

Product datasheet for **RG216003**

COL8A2 (NM_005202) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL8A2 (NM_005202) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	COL8A2
Synonyms:	FECD; FECD1; PPCD; PPCD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG216003 representing NM_005202
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGGGACTCTGACACCCCTGTCTTCGCTGCTGCTGCTACTGGTGCTGGTGCTGGGGTGTGGGC
 CGCGGGCGTCCTCTGGTGGCGGGGCCGGTGGGGCGCGGGCTATGCCCCAGTGAAGTACATCCAGCCCAT
 GCAGAAAGGACCTGTGGGACCGCCCTTCCTGTAGGGCAAAGGCCAGTACCTGGAATGCCTCTACCGCTG
 CTGCCGATGGACCTGAAGGGAGAGCCCGGCCCCCTGGGAAGCCCGGCCCTCGGGGTCCCCTGGCCCCC
 CTGGCTTCCCAGGAAAACAGGCATGGGAAAGCCAGGACTCCATGGGCAGCCTGGCCCTGCTGGCCCCC
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 GCTACCTGGACCAGGCATCTGGTGGGGCGTGCTCCAGCTGCGGCCAACGACCAGGTCTGGGTGCAGAT
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 TGCCCCACA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

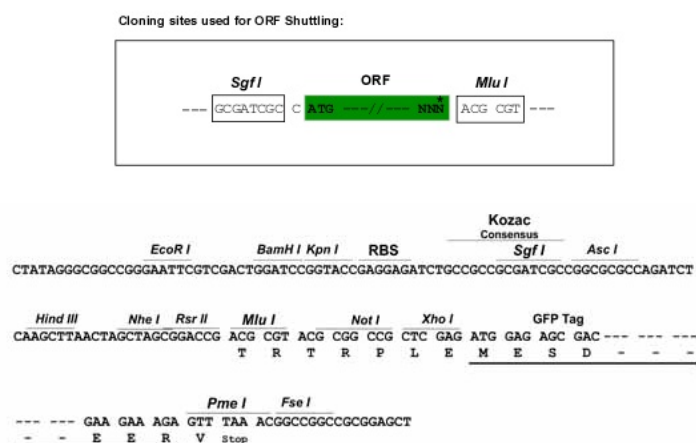
Protein Sequence: >RG216003 representing NM_005202
Red=Cloning site Green=Tags(s)

MLGLTLPLSSLLLLLLVLVLCGCPRASSGGGAGGAAGYAPVKYIQPMQKGPVGPFPFREGKGQYLEMPLPL
LPMDLKGEPPGPKGPRGPPGPPGPFPGKPGMGKPLHGQPGPAGPPGFSRMKGAGPPGLPGKVGPQGQ
GLRGEPIRGDQGLRGPPGPPGLPGPSGITIPGKPGAQGVGPPGFGQEGPQGEPPGDRGLKGDNGV
GQPLPGAPGQGGAGPPGLPGPAGLGKPLDGLPGAPDGKESGPPGVGPRGEPGAVGPKGPPGVDGV
GVPGAAGLPGPQPSGAKGEPGTRGPPGLIGPTYGYMPLPGPKGDRGPAGVPLLDRGEPGEDGEPGE
QGPQGLGGPPGLPGSAGLPGRRGPPGPKGEAGPGPPGVPGIRGDQGPSGLAGKPGVPPERGLPGAHGPP
GPTGPKGEPGFTGRPGGPGVAGALGQKGDLLPGQPLRGPSGIPGLQGPAIGPQGLPLKGEPGLPG
PPGEGRAGEPGTAGTPGPPGVGSPGITGPPGPPGPPGPPGAPGAFDEGTIAGLHLPNGGVEGAVLGKG
KPQFGLGELSAHATPAFTAVLTSFPFASGMPVKFDRTLNGHSGYNPATGIFTCPVGGVYYFAHYHVHVG
TNVWVALYKNNVPATYTYDEYKGYLDQASGGAVALQLRPNDQVWVQMPSDQANGLYSTEYIHSFSGFLL
CPT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM 005202

ORF Size: 2109 bp

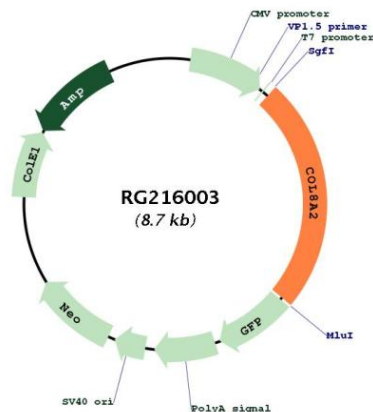
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_005202.4</u>
RefSeq Size:	4443 bp
RefSeq ORF:	2112 bp
Locus ID:	1296
UniProt ID:	<u>P25067</u>
Cytogenetics:	1p34.3
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes the alpha 2 chain of type VIII collagen. This protein is a major component of the basement membrane of the corneal endothelium and forms homo- or heterotrimers with alpha 1 (VIII) type collagens. Defects in this gene are associated with Fuchs endothelial corneal dystrophy and posterior polymorphous corneal dystrophy type 2. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2014]

Product images:



Circular map for RG216003