

Product datasheet for **RC220741**

COL22A1 (NM_152888) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL22A1 (NM_152888) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COL22A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220741 representing NM_152888 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC220741 representing NM_152888
 Red=Cloning site Green=Tags(s)

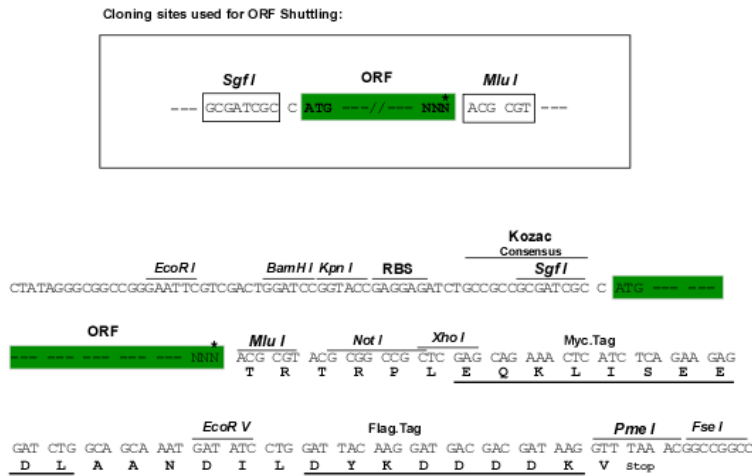
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Restriction Sites:

Sgfl-MluI

Cloning Scheme:



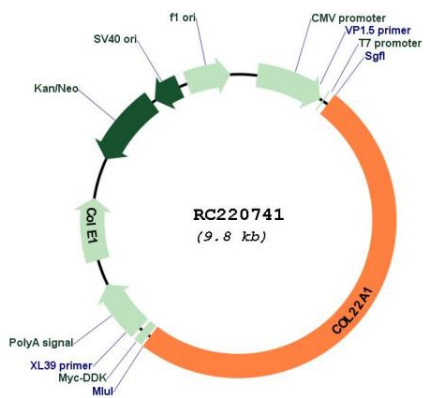
* The last codon before the Stop codon of the ORF

ACCN:

NM_152888

ORF Size:	4878 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_152888.1 , NP_690848.1
RefSeq Size:	6366 bp
RefSeq ORF:	4881 bp
Locus ID:	169044
UniProt ID:	Q8NFW1
Cytogenetics:	8q24.23-q24.3
MW:	161 kDa
Gene Summary:	This gene encodes member of the collagen family which is thought to contribute to the stabilization of myotendinous junctions and strengthen skeletal muscle attachments during contractile activity. It belongs to the fibril-associated collagens with interrupted triple helix (FACIT) subset of the collagen superfamily, which associate with collagen fibers through their C-terminal collagenous domains and mediate protein-protein interactions through their N-terminal noncollagenous domains. The encoded protein is deposited in the basement membrane zone of the myotendinous junction which is present only at the tissue junctions of muscles, tendons, the heart, articular cartilage, and skin. A knockdown of the orthologous zebrafish gene induces a muscular dystrophy by disruption of the myotendinous junction. [provided by RefSeq, May 2017]

Product images:



Circular map for RC220741