

## Product datasheet for **SC336591**

### Collagen IV (COL4A1) (NM\_001303110) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen IV (COL4A1) (NM_001303110) Human Untagged Clone
Tag:	Tag Free
Symbol:	Collagen IV
Synonyms:	BSVD; BSVD1; COL4A1s; PADMAL; RATOR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC336591 representing NM\_001303110.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGGGCCCCGGCTCAGCGTCTGGCTGCTGCTGCCCGCCCTTCTGCTCCACGAGGAGCACAGC
CGGGCCGCTGCGAAGGGTGGCTGTGCTGGCTCTGGCTGTGGCAAATGTGACTGCCATGGAGTGAAGGGA
CAAAGGGTGAAAGAGGCCCTCCCGGGTTACAAGGTGTCATTGGGTTTCCCTGGAATGCAAGGACCTGAG
GGCCACAGGGACCACCAGGACAAAAGGGTGATACTGGAGAACCAGGACTACCTGGAACAAAAGGGACA
AGAGGACCTCCGGGAGCATCTGGCTACCCTGGAACCCAGGACTTCCCGAATTCCTGGCCAAGACGGC
CCGCCAGGCCCCAGGTATTCCAGGATGCAATGGCACAAAGGGGAGAGAGGGCCGCTCGGGCCTCT
GGCTTGCTGGTTTCGTTGAAAATCCCGGACCACCAGGCTTACCAGGGATGAAGGGTATCCAGGTGAG
ATACTTGCCATGTGCCGGGATGCTGTTGAAAGGTGAAAGAGGATTTCCCGAATCCAGGGACTCCA
GGCCACCAGGACTGCCAGGGCTCAAGGTCCTGTTGGGCTCCAGGATTTACCGGACCACCAGGTCCC
CCAGGCCCTCCCGCCCTCCAGGTGAAAAGGGACAAATGGGCTTAAGTTTCAAGGACAAAAGGTGAC
AAGGGTGACCAAGGGGTCAAGTGGCCTCCAGGAGTACCAGGACAAGCTCAAGTTCAAGAAAAAGGAGAC
TTCCGCCACCAAGGGAGAAAAGGGCCAAAAGGTGAACCTGGATTTCAAGGGATGCCAGGGGTCCGAGAG
AAAGGTGAACCCGAAAACCAGGACCCAGAGGCAAACCCGAAAAGATGGTGACAAAGGGGAAAAAGGG
AGTCCCGGTTTTCTGGTGAACCCGGTACCCAGGACTCATAGGCCGCCAGGGCCCGAGGGAGAAAAG
GGTGAAGCAGGTCTCTGGCCACCTGGAATTGTTATAGGCACAGGACCTTTGGGAGAAAAAGGAGAG
AGGGGCTACCTGGAACCTCCGGGCCAAGAGGAGAGCCAGGCCAAAAGGTTTCCAGGACTACCAGGC
CAACCCGACCTCCAGGCCTCCCTGTACCTGGCAGGCTGGTGGCCCTGGCTTCCCTGGTGAAGAGGA
GAAAAGGTGACCGAGGATTTCTGGTACATCTCTGCCAGGACCAAGTGAAGAGATGGGCTCCCGGT
CCTCTGGTTCCCTGGGCCCTGGGCAGCCTGGCTACACAAATGGAATTGTGGAATGTCAGCCCGGA
CCTCCAGGTGACCAGGTCTCTGGAATTCCAGGGCAGCCAGGATTTATAGGCAAAATGGAGAGAAA
GGTCAAAAAGGAGAGAGTTGCCTCATCTGTGATATAGACGGATATCGGGGCCCTCCCGGCCACAGGGA
CCCCGGGAGAAATAGGTTTCCAGGGCAGCCAGGGGCCAAGGGCGACAGAGTTTGCCTGGCAGAGAT
GGTGTGACAGGAGTGCCATTGCTTTTTCAAATCCATAATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001303110

**Insert Size:** 1560 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:	<a href="#">NM_001303110.1</a>
RefSeq Size:	2601 bp
RefSeq ORF:	1560 bp
Locus ID:	1282
UniProt ID:	<a href="#">P02462</a>
Cytogenetics:	13q34
Protein Pathways:	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer
MW:	50.2 kDa
Gene Summary:	<p>This gene encodes a type IV collagen alpha protein. Type IV collagen proteins are integral components of basement membranes. This gene shares a bidirectional promoter with a paralogous gene on the opposite strand. The protein consists of an amino-terminal 7S domain, a triple-helix forming collagenous domain, and a carboxy-terminal non-collagenous domain. It functions as part of a heterotrimer and interacts with other extracellular matrix components such as perlecan, proteoglycans, and laminins. In addition, proteolytic cleavage of the non-collagenous carboxy-terminal domain results in a biologically active fragment known as arresten, which has anti-angiogenic and tumor suppressor properties. Mutations in this gene cause porencephaly, cerebrovascular disease, and renal and muscular defects. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]</p> <p>Transcript Variant: This variant (2) lacks alternate exons in the 3' region and contains an alternate 3' terminal exon, resulting in a distinct 3' coding region and 3' UTR compared to variant 1. The encoded isoform (2) has a distinct and shorter C-terminus compared to isoform 1.</p>