

## Product datasheet for MC224807

### Col4a3 (NM\_007734) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Col4a3 (NM\_007734) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Col4a3  
**Synonyms:** alpha3(IV); [a]3(IV)  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224807 representing NM\_007734  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCACTCCAAGACTGCTCCAAGTTCTGGTGTCTGCTGCTTACCCTGCTGCTACTCCTGGCTGCCT  
 CTCCTGTGGCTAGCAAGGGCTGTGTCTGCAAAGGCAAAGGACAATGCCTCTGCGCGGGGACCAAAGGGGA  
 GAAGGGGGAGAAAGGGTTCTGGTTCCCTGGATTTCTGGCCAGAAAGGATTTCCAGGCTCTGAAGGC  
 TTGCTGGACCACAGGGACCCAAGGGCTCCCCAGGACTTCCGGGACTCACTGGCCCCAAAGGCATCAGGG  
 GAATAACTGGATTACCAGGGTTTGCAGGTCCTCTGGACTTCCAGGCCTCCCAGGCCACCCTGGGCCTCG  
 TGGGCTGGCTGGTTTACCAGGATGCAACGGATCTAAGGGTGAACAAGGATTCCCGGGCTTTCCCGGCACA  
 CCAGGCTATGCAGGGCTCCCAGGTCCTGATGGCTTGAAGGACAAAAGGGTGAGCCTGCTCAAGGAGAAG  
 ACAGGGGATTCAATGGAAAAGGTGACCCCTGGGCCTCCAGGGTTCCAGGCTTCCAGGTTTTCCGGGACT  
 CCCAGGTTTTCCAGGGCTGCCGGTCCACCAGGACCTCCGGGATTTTTGGTTTACCAGGAGCAATGGGA  
 CCCAGAGGACCAAAGGCCACATGGGCGATAGCGTGATAGGACAAAAGGAGAAAGGGGTATGAAAGGAT  
 TAACAGGACCTCCTGGCCACCAGGAACAGTGATTTTTACTCACTCACCCAGCCATACAACAAATCGGACTT  
 CAAGGGAGAGAAAGGAGATGAGGGAGAGAGGGGTGAACCCGACCTCCTGGACCCTCGGGGCCACCTGGA  
 GACTCCTATGGATCAGAAAAGGGTGCGCCTGGAGAGCCTGGTCTCGGGGCAAACCTGGAAGATGGTG  
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 CATTAAGGGAAGGAAAGGAGACATTGGCCCCCAGGATTTCTGGTCCAACAGAAATATTATGACGCATAC  
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 AATGTTCCCTGGTGGATGGAATGCCAGGTGACACAGGACCTCCAGGAGTTCCAGGACTTGATGGACC  
 CAAAGGAGAACCAGGCAGTCCATGCACCAGTGTCACTGCTTCCAGGGCCCCCTGGAGTCCCAGGATTT  
 CCAGGATTAGATGGTATCAAAGGAATCCAGGAGGACGAGGTGTGCTGCTGAAGGAAACCCAGGGT



CCCCAGGAAGTGCAGGTCTCCAGGATTTGCAGGATTTCCAGGTGACCAAGGGCATCCAGGACTTAAAGG  
GGACAAAGGGGATACACCTCTACCTGGGGCAAGTGGTAATCCAGGTGATCCTGGACTCAGAGGCCTG  
CCCGGGAGAAAGGGCTTCGATGGAACCTCTGGAGTCCAGGAGCGAAAGGACCACCAGGACCTCAGGGCG  
AACCGGCCTGAGTGAAGGAAAGGGGACCAAGGACCTCCAGGACCTCCTGGATTCCCTGGACCCCCAGG  
ACCTGCAGGACCAGCTGGACCACCAGGCTATGGACCTCAAGGAGAGCCAGGTCCAAGGGAGCCCAAGGA  
GTCCCCGGCTCCTGGGACCACCTGGAGAAGCCGGTCTTAAAGGAGAACCAGTACATCAACTCCAGATC  
TAGGTCCCCAGGCCCTCCAGGGCCCCCTGGTCAGGCTGGCCCCAGAGGTCTACCTGGTTGCCTGGACC  
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AGCCTGGATCACCTGGAGCAAAGGATCCCCAGGAAGTGCATACCAGGACCCAGGGCACCCAAGGACT  
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AGAGGTTGGAATGATGGGCTATCCTGGAACCACTGGCCCTCCGGGGCTTCTGGGAAACCAGGCTCACAG  
GGCAGCGAGGTAGCCTCGGAATCCCAGGAATGAAAGGGGAAAAAGGACGCCCAGGAGCCAAAGGCGAAC  
GAGGAGAGAAAGGAAAACCAGGGCTTCTCAAACAACACTCTTAAAGGGAGACAAAGGAGAGCCTGGACT  
TAAAGGATTTGTTGGGAATCCAGGTGAGAAAGGAAACAGAGGCAACCCAGGGTTACCAGGTCCGAAAGGC  
CTCAGGGATTGCTGGGCTACCAