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Product datasheet for RC208484L4V

Collagen I (COL1A2) (NM_000089) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Collagen I (COL1A2) (NM_000089) Human Tagged ORF Clone Lentiviral Particle
Symbol:	COL1A2
Synonyms:	EDSARTH2; EDSCV; OI4
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_000089
ORF Size:	4098 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC208484).
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_000089.3
RefSeq Size:	5411 bp
RefSeq ORF:	4101 bp
Locus ID:	1278
UniProt ID:	P08123
Cytogenetics:	7q21.3
Domains:	COLFI, Collagen
Protein Families:	Druggable Genome

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Protein Pathways: ECM-receptor interaction, Focal adhesion

MW: 129.8 kDa

Gene Summary: This gene encodes the pro-alpha2 chain 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 VIIB, recessive Ehlers-Danlos syndrome Classical type, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe than mutations in the gene for the alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix integrity. Three transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalgleish, Feb 2008]