

OriGene Technologies, Inc.

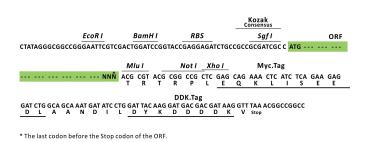
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for RC206234L1

Collagen I (COL1A1) (NM_000088) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen I (COL1A1) (NM_000088) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Collagen I
Synonyms:	CAFYD; EDSARTH1; EDSC; OI1; OI2; OI3; OI4
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC206234).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf1 ORF Mlu I GCG ATC GC C ATG// NNN ACG CGT



ACCN: ORF Size: NM_000088 4392 bp



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

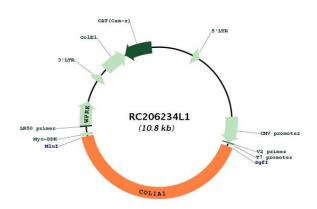
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts
	of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 000088.3</u> , <u>NP 000079.2</u>
RefSeq Size:	5927 bp
RefSeq ORF:	4395 bp
Locus ID:	1277
UniProt ID:	<u>P02452</u>
Cytogenetics:	17q21.33
Domains:	COLFI, VWC, Collagen
Protein Families:	Druggable Genome
Protein Pathways:	ECM-receptor interaction, Focal adhesion
MW:	139.01 kDa

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

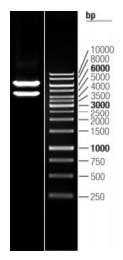
Collagen I (COL1A1) (NM_000088) Human Tagged Lenti ORF Clone – RC206234L1 Collagen I (COL1A1) (NM_000088) Human Tagged Lenti ORF Clone – RC206234L1

Gene Summary:This gene encodes the pro-alpha1 chains of type I collagen whose triple helix comprises two
alpha1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most
connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this
gene are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type
VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis.
Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for
platelet-derived growth factor beta are located, are associated with a particular type of skin
tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of
the growth factor. Two transcripts, resulting from the use of alternate polyadenylation signals,
have been identified for this gene. [provided by R. Dalgleish, Feb 2008]

Product images:



Circular map for RC206234L1



Double digestion of RC206234L1 using Sgfl and Mlul

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US