

Product datasheet for **MG210118**

Col8a2 (NM_199473) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Col8a2 (NM_199473) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Col8a2
Synonyms:	A1429819
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210118 representing NM_199473
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAGGGGCTCTGATGCCCTGCCTTCGCTGCTGCTGTTGCTGTTGGGGTGTGGGCCAAGAGTGCCT
CTGGCGGCGGAGCTGGGGTGCAGCGGGCTATGCCCGGTAAAGTATGTGCAGCCATGCAGAAAGGACC
CGTGGGACCGCCTTCCGAGAGGGCAAAGTCACTTGGAAATGCCTCTACCGATGCTGCCAATGGAC
TTGAAAGGAGAGCCAGGTCCCCGGAAGCCGGGACCTCGGGTCCCCCTGGCCTCCTGGCTTCCAG
GAAAACAGGCACTGAAAACCTGGGGTTCATGGACAGCCAGGCCCTGCTGGCCCCCTGGCTTCTCCCG
AATGGGCAAAGCTGGTCCCCAGGGCTCCAGGCAAGTTGACCACCAGGGCAGCCAGGGCTACGGGG
GAGCCAGGATACGAGGGGACCAGGGCTCCGGGGCCCCAGGACCCCTGGCCTTCTGGTCCCTCAG
GTATTACTGTCCCTGAAAACAGGTGCCAGGGGCTCCAGGGCTCCAGGATTTAGGGGGAGCCAGG
ACCCAGGGAGAGCCTGGCCCCGAGGATAGGGGCTCAAAGGGGATAATGGAGTGGGCCAACAGGG
CTGCCTGGAGCCCTGGACAGGCAGGTGCCCTGGGCCCTGGGCTGCCGGTCCAGCTGGCTTGGGCA
AACCAGTTTGGATGGGATACCAGGAGCCCAGGAGACAAGGTGATTCTGGCCCCCTGGGGTTCAGG
TTCTAGGGGAGAGCCAGGAGCTGTGGTCCAAAAGGCCCTCCTGGGGTAGATGGTGTGGGATACCAGG
GCAGCAGGGGTGCCAGGGCCACAGGGTCCAGTAGGGGCTAAAGGAGAGCCAGGGCTCCGGGGCCCCCTG
GCCTGATAGGCCCTGTTGGCTATGGGATGCCAGGAAAACAGGACCTAAGGGAGACAGGGGCCAGTTGG
GGCCCCAGGGCTCTTAGGAGACAGAGGTGAGCCAGGAGAGGATGGGAAGCCAGGGGAGCAGGGTCCACAG
GGACTTGGGGTCCACCTGGCCTTCTGGTCTGCAGGGCTTCTGGTAGACGTGGGCCCTGGGTCAA
AGGGAGAGGTAGGACCTGGAGTCCCCAGGAGTGCCTGGCATTGAGGAGACCAAGGGCCTAATGGCCT
GGCTGGGAAGCCTGGGCTCCCTGGTGGAGGGGACTTCTGGGGCCATGGACCCCTGGACCCACTGGG
CCTAAGGGTGGAGCAGGTTTTACAGTCCGCTGGAGGGCCAGGGTGGCAGGAGCCTAGGACAGAAAG
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TGGCCCTATTGGGCTCAGGGTCTGCCAGGCTGAAGGGTGAACCGGGCTTCCAGGGCTCCTGGAGAG
GGAAAAGTAGGGGAGCCTGGCTCTGCTGGTCCACAGGGCCCCCTGGAGTCCCTGGCTCCCAGGACTCA
CAGGTCTCCTGGGCCCTGGGCTCCTGGGCTCCTGGTCCCCCGGAGCCCTGGATGAGACTGGTAT
CGCAGGCTTGATCTGCCAATGGTGGCTGGAGGGAGCTGTACTGGGCAAAGGAGGCAAGCCACAGTTT
GGGCTCGGTGAGCTGTCAGCCCACGCCACTCCAGCCTTTACTGCAGTGTCACTTCCCCCTTCCCTGCCT
CAGGCATGCCGGTTAGGTTTGACCGGACTCTACAATGGCCACAGCGGCTACAACCCAGGCACTGGCAT
CTTCACCTGCCCCGTGGGAGGGTCTACTACTTTGCATACCATGTGCATGTCAAGGGACCAATGTGTGG
GTAGCCCTGTACAAGAACAATGTGCCGGCCACTACACGTACGACGAATACAAGAAGGGCTACCTGGACC
AGGCTTCGGGAGGGGCTGTGCTCCAGCTGCGGCCCAATGACCAGGTGTGGGTGCAGATGCCCTCAGATCA
GGCCAATGGTCTACTCCACCGAGTACATCCATTGCTCCTTCTCAGGATTTGCTCTGTCCACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210118 representing NM_199473
 Red=Cloning site Green=Tags(s)

MQGALMPLPSLLLLLGGCPRVSSGGGAGGAAGYAPVKYVQPMQKGPVGPFFREGKGQYLEMPLPMLPMD
 LKGEPPGPKGPRGPPGPPGFPGKPGTGKPGVHGQPGPAGPPGFSRMGKAGPPGLPGKVGPPGQPLRG
 EPGIRGDQGLRPPGPPGLPGPSGITVPGKPGAQAGPPGFRGEPGPQGEPPGRDRGLKGDNGVGP
 LPGAPGQAGAPGPPGLPGPAGLGGKPLDGIIPGAPGDKGDSGPPGVPGSRGEPGAVGPKGPPGVDG
 AAGVPGPQGPVGAKEPGLRGPPLIGPVGYGMPGKPGKGDGPGVAPGALLGDRGEPGEDGKPGEGP
 GLGGPPGLPGSAGLPGRGPPGSKGEVGPVGPVIRGDQGPNGLAGKPLPGERGLPGAHPGPPGPTG
 PKGEPGFTGRPGGPGVAGALGQKGLDGLPGQPLRGPSPGIPGLQGPAGPIGPQGLPGLKGEPLGPPGE
 GKVGEPGSAGPTGPPGVPSPGLTGPPGPPGPPGPPGAPGALDETGIAGLHLPNGGVEGAVLGKGGKQF
 GLGELSAHATPAFTAVLTSFPASGMPVRFDRTLYNHSGYNPATGIFTCPVGGVYFYAYHVHVKTNVV
 VALYKNNVPATYTYDEYKKGYLDAQSSGAVLQLRPNDQVWVQMPDQANGLYSTEYIHSSFSGFLLCPT

TRTRPLE - GFP Tag - V

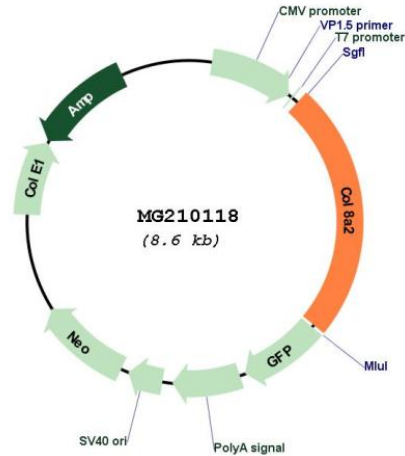
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_199473

ORF Size: 2097 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

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]