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Product datasheet for RC209473L4V

Collagen IX (COL9A1) (NM_078485) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Collagen IX (COL9A1) (NM_078485) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Collagen IX
Synonyms:	DJ149L1.1.2; EDM6; MED; STL4
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_078485
ORF Size:	2034 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC209473).`
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_078485.2
RefSeq Size:	3073 bp
RefSeq ORF:	2037 bp
Locus ID:	1297
UniProt ID:	P20849
Cytogenetics:	6q13
Domains:	Collagen
Protein Families:	Druggable Genome

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MW: 64.4 kDa

Gene Summary: This gene encodes one of the three alpha chains of type IX collagen, which is a minor (5-20%) collagen component of hyaline cartilage. Type IX collagen is usually found in tissues containing type II collagen, a fibrillar collagen. Studies in knockout mice have shown that synthesis of the alpha 1 chain is essential for assembly of type IX collagen molecules, a heterotrimeric molecule, and that lack of type IX collagen is associated with early onset osteoarthritis. Mutations in this gene are associated with osteoarthritis in humans, with multiple epiphyseal dysplasia, 6, a form of chondrodysplasia, and with Stickler syndrome, a disease characterized by ophthalmic, orofacial, articular, and auditory defects. Two transcript variants that encode different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]