

Product datasheet for **MR210420**

Col8a1 (NM_007739) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Col8a1 (NM_007739) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Col8a1
Synonyms:	Col8a-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210420 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**C

 ATGGCACTGCCACCCAGGCCTCTACAGCTGCTGGGAATACTGTTTCATCATTTCCCTGAACCTGTGCAGAC
TCATTCAGGCCGGTGCCCTACTATGGAATCAAGCCTCTGCCACCTCAAATCCCTCCTCAGATACCACCACA
AATTCACAGTACCAGCCCTTGGGCCAGCAAGTCCCTCACATGCCCTTGGGCAAAGATGGCCTTTCCATG
GGCAAAGGAGATGCCTCACATGCAGTATGGCAAAGAGTACCCACACCTACCCCAATATATGAAGAAATCC
CACCTGTGCCAAGAAATGGGCAAGGAAGTGGTGCCTCAAAAAGGCAAGGAGAAGTACCGTTAGCCAGTTT
GCGCGGAGAACAAGGTCCCGTGGAGAACCTGGACCAAGAGGACCACCTGGGCGGCCAGGTTTACCAGGT
CATGGAATGCCTGGAATCAAAGGAAAACCAGGGCCCCAGGGATATCCAGGAATTGGAAAGCCCGGTATGC
CTGGAATGCCTGGGAAGCCAGGAGCCATGGGAATGCCAGGGGCAAAAGGCGAAATTGGACCCAAAGGGGA
AATCGGACCTATGGGAATCCCAGGGCCACAAGGGCCTCCAGGACCTCATGGACTTCTGGCATCGGGAAA
CCGGGTGGGCCAGGGTTACCAGGGCAACCAGGAGCAAAAGGTGAGAGGGGGCCCAAGGACCACCAAGGAC
CTCCCGGCCTTCAGGGTCCCAAGGAGAGAAGGGCTTTGGGATGCCTGGCTTGCCAGGTCTGAAGGGTCC
TCCAGGTATGCATGGCCCTCCTGGACCAAGTTGGACTACCGGGAGTAGGAAAACCAGGAGTGACAGGCTTT
CCTGGACCACAGGGTCCCTGGGGAAGCCAGGGCCTCCAGGGGAACCTGGACCACAAGGCCTTATTGGTG
TGCCAGGAGTTCAAGGACCTCCTGGGATGCCTGGAGTTGGAAAGCCAGGTGAGATGGGATCCCGGGCCA
ACCAGGATTTCCGGTGGTAAAGGGGAACAAGGATTGCCAGGGTTGCCTGGACCCCAAGGCCTCCAGGG
GTCGGAAGCCAGGTTTCCAGGACCCAAAGGGGACCGGGGTATTGGGGTGTCTCTGGGTTCTTGGGC
CGAGAGGGGAAAAGGACCCATTGGTGCTCCTGGAATGGGGGTCCACCTGGAGAGCCAGGCCTACCCGG
TATCCCGGGTCCCATGGGCCCTCCAGGTGCTATTGGTTTCCCTGGACCCAAAGGAGAAGGTGGAGTTGTA
GGACCACAGGGTCCACCAGGCCCAAGGAGAGCCTGGCCTCCAAGGCTTCCCTGGGAAGCCAGGTTTTTC
TTGGTGAAGTAGGTCCCTGGCATGAGGGTTTGGCTGGTCTATAGGACCCAAAGGAGAAGGTGGTCA
CAAAGGGTTGCCAGGGCTTCCCGGTGTTCCAGGGCTGCTTGGACCCAAAGGAGAACCTGGCATACCTGGG
GATCAGGGTCTACAGGGTCCCCAGGGATTCCAGGGATCGTAGGACCTAGTGGCCCTATTGGACCCCTG
GGATTCGGGGCCCAAGGAGAACCAGGCCTCCAGGGCCCCCTGGGTTCCCTGGTGTAGGGAAGCCAGG
AGTAGCAGGACTTCATGGGCCCCGGGGAACCTGGTGCCCTTGGGCCTCAAGGCCAGCCTGGCCTTCT
GGACCCCAAGGTCTCCAGGACCCCAAGGCCTCCAGCTGTGATGCCTACACCATCACCCAGGGAGAGT
ATCTGCCAGATATGGGACTAGGAATTGATGGGGTGAAACCTCCGATGCCTATGCGGGCAAAAAGGGCAA
ACACGGAGGGCCAGCCTATGAGATGCCTGCGTTTACTGCCGAGCTGACTGTACCTTTCCACCGGTGGGG
GCCCCAGTGAAGTTTGACAAGCTGCTCTACAACGGCAGACAGAATAAATCCGACAGACAGGCATCTTCA
CCTGTGAAGTCCCGGTGTCTACTACTTTGCTTATCATGTTCACTGCAAGGGAGGCAACGTATGGTTGC
TCTCTTCAAGAACAACGAGCCCATGATGTACACATACGACGAGTACAAGAAGGGCTTTCTGGACCAAGCA
TCTGGAAGCGCAGTACTGCTTCTCCGTCCCGGAGACCAGGTGTTTCTCCAATGCCTTCAGAACAGGCTG
CTGGACTCTATGCCGGGCAATATGTCCACTCCTCTTTTCAGGATATTTATTGTATCCCATGT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210420 protein sequence
 Red=Cloning site Green=Tags(s)

