

Product datasheet for **MG211998**

Col3a1 (NM_009930) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Col3a1 (NM_009930) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Col3a1
Synonyms: AW550625; Col3; Col3a-1; Tsk; Tsk-; Tsk-2; Tsk2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG211998 representing NM_009930
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >MG211998 representing NM_009930
 Red=Cloning site Green=Tags(s)

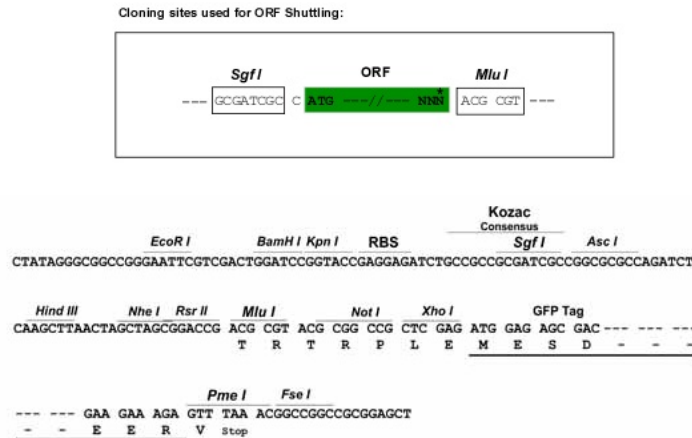
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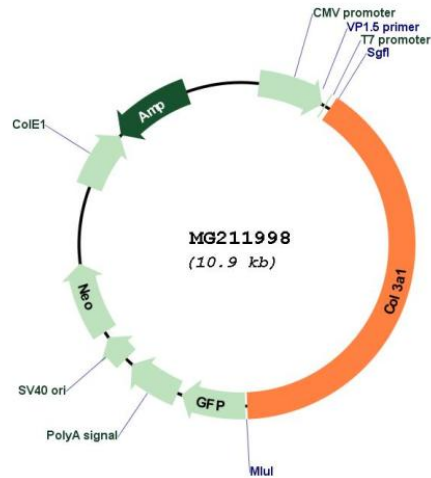
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_009930

ORF Size: 4392 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_009930.2](#), [NP_034060.2](#)

RefSeq Size: 5564 bp

RefSeq ORF: 4395 bp

Locus ID: 12825

UniProt ID: [P08121](#)

Cytogenetics: 1 23.67 cM

Gene Summary: This gene encodes the alpha-1 subunit of the fibril-forming type III collagen found in bone, cartilage, dentin, tendon, bone marrow stroma and other connective tissue. The encoded protein forms homotrimeric type III procollagen that undergoes proteolytic processing during fibril formation. A majority of mice lacking the encoded protein die within two days of birth but about 5% of the animals survive to adulthood. The surviving mice exhibit severe cortical malformation and experience significantly shorter lifespan. The mutant mouse named "tight skin 2" exhibiting systemic sclerosis phenotype was found to harbor a missense point mutation in this gene. A pseudogene of this gene has been defined on chromosome 8. [provided by RefSeq, Nov 2015]