

## Product datasheet for **SC214473**

### Collagen IV (COL4A1) (NM\_001845) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Collagen IV (COL4A1) (NM_001845) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	COL4A1
Synonyms:	BSVD; BSVD1; COL4A1s; PADMAL; RATOR
ACCN:	NM_001845
Insert Size:	1430 bp



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**Insert Sequence:** >SC214473 3'UTR clone of NM\_001845  
 The sequence shown below is from the reference sequence of NM\_001845. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CGCTGCCAAGTCTGTATGAGAAGAACAATAATGAAGCCTGACTCAGCTAATGTCACAACATGGTGCTACT
TCTTCTTCTTTTTGTTAACAGCAACGAACCTAGAAATATATCCTGTGTACCTCACTGTCCAATATGAA
AACCGTAAAGTGCCTTATAGGAATTTGCGTAACTAACACACCCTGCTTCACTTGACCTCACTTGTGCTGAA
GGAGAAAAAGACAGCGATAAGCTTTCAATAGTGGCATAACCAATGGCACTTTTGTGAAATAAAATATC
AATATTTTCTGCAATCCAATGCACTGATGTGTGAAGTGAAGTCCATCAGAAAACCAAGGGTGTAG
GAGGTGTGGTGCCTTCCATACTGTTTGCCCATTTTCATTCTTGTATTATAATTAATTTTCTACCCCA
GAGATAAATGTTTGTATATCACTGTCTAGCTGTTTCAAAATTTAGGTCCTTGGTCTGTACAAATAA
TAGCAATGTAATAATGGTTTTTGAACCTCCAATGGAATTACAGACTCAGTAGCCATATCTTCCAACC
CCCCAGTATAAATTTCTGTCTTCTGCTATGTGTGGTACTTTGCAGCTGCTTTTGCAGAAATCACAATT
TTCTGTGGAATAAAGATGGTCCAAAAATAGTCAAAATTAATATATATATATATAGTAATTTATAT
AGATGTCAGCAATTAGGCAGATCAAGGTTTAGTTTAACTTCCACTGTTAAATAAAGCTTACATAGTTT
TCTTCTTTGAAAGACTGTGCTGTCTTAAACATAGGTTTTTAAAGACTAGGATATTGAATGTGAAACA
TCCGTTTTTCAATGTTCACTTCTAAACAAAAATATGTGTTGCCAAAACCAACCCAGGTTTCAATGAATA
TGGTGTCTATTATAGTAAACATGTACTTTGAGCTTATTGTTTTTATTCTGTATTAATATTTTTCAGGG
TTTTAAACACTAATCACAACTGAATGACTTGACTTCAAAGCAACAACCTTAAAGGCCGTCATTTTCA
TAGTATTCCTCATTCTGCATCCTGGCTTGAAAAACAGCTCTGTTGAATCACAGTATCAGTATTTTCA
CGTAAGCACATTTCGGCCATTTCCGTGGTTTTTCATGAGCTGTGTTACAGACCTCAGCAGGGCATCGC
ATGGACCGCAGGAGGGCAGATTCGGACCACTAGGCCTGAAATGACATTTCACTAAAAGTCTCCAAAACA
TTTCTAAGACTACTAAGGCCTTTTATGTAATTTCTTAAATGTGTATTTCTTAAAGATTCAAATTTGTA
ATAAACTATTTGTATAAAAAATTAAGCTTTTATTAATTTGTTGCTAGTATTGCCACAGACGCATTA
GAACTTACTGCACAAGCTGCTAATAAATTTGTAAGCTTTGCATACCTTA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_001845.6](#)

**Summary:**

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]

**Locus ID:**

1282

**MW:**

55.5