

Product datasheet for **RC215981**

Collagen XV (COL15A1) (NM_001855) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen XV (COL15A1) (NM_001855) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Collagen XV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215981 representing NM_001855 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC215981 representing NM_001855
 Red=Cloning site Green=Tags(s)

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Chromatograms: https://cdn.origene.com/chromatograms/mk8028_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

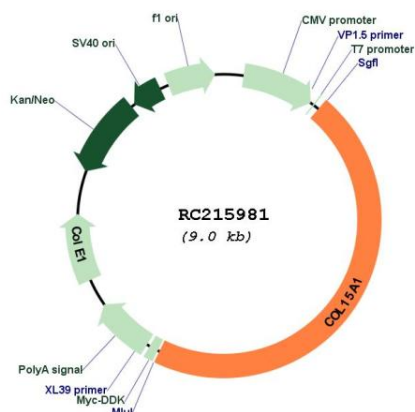


ACCN: NM_001855

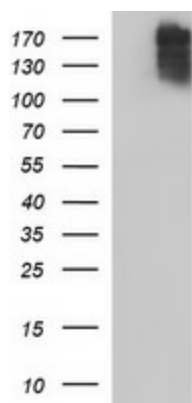
ORF Size: 4164 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001855.5
RefSeq Size:	5222 bp
RefSeq ORF:	4167 bp
Locus ID:	1306
UniProt ID:	P39059
Cytogenetics:	9q22.33
MW:	141.72 kDa
Gene Summary:	This gene encodes the alpha chain of type XV collagen, a member of the FACIT collagen family (fibril-associated collagens with interrupted helices). Type XV collagen has a wide tissue distribution but the strongest expression is localized to basement membrane zones so it may function to adhere basement membranes to underlying connective tissue stroma. The proteolytically produced C-terminal fragment of type XV collagen is restin, a potentially antiangiogenic protein that is closely related to endostatin. Mouse studies have shown that collagen XV deficiency is associated with muscle and microvessel deterioration. [provided by RefSeq, May 2013]

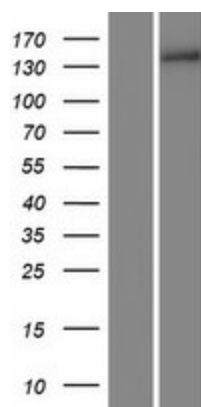
Product images:



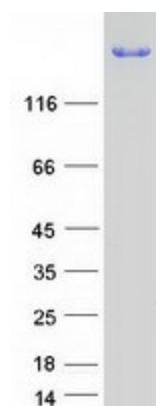
Circular map for RC215981



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY COL15A1 (Cat# RC215981, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-COL15A1 (Cat# [TA507124]). Positive lysates [LY419713] (100ug) and [LC419713] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419713]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215981 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COL15A1 protein (Cat# [TP315981]). The protein was produced from HEK293T cells transfected with COL15A1 cDNA clone (Cat# RC215981) using MegaTran 2.0 (Cat# [TT210002]).