

Product datasheet for **RC202240**

COL8A1 (NM_020351) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COL8A1 (NM_020351) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COL8A1
Synonyms:	C3orf7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC202240 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGTGCTGCCTGGCCCTCTGCAGCTGCTGGGAGTGTGCTTACCATTTCCTGAGTTCATCAGGC
TCATTCAGGCTGGTGCCTACTATGGGATCAAGCCGCTGCCACCTCAAATTCCTCCTCAGATGCCACCACA
AATTCCACAATACCAGCCCTGGGTGAGCAAGTACCTCACATGCCTTTGGCCAAAGATGGCCTTGCCATG
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AGGGGAACAAGGTCCCCGTGGAGAGCCTGGCCAAAGAGGACCACCTGGGCCCCCTGGTTTGCAGGTCAT
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AAGGCCTTCGGGGTCTAAAGGAGACAAGGGCTTCGGGATGCCAGGTGCCAGGTGTAAGGGGGCTCC
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GGGCCCCAGGGCCCCCTGGGAAAGCCAGGGGCTCCAGGAGAACCTGGGCCACAAGGCCCTATTGGGGTAC
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GGCAGGACTTCATGGCCCCCAGGGAAGCCTGGTGCCTTGGTCTCAAGGCCAGCCTGGCCTTCCAGGA
CCCCCAGGCCCTCCAGGACCTCCAGGACCCCAAGCTGTGATGCCCCCTACACCACCACCCAGGGAGAGT
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GCCCCAGTGAAGTTTAAACAACTGCTGTATAACGGCAGACAGAATAACAACCCGACAGCAGGCATCTTCA
CCTGTGAGGTCCCTGGTGTCTACTACTTTGCATACCACGTTCACTGCAAGGGGGGCAACGTGTGGTTGC
TCTATTCAAGAACAACGAGCCCGTGTGTACACGTACGACGAGTACAAAAAGGGCTTCTGGACCAGGCA
TCTGGGAGTGCAGTGTGCTGCTCAGGCCCGGAGACCGGGTGTCTCCAGATGCCCTCAGAACAGGCTG
CAGGACTGTATGCCGGGCAGTATGTCCACTCCTCTTTTCAGGATATTTATTGTATCCCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202240 protein sequence
Red=Cloning site Green=Tags(s)

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MAVLPGPLQLLGVLLTISLSSIRLIQAGAYYGIKPLPPQIPPQMPPIQYQPLGQQVPHMPLAKDGLAM
GKEMPHLQYGKEYPHLPQYMKELQAPRMRGKEAVPKKGEIPLASLRGEQGRGEPGRGPPGPPGLPGH
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GPQGLGKPGAPGEPGPQGPVIGVPGVQPPGIPGIGKPGQDGIPIGQPGFPGGKGEQGLPGLPGPPGLPGI
GKPGFPGPKGDRMGVPGALGPRGEKGIPIGAPGIGGPPGEPGLPGIPGMPGPPGAIIGFPGKGEIGVIG
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QGLQGGPIPGIGGSPGIPGPPGIPGKGEPLGPPGPGIGKPGVAGLHGPPGKPGALGPQQPGLPG
PPGPPGPPGPPAVMPPTPPPQGEYLPDMGLGIDGVKPPHAYGAKKGNNGPAYEMPAFTAELTAPFPVVG
APVKFNKLLYNGRQYNPQTGIFTCVPGVYFYAYHVHCKGGNVVVALFKNNEPVMYTYDEYKKGFLDQA
SGSAVLLLLRPGDRVFLQMPSEQAAGLYAGQYVHSSFSGYLLLYPM
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6303_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_020351

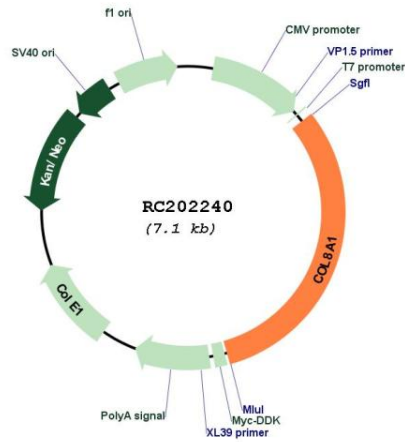
ORF Size: 2232 bp

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](#)

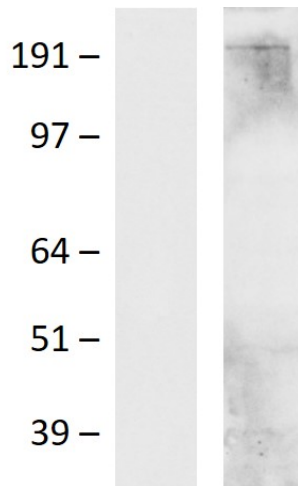
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_020351.4
RefSeq Size:	3029 bp
RefSeq ORF:	2235 bp
Locus ID:	1295
UniProt ID:	P27658
Cytogenetics:	3q12.1
Protein Families:	Druggable Genome
MW:	73.4 kDa
Gene Summary:	This gene encodes one of the two alpha chains of type VIII collagen. The gene product is a short chain collagen and a major component of the basement membrane of the corneal endothelium. The type VIII collagen fibril can be either a homo- or a heterotrimer. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC202240



Western blot validation of overexpression lysate (Cat# [LY412523]) using anti-DDK antibody (Cat# [TA592569]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202240 using transfection reagent PEI.