

## Product datasheet for **RC240194**

### Collagen IV alpha 6 (COL4A6) (NM\_001287759) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen IV alpha 6 (COL4A6) (NM_001287759) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COL4A6
Synonyms:	CXDELq22.3; DELXq22.3; DFNX6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240194 representing NM_001287759 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC240194 representing NM\_001287759  
 Red=Cloning site Green=Tags(s)

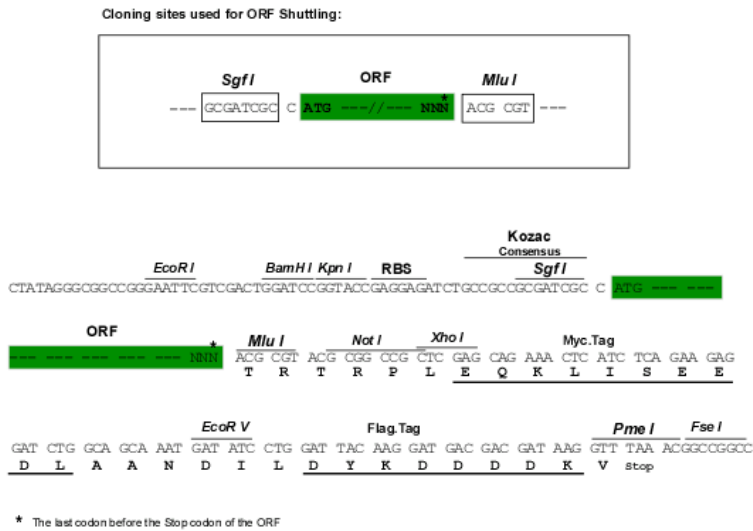
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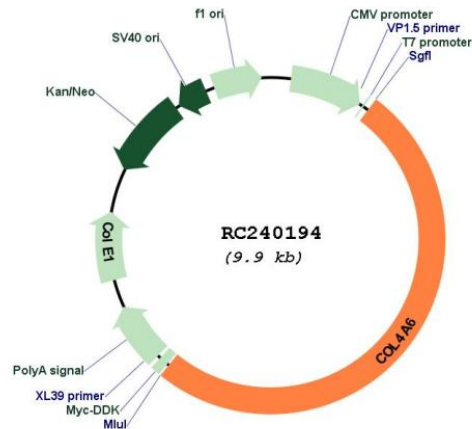
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Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001287759

**ORF Size:** 4998 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001287759.1](#), [NP\\_001274688.1](#)

**RefSeq Size:** 6651 bp

**RefSeq ORF:** 5001 bp

**Locus ID:** 1288

**Cytogenetics:** Xq22.3

**Protein Pathways:** ECM-receptor interaction, Focal adhesion, Pathways in cancer, Small cell lung cancer

**MW:** 161.8 kDa

**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]