

Product datasheet for RC228226L3

OriGene Technologies, Inc.

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Collagen XI alpha 2 (COL11A2) (NM_001163771) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Collagen XI alpha 2 (COL11A2) (NM_001163771) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Collagen XI alpha 2

Synonyms: DFNA13; DFNB53; FBCG2; HKE5; OSMEDA; OSMEDB; PARP; STL3

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

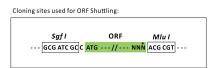
ORF Nucleotide

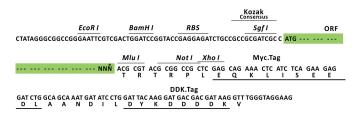
The ORF insert of this clone is exactly the same as(RC228226).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001163771

ORF Size: 870 bp



Collagen XI alpha 2 (COL11A2) (NM_001163771) Human Tagged Lenti ORF Clone - RC228226L3

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.

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: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. 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 001163771.1</u>

 RefSeq ORF:
 873 bp

 Locus ID:
 1302

 UniProt ID:
 P13942

 Cytogenetics:
 6p21.32

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: ECM-receptor interaction, Focal adhesion

MW: 31.96 kDa

Gene Summary: This gene encodes one of the two alpha chains of type XI collagen, a minor fibrillar collagen. It

is located on chromosome 6 very close to but separate from the gene for retinoid X receptor beta. Type XI collagen is a heterotrimer but the third alpha chain is a post-translationally modified alpha 1 type II chain. Proteolytic processing of this type XI chain produces PARP, a proline/arginine-rich protein that is an amino terminal domain. Mutations in this gene are associated with type III Stickler syndrome, otospondylomegaepiphyseal dysplasia (OSMED syndrome), Weissenbacher-Zweymuller syndrome, autosomal dominant non-syndromic sensorineural type 13 deafness (DFNA13), and autosomal recessive non-syndromic

sensorineural type 53 deafness (DFNB53). Alternative splicing results in multiple transcript variants. A related pseudogene is located nearby on chromosome 6. [provided by RefSeq, Jul

2009]