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Product datasheet for SC300009

Collagen IV (COL4A4) (NM_000092) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen IV (COL4A4) (NM_000092) Human Untagged Clone
Tag:	Tag Free
Symbol:	Collagen IV
Synonyms:	ATS2; BFH; CA44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC300009 representing NM_000092. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGGTCTCTGCACATAGTACTAATGAGGTGCTCCTTCAGATTGACCAAGTCCTTGGCCACAGGTCCC
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GGAGAAAAAGGAAATGAAGGACTCTGTGCCTGTGAGCCTGGACCCATGGGCCCCCCTGGCCCTCCAGGA

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CTTCCTGGGAGGCAGGGGAGTAAGGGAGACTTGGGGCTCCCTGGCTGGCTTGGAACAAAAGGTGACCCA
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TGTCCGCAGACCTGGAGGAGCCTCTGGATCGGGTATTCATTCCTGATGCACACAGGAGCTGGGGACCAA
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GCAGACTTGCAGTTTTCCTCTGCTCCAGCACCAGACACCTTAAAAGAAAGCCAGGCCCAACGCCAGAAA
ATCAGCCGGTGCCAGGTCTGCGTGAAGTATAGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_000092
Insert Size:	5073 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_000092.4
RefSeq Size:	10341 bp
RefSeq ORF:	5073 bp
Locus ID:	1286
UniProt ID:	P53420
Cytogenetics:	2q36.3
Protein Families:	Druggable Genome
Protein Pathways:	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer
MW:	164 kDa

Gene Summary: This gene encodes one of the six subunits of type IV collagen, the major structural component of basement membranes. This particular collagen IV subunit, however, is only found in a subset of basement membranes. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter. Mutations in this gene are associated with type II autosomal recessive Alport syndrome (hereditary glomerulonephropathy) and with familial benign hematuria (thin basement membrane disease). Two transcripts, differing only in their transcription start sites, have been identified for this gene and, as is common for collagen genes, multiple polyadenylation sites are found in the 3' UTR. [provided by RefSeq, Jul 2008]