

Product datasheet for **SC309480**

Collagen IV alpha 6 (COL4A6) (NM_033641) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen IV alpha 6 (COL4A6) (NM_033641) Human Untagged Clone
Tag:	Tag Free
Symbol:	COL4A6
Synonyms:	CXDELq22.3; DELXq22.3; DFNX6
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_033641, the custom clone sequence may differ by one or more nucleotides

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 CAGTTTGGGGAGTTGCCTGTGTCTGAAACGCTGAAAGCTGGGCAGCTCCCACTCGAGTC
 AGTCGCTGCCAGGTGTGTATGAAAAGCCTGTAG

Restriction Sites:	Please inquire
ACCN:	NM_033641
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:	<u>NM_033641.1</u> , <u>NP_378667.1</u>
RefSeq Size:	6689 bp
RefSeq ORF:	5073 bp
Locus ID:	1288
UniProt ID:	<u>Q14031</u>
Cytogenetics:	Xq22.3
Domains:	C4, Collagen
Protein Pathways:	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer

Gene Summary:

This gene encodes one of the six subunits of type IV collagen, the major structural component 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, alpha 5 type IV collagen, so that the gene pair shares a common promoter. Deletions in the alpha 5 gene that extend into the alpha 6 gene result in diffuse leiomyomatosis accompanying the X-linked Alport syndrome caused by the deletion in the alpha 5 gene. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2013] Transcript Variant: This variant (B) utilizes the same 5' exon as variant 3 (exon 1B) but lacks several alternate in-frame exons. The resulting protein (isoform B) is shorter compared to isoform 3. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.