

Product datasheet for MR225252

Col1a2 (NM_007743) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Col1a2 (NM_007743) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Col1a2
Synonyms: AA960264; AI325291; Co; Col; Col1; Col1a-2; Cola-2; Cola2; oim
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR225252 representing NM_007743
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR225252 representing NM_007743
 Red=Cloning site Green=Tags(s)

MLSFVDTRLLLLAVTSLATCQYLQSGSVRKGPTGDRGPRGQRPAGPRGRDGDVGMGPPGPPGSPGP
 PGSPAPPGLTGNFAAQYSDKGVSSGPGMGLMGRGPPGAVGAPGQGFQGPAGEGPEGQTGPAGPRGP
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 ARGPPGAVGSPGVNGAPGEAGRDGNPDSGDPGRDQPGHKGERGYPSIGPTGAAGAPPHGSVGPAGK
 HGNRGEPPAGSVGPVAVGPRGSPGQPIRGDKGEPGDKGHRGLPGLKYSGLQGLPGLAGLHGDQGP
 GPVGPAGPRGAPSGPVGKDRSGQPGVGPAGVRSQGSQGPAGPPGPPGPPGVPVSGGGYDFGFEF
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 GCTMDAIKVYCDFSTGETCIQAQPVNTPAKNSYSRAQANKHWLGETINGGSQFEYNVEGVSSKEMATQL
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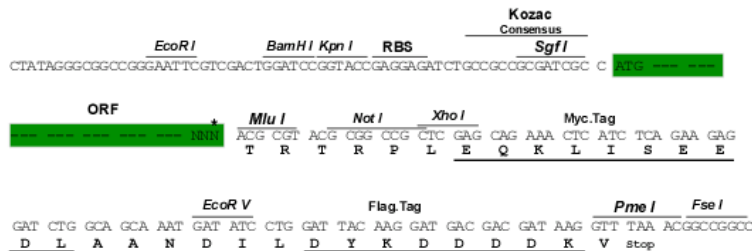
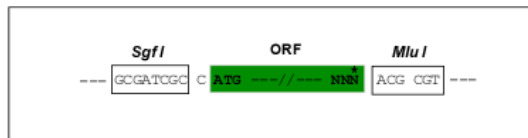
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



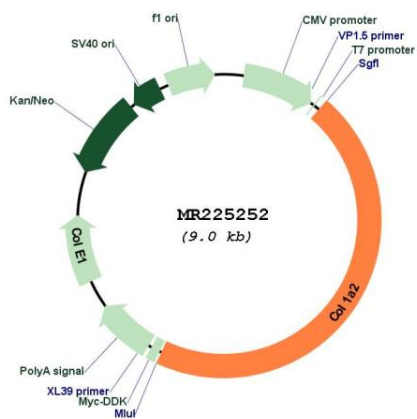
* The last codon before the Stop codon of the ORF

ACCN: NM_007743

ORF Size: 4116 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_007743.3 , NP_031769.2
RefSeq Size:	5222 bp
RefSeq ORF:	4119 bp
Locus ID:	12843
UniProt ID:	Q01149
Cytogenetics:	6 1.81 cM
MW:	129.6 kDa
Gene Summary:	This gene encodes the alpha-2 subunit of the fibril-forming type I collagen, the most abundant protein of bone, skin and tendon extracellular matrices. The encoded protein, in association with alpha-1 subunit, forms heterotrimeric type I procollagen that undergoes proteolytic processing during fibril formation. Mice harboring certain mutations in the encoded gene exhibit symptoms of moderate to severe forms of osteogenesis imperfecta. [provided by RefSeq, Dec 2015]

Product images:



Circular map for MR225252