

## Product datasheet for **MC220630**

### Col8a2 (NM\_199473) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Col8a2 (NM_199473) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Col8a2
Synonyms:	AI429819
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220630 representing NM\_199473  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGGGGGCTCTGATGCCCTGCCTTCGCTGCTGCTGTTGCTGTTGGGGTGTGGGCCAAGAGTGTCTCT  
 CTGGCGCGGAGCTGGGGTGCAGCGGGCTATGCCCGGTAAAGTATGTGCAGCCATGCAGAAAGGACC  
 CGTGGGACCGCCTTCCGAGAGGGCAAAGGCCAGTACTTGAAATGCCTCTACCGATGCTGCCAATGGAC  
 TTGAAAGGAGAGCCAGGTCCCCGTTGGAAGCCGGGACCTCGGGTCCCCCTGGCCCTCTGGCTTCCAG  
 GAAAACAGGCACTGAAAACCTGGGGTTCATGGACAGCCAGGCCCTGCTGGCCCCCTGGCTTCTCCCG  
 AATGGGCAAAGCTGGTCCCCAGGGCTCCAGGCAAGGTTGACCACCAGGGCAGCCAGGGCTACGGGG  
 GAGCCAGGATACGAGGGGACCAGGGCTCCGGGGCCCCAGGACCCCTGGCCTTCTGGTCCCTCAG  
 GTATTACTGTCCCTGAAAACAGGTGCCAGGGGCTCCAGGGCTCCAGGATTTAGGGGGAGCCAGG  
 ACCCCAGGAGAGCCTGGCCCCGAGGAGATAGGGGCTCAAAGGGGATAATGGAGTGGGCCAACAGGG  
 CTGCCTGGAGCCCTGGACAGGCAGGTGCCCTGGGCCCTGGGCTGCCGGTCCAGCTGGCTTGGGCA  
 AACCAGGTTTGGATGGGATACCAGGAGCCCCAGGAGACAAGGTGATTCTGGCCCCCTGGGGTCCAGG  
 TTCTAGGGGAGAGCCAGGAGCTGTGGTCCAAAAGGCCCTCTGGGGTAGATGGTGTGGGATACCAGGG  
 GCAGCAGGGGTGCCAGGGCCACAGGGTCCAGTAGGGGCTAAAGGAGAGCCAGGGCTCCGGGGCCCCCTG  
 GCCTGATAGGCCCTGTTGGCTATGGGATGCCAGGAAAACAGGACCTAAGGGAGACAGGGGCCAGTTGG  
 GGCCCCAGGGCTTTAGGAGACAGAGGTGAGCCAGGAGAGGATGGGAAGCCAGGGGAGCAGGGTCCACAG  
 GGACTTGGGGTCCACCTGGCCTTCTGGTCTGCAGGGCTTCTGGTAGACGTGGGCCCTGGGTCAA  
 AGGGAGAGGTAGGACCTGGAGTCCCCAGGAGTGCCTGGCATTGAGGAGACCAAGGGCCTAATGGCCT  
 GGCTGGGAAGCCTGGGCTCCCTGGTGGAGGGGACTTCTGGGGCCATGGACCCCTGGACCCACTGGG  
 CCTAAGGGTGAGCCAGGTTTTACAGTCCGCTGGAGGGCCAGGGTGGCAGGAGCCCTAGGACAGAAAG  
 GTGACTTGGGGCTTCTGGGAGCCTGGCTTGGGGTCCCTCTGGAATCCAGGGCTCCAGGGCCAGC  
 TGGCCCTATTGGGCTCAGGGTCTGCCAGGCTGAAGGGTGAACCGGGCTTCCAGGGCTCCTGGAGAG  
 GGAAAAGTAGGGGAGCCTGGCTCTGCTGGTCCACAGGGCCCCCTGGAGTCCCTGGCTCCCAGGACTCA  
 CAGGCTCCTGGGCCCTGGGCTCCTGGGCTCCTGGTCCCCCGGAGCCCTGGATGAGACTGGTAT  
 CGCAGGCTTGATCTGCCAATGGTGGCGTGGAGGGAGCTGTACTGGCAAAGGAGGCAAGCCACAGTTT  
 GGCTCGGTGAGCTGTCAGCCCAGCCACTCCAGCCTTTACTGCAGTGTCACTTCCCCCTCCCTGCCT  
 CAGGCATGCCGGTTAGGTTTACCGGACTCTACAATGGCCACAGCGGCTACAACCCAGGCACTGGCAT  
 TTCCACCTGCCCCGTGGGAGGGTCTACTACTTTGCATACCATGTGCATGTCAAGGGCACC AATGTGTGG  
 GTAGCCCTGTACAAGAACAATGTGCCGGCCACTACACGTACGACGAATACAAGAAGGGCTACCTGGACC  
 AGGCTTCGGGAGGGGCTGTGCTCCAGCTGCGGCCCAATGACCAGGTGTGGGTGCAGATGCCCTCAGATCA  
 GGCCAATGGTCTCTACTCCACCGAGTACATCCATTCGTCCTTCTCAGGATTTGCTCTGTCCCACATA**AA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_199473
- Insert Size:** 2100 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_199473.2](#), [NP\\_955767.1](#)

**RefSeq Size:** 4331 bp

**RefSeq ORF:** 2100 bp

**Locus ID:** 329941

**UniProt ID:** [P25318](#)

**Cytogenetics:** 4 60.29 cM

**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]