

## Product datasheet for MR212011L4

### Col5a2 (NM\_007737) Mouse Tagged Lenti ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Col5a2 (NM_007737) Mouse Tagged Lenti ORF Clone                |
| Tag:                      | mGFP   |
| Symbol:                   | Col5a2   |
| Synonyms:                 | 1110014L14Rik  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)                              |
| E. coli Selection:        | Chloramphenicol (34 ug/mL)                                     |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR212011). |
| Restriction Sites:        | SgfI-MluI  |
| Cloning Scheme:           |  |

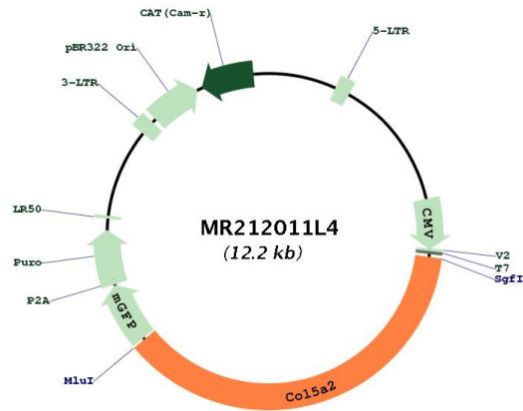
Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.



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**Plasmid Map:**


**ACCN:** NM\_007737

**ORF Size:** 4491 bp

**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:** [NM\\_007737.2](#), [NP\\_031763.2](#)

**RefSeq Size:** 6615 bp

**RefSeq ORF:** 4494 bp

Locus ID: 12832

UniProt ID: [Q3U962](#)

Cytogenetics: 1 C1.1

**Gene Summary:** This gene encodes the alpha-2 subunit of type V collagen, one of the low abundance fibrillar collagens that gets incorporated into growing fibrils with type I collagen. The encoded protein, in association with alpha-1 and/or alpha-3 subunits, forms homo- or heterotrimeric type V procollagen that undergoes proteolytic processing. Mice lacking the encoded protein die in utero. Transgenic mice that produce a structurally abnormal form of the encoded protein survive poorly and exhibit skin fragility, skeletal abnormalities and alterations in the collagen fiber organization. [provided by RefSeq, Dec 2015]