

Product datasheet for **SC309478**

Collagen IV (COL4A5) (NM_033380) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen IV (COL4A5) (NM_033380) Human Untagged Clone
Tag:	Tag Free
Symbol:	COL4A5
Synonyms:	ASLN; ATS; ATS1; CA54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309478 representing NM_033380. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-Mlul
Plasmid Map:	□
ACCN:	NM_033380
Insert Size:	5076 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:	<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_033380.2
RefSeq Size:	6541 bp
RefSeq ORF:	5076 bp
Locus ID:	1287
UniProt ID:	P29400
Cytogenetics:	Xq22.3
MW:	161.6 kDa
Gene Summary:	<p>This gene encodes one of the six subunits of type IV collagen, the major structural component of basement membranes. Mutations in this gene are associated with X-linked Alport syndrome, also known as hereditary nephritis. 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. Alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Aug 2010]</p> <p>Transcript Variant: This variant (2) encodes the longer isoform (2).</p>