

Product datasheet for MR212011

Col5a2 (NM_007737) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Col5a2 (NM_007737) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Col5a2
Synonyms: 1110014L14Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR212011 representing NM_007737
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGGCAAACGGGTGGGAGCAAGACCTCTCCTCATTCTTTCTGTTTTATTAGGGTACTGTGTCTCAA
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ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >MR212011 representing NM_007737
 Red=Cloning site Green=Tags(s)

MMANWVGARPLLILSVLLGYCVSIIKAQEENDEYDEEIIACTQHGMYLNRDIWKPSPQCICVCDNGAILC
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 GETCISANPASVPRKTTWASKSPDNKPVWYGLDMNRGSQFTYGDYQSPNTAITQMTFLRLLSKEASQNL
 YICRNTVGYMDDQAKNLKAVVLKGSNDLEIKGEGNIRFRYTVLQDTCCKRNGNVGKTI FEYRTQNVARL
 P.IIDVGPVDIGNADQEFGLDIGPVCFM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9105_b09.zip

Restriction Sites: SgfI-MluI

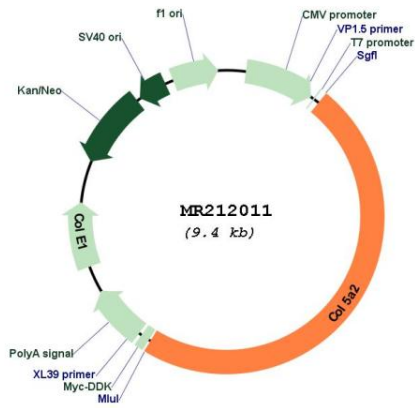
Cloning Scheme:



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:	<ol style="list-style-type: none">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
MW:	145 kDa
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]

Product images:



Circular map for MR212011