECCPVCSTPQGGNTNFGRGRKQKGEPLVPVVTGIRGRPGPAGPPGSQ
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 PGAVGPLGPRGERGNPGERGEPITGLPGEKMGAGGHGPDGPKGSPGSGTPTGDTGPPGLQGMPGERGIA
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 PTGAVGFAGPQPDGQPVKGEPEGPQKGDAGSPGQGLAGSPGPHGPNVPLKGGRTQGGPPGATGF
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 GPPGAGTTGQRGIVGMPGQRGERGMPGLPGPAGTPGKVGPTGATGDKGPPGVPVPPGNGVPEGPEP
 PAGNDGTPGRDGAVERGDRGDPGAPLPGSQGAPGTPGVPVAGDAGQGDGSRGPIGPPGRAGKRL
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 KNKTDPGVHATLKSLSQIETMRSPDGSKKHPARTCDDLKCHSAKQSGEYWIWIDPNQGSVEDAIKVVYCNM
 ETGETCISANPSSVPRKTWWASKSPDNKPVWYGLDMNRGSQFAYGDHQSPNTAITQMTFLRLLSKEASQN
 ITYICKNSVGYMDDQAKNLKAVLVKANDLDIKAEGNIRFRYIVLQDTCSTRKNGNVGKTVFEYRTQNV
 RLPIIDLAPVDVGGTDQEFVVEIGPVCFV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

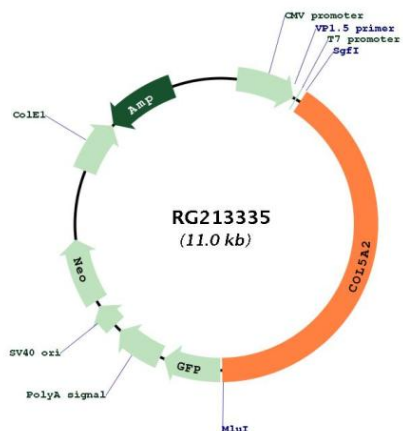


ACCN: NM_000393

ORF Size: 4497 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:	<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_000393.3 , NP_000384.2
RefSeq Size:	6930 bp
RefSeq ORF:	4500 bp
Locus ID:	1290
UniProt ID:	P05997
Cytogenetics:	2q32.2
Domains:	COLFI, VWC, Collagen
Protein Families:	Druggable Genome
Protein Pathways:	ECM-receptor interaction, Focal adhesion
Gene Summary:	This gene encodes an alpha chain for one of the low abundance fibrillar collagens. Fibrillar collagen molecules are trimers that can be composed of one or more types of alpha chains. Type V collagen is found in tissues containing type I collagen and appears to regulate the assembly of heterotypic fibers composed of both type I and type V collagen. This gene product is closely related to type XI collagen and it is possible that the collagen chains of types V and XI constitute a single collagen type with tissue-specific chain combinations. Mutations in this gene are associated with Ehlers-Danlos syndrome, types I and II. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG213335