

Product datasheet for **SC308717**

Collagen III (COL3A1) (NM_000090) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen III (COL3A1) (NM_000090) Human Untagged Clone
Tag:	Tag Free
Symbol:	Collagen III
Synonyms:	EDS4A; EDSVASC; PMGEDSV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000090, the custom clone sequence may differ by one or more nucleotides

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ATGATGAGCTTTGTGCAAAGGGGAGCTGGCTACTTCTCGCTCTGCTTCATCCCACTATTATTTTGGCAC
AACAGGAAGCTGTTGAAGGAGGATGTTCCCATCTTGGTCAGTCTATGCGGATAGAGATGTCTGGAAGCC
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TGGGAGAAATGGTGACCCTGGTATTCCAGGACAACCAGGGTCCCCTGGTCTCCTGGCCCCCTGGAATC
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CATGCCCGGAAGTCCAGGAGGACCAGGAAGTGATGGGAAACCAGGGCCTCCCGGAAGTCAAGGAGAAAGT
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 ATACATGGATCAGGCCAGTGGAAATGTAAGAAGGCCCTGAAGCTGATGGGGTCAAATGAAGGTGAATTC
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 TGACATTGGTGGTCTGATCAAGAAATTTGGTGTGGACGTTGGCCCTGTTGCTTTTTATAA

Restriction Sites: Please inquire

ACCN: NM_000090

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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 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:	<ol style="list-style-type: none"> 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_000090.2 , NP_000081.1
RefSeq Size:	5489 bp
RefSeq ORF:	4401 bp
Locus ID:	1281
UniProt ID:	P02461
Cytogenetics:	2q32.2
Domains:	COLFI, VWC, Collagen
Protein Families:	Druggable Genome
Protein Pathways:	ECM-receptor interaction, Focal adhesion
Gene Summary:	This gene encodes the pro-alpha1 chains of type III collagen, a fibrillar collagen that is found in extensible connective tissues such as skin, lung, uterus, intestine and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome types IV, and with aortic and arterial aneurysms. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalgleish, Feb 2008]