

Product datasheet for **SC337068**

COL8A2 (NM_001294347) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL8A2 (NM_001294347) Human Untagged Clone
Tag:	Tag Free
Symbol:	COL8A2
Synonyms:	FECD; FECD1; PPCD; PPCD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

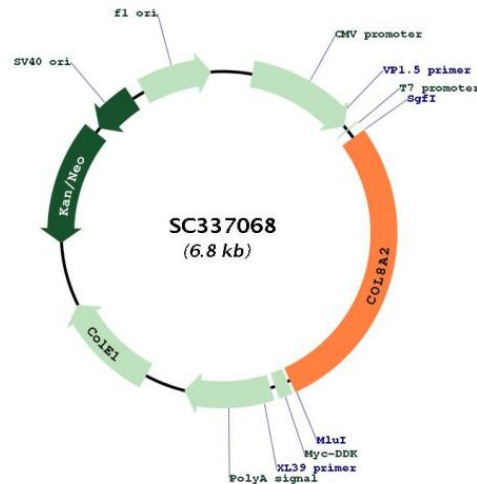


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Fully Sequenced ORF: >SC337068 representing NM_001294347.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCTCTACCGCTGCTGCCGATGGACCTGAAGGGAGAGCCCGGCCCCCTGGGAAGCCCGGCCTCGG
GGTCCCCCTGGCCCCCTGGCTTCCCAGGAAAACAGGCATGGGAAAGCCAGGACTCCATGGGCAGCCT
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GACCGGACTCTACAATGGCCACAGCGGCTACAACCCAGCCACTGGCATCTTACCTGCCCTGTGGGC
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AACGTGCCGGCCACCTATACCTACGATGAGTACAAGAAGGGCTACCTGGACCAGGCATCTGGTGGGGCC
GTGCTCCAGCTGCGGCCAACGACCAGGTCTGGGTGCAGATGCCGTCGGACCAGGCCAACGGCCTTAC
TCCACGGAGTACATCCACTCCTCTTTTCAGGATTCCTGTCTGCCCCACATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001294347

Insert Size: 1917 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001294347.1](#)

RefSeq Size: 4397 bp

RefSeq ORF: 1917 bp

Locus ID: 1296

UniProt ID: [P25067](#)

Cytogenetics: 1p34.3

Protein Families: Druggable Genome

MW: 60.7 kDa

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]

Transcript Variant: This variant (2) uses an alternate splice site in the 5' region and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1.