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Product datasheet for RC208562L4V

Collagen VI (COL6A1) (NM_001848) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Collagen VI (COL6A1) (NM_001848) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Collagen VI
Synonyms:	BTHLM1; OPLL; UCHMD1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001848
ORF Size:	3084 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC208562).`
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_001848.2, NP_001839.2
RefSeq Size:	4246 bp
RefSeq ORF:	3087 bp
Locus ID:	1291
UniProt ID:	P12109
Cytogenetics:	21q22.3
Domains:	VWA, Collagen
Protein Pathways:	ECM-receptor interaction, Focal adhesion

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MW: 108.5 kDa

Gene Summary: The collagens are a superfamily of proteins that play a role in maintaining the integrity of various tissues. Collagens are extracellular matrix proteins and have a triple-helical domain as their common structural element. Collagen VI is a major structural component of microfibrils. The basic structural unit of collagen VI is a heterotrimer of the alpha1(VI), alpha2(VI), and alpha3(VI) chains. The alpha2(VI) and alpha3(VI) chains are encoded by the COL6A2 and COL6A3 genes, respectively. The protein encoded by this gene is the alpha 1 subunit of type VI collagen (alpha1(VI) chain). Mutations in the genes that code for the collagen VI subunits result in the autosomal dominant disorder, Bethlem myopathy. [provided by RefSeq, Jul 2008]