

Product datasheet for **RC218041L3V**

Collagen II (COL2A1) (NM_001844) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Collagen II (COL2A1) (NM_001844) Human Tagged ORF Clone Lentiviral Particle
Symbol:	COL2A1
Synonyms:	ANFH; AOM; COL11A3; SEDC; STL1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001844
ORF Size:	4461 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC218041).
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.
RefSeq:	NM_001844.3 , NP_001835.2
RefSeq Size:	5087 bp
RefSeq ORF:	4464 bp
Locus ID:	1280
UniProt ID:	P02458
Cytogenetics:	12q13.11
Protein Pathways:	ECM-receptor interaction, Focal adhesion
MW:	141.8 kDa



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Gene Summary:

This gene encodes the alpha-1 chain of type II collagen, a fibrillar collagen found in cartilage and the vitreous humor of the eye. Mutations in this gene are associated with achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer-Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetaphyseal dysplasia Strudwick type. In addition, defects in processing chondrocalcin, a calcium binding protein that is the C-propeptide of this collagen molecule, are also associated with chondrodysplasia. There are two transcripts identified for this gene. [provided by RefSeq, Jul 2008]