

Product datasheet for **MR210118**

Col8a2 (NM_199473) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Col8a2 (NM_199473) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Col8a2
Synonyms:	A1429819
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210118 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAGGGGGCTCTGATGCCCTGCCTTCGCTGCTGCTGTTGCTGTTGGGGTGTGGGCCAAGAGTGCCT
 CTGGCGGCGGAGCTGGGGTGCAGCGGGCTATGCCCGGTAAAGTATGTGCAGCCATGCAGAAAGGACC
 CGTGGGACCGCCTTCCGAGAGGGCAAAGTCACTTGGAAATGCCTCTACCGATGCTGCCAATGGAC
 TTGAAAGGAGAGCCAGGTCCCCGGAAGCCGGGACCTCGGGTCCCCCTGGCCTCCTGGCTTCCAG
 GAAAACAGGCACTGAAAACCTGGGGTTCATGGACAGCCAGGCCCTGCTGGCCCCCTGGCTTCTCCCG
 AATGGGCAAAGCTGGTCCCCAGGGCTCCAGGCAAGTTGGACCACCAGGGCAGCCAGGGCTACGGGG
 GAGCCAGGATACGAGGGGACCAGGGCTCCGGGGCCCCAGGACCCCTGGCCTTCTGGTCCCTCAG
 GTATTACTGTCCCTGAAAACAGGTGCCAGGGGGCTCCAGGGCTCCAGGATTTAGGGGGAGCCAGG
 ACCCCAGGAGAGCCTGGCCCCGAGGAGATAGGGGCTCAAAGGGGATAATGGAGTGGGCCAACAGGG
 CTGCTGGAGCCCTGGACAGGCAGGTGCCCTGGGCCCTGGGCTGCCGGTCCAGCTGGCTTGGGCA
 AACCAGGTTTGGATGGGATACCAGGAGCCCAGGAGACAAGGTGATTCTGGCCCCCTGGGGTTCAGG
 TTCTAGGGGAGAGCCAGGAGCTGTGGGTCCAAAAGGCCCTCCTGGGGTAGATGGTGTGGGATACCAGG
 GCAGCAGGGGTGCCAGGGCCACAGGGTCCAGTAGGGGCTAAAGGAGAGCCAGGGCTCCGGGGCCCCCTG
 GCCTGATAGGCCCTGTTGGCTATGGGATGCCAGGAAAACAGGACCTAAGGGAGACAGGGGCCAGTTGG
 GGCCCCAGGGCTCTTAGGAGACAGAGGTGAGCCAGGAGAGGATGGGAAGCCAGGGGAGCAGGGTCCACAG
 GGACTTGGGGTCCACCTGGCCTTCTGGGTCTGCAGGGCTTCTGGTAGACGTGGGCCCTGGGTCAA
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 GGCTGGGAAGCCTGGGCTCCCTGGTGGAGGGGACTTCTGGGGCCATGGACCCCTGGACCCGACTGGG
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 GTGACTTGGGGCTTCTGGGAGCCTGGCTTGGGGTCCCTCTGGAATCCAGGGCTCCAGGGCCAGC
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 GGAAAAGTAGGGGAGCCTGGCTCTGCTGGTCCACAGGGCCCCCTGGAGTCCCTGGCTCCCAGGACTCA
 CAGGCTCCTGGGCCCTGGGCTCCTGGGCTCCTGGTGGCCCCGGAGCCCTGGATGAGACTGGTAT
 CGCAGGCTTGATCTGCCAATGGTGGCTGGAGGGAGCTGTACTGGCAAAGGAGGCAAGCCACAGTTT
 GGCTCGGTGAGCTGTCAGCCCACGCCACTCCAGCCTTTACTGCAGTGTCACTTCCCCCTTCCCTGCCT
 CAGGCATGCCGGTTAGGTTTACCAGGACTCTACAATGGCCACAGCGGCTACAACCCAGCCACTGGCAT
 TTTCACCTGCCCCGTGGGAGGGTCTACTACTTTGCATACCATGTGCATGTCAAGGGACCAATGTGTGG
 GTAGCCCTGTACAAGAACAATGTGCCGGCCACTACACGTACGACGAATACAAGAAGGGCTACCTGGACC
 AGGCTTCCGGAGGGGCTGTGCTCCAGCTGCGGCCAATGACCAGGTGTGGGTGCAGATGCCCTCAGATCA
 GGCCAATGGTCTCTACTCCACCGAGTACATCCATTGCTCCTTCTCAGGATTCTTGTCTGTCCACA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210118 protein sequence
Red=Cloning site Green=Tags(s)

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MQGALMPLPSLLLLLLGCGPRVSSGGGAGGAAGYAPVKYVQPMQKGPVGGPPFREGKGQYLEMPLPMLPMD
LKGEPPPGKPGPRGPPPPGFPGKPGTGGKPGVHGQPGPAGPPGF SRMGKAGPPGLPGKVGGPPGQPLGRG
EPGIRGDQGLRGGPPPLPGPSGITVPGKPGAQAGPPGFGRGEPGPQGEPPGRDRGLKGDNGVGQPG
LPGAPGQAGAPGPPGLPGPAGLGGKPLDGIPGAPGDKGDSGPPGVPGSRGEPGAVGPKGPPGVDGVGIPG
AAGVPGPQGPVGAKEPGLRGGPGLIGPVGYGMPGKPGKPGDRGPPVAPGLLGDGEPGEDGKPGEGQGPQ
GLGGPPPLPGSAGLPGRRGPPGSKGEVGGPPGVPGIRGDQGPNGLAGKPLPGERGLPGAHPGPPGPTG
PKGEPGFTGRPGGPGVAGALGQKGDLLPGQPLRGPSPGIPGLQGPAGPIGPQGLPGLKGEPLPGPPGE
GKVGEPSAGPTGPPGVPSPGLTGGPPGPPGPPGAPGALDETGIAGLHLPNGGVEGAVLGGKGGKQF
GLGELSAHATPAFTAVLTSFPASGMPVRFDRTLYNHSGYNPATGI FTCPVGGVYFAYHVHVKGTNVW
VALYKNNVPATYTYDEYKKGYLDAQSSGAVLQLRPNDQVWVQMPDQANGLYSTEYIHSSFSGLLCT
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_199473

ORF Size: 2100 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.

RefSeq: [NM_199473.1](#)

RefSeq Size: 4331 bp

RefSeq ORF: 2100 bp

Locus ID: 329941

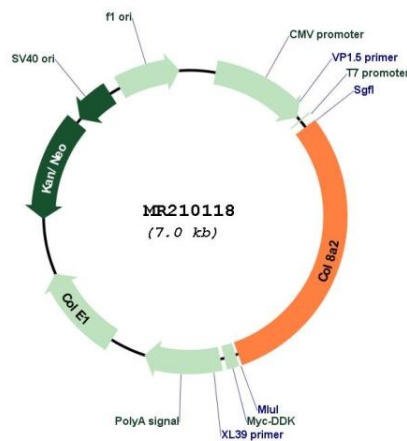
UniProt ID: [P25318](#)

Cytogenetics: 4 60.29 cM

MW: 66.9 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210118