MALPPRPLQLLGILFIIISLNSVRLIQAGAYYGIKPLPPQIPPQIPQIPQYQPLGQQVPHMPLGKDGLSM
 GKEMPHMQYGYKYPHLPQYMKIIPPVPRMGKEVVPKKGKEVPLASLRGEQGPRGEPGPRGPPGPPGLPG
 HGMPGIKKGKPGQGYPGIGKPGMPGMPGKPGAMGMPGAKGEIGPKGEIGPMGIPGPQGGPHGLPGIGK
 PGGPGLPGQPGAKGERGPKGPPGPPGLQGPKEGKGFGMPGLPGLKGGPMHGGPPGPVGLPGVGKPGVTGF
 PGPGPLGKPGPPGEPGQGLIGVPGVQGGPPGMPGVGKPGQDGIQPGPGFPGGKGEQGLPGLPGPPGLPG
 VGKPGFPGPKGDRGIGGVPGLGPRGEKPIGAPGMGGPPGEPGLPGIPGPMGPPGAIGFPGKGEGGVV
 GPQGGPPGKGEPLQGFPGKPGFLGEVPPGMRGLPGIPGKGEGGHKGLPGLPGVPGLLGPKGEPIPG
 DQGLQGGPIPGIVGPSPIGPPGIPGKGEPLGPPGFGVGKPGVAGLHGPPGKPGALGPQGGPLP
 GPPGPPGPPGPPAVMPTPSPQGEYLPDMGLGIDGVKPPHAYAGKKGKHGGPAYEMPAFTAELTVPFPPVG
 APVKFDKLLYNGRQNYNPQTGIFTCEVPGVYFYAYHVHCKGGNVWVAFKNNPMMYTYDEYKKGFLDQA
 SGSAVLLLRPGDQVFLQMPSEQAAGLYAGQYVHSSFSGYLLYPM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_007739

ORF Size: 2233 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq Size: 5110 bp

RefSeq ORF: 2235 bp

Locus ID: 12837

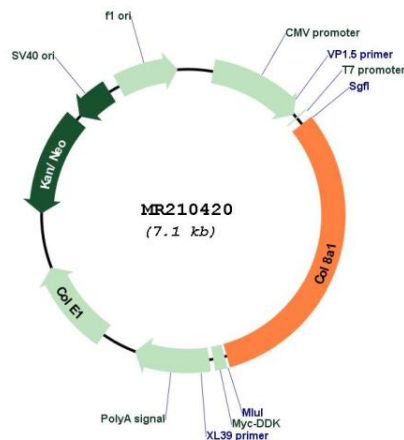
UniProt ID: [Q00780](#)

Cytogenetics: 16 C1.1

MW: 73.6 kDa

Gene Summary: Macromolecular component of the subendothelium. Major component of the Descemet's membrane (basement membrane) of corneal endothelial cells. Also component of the endothelia of blood vessels. Necessary for migration and proliferation of vascular smooth muscle cells and thus, has a potential role in the maintenance of vessel wall integrity and structure, in particular in atherogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210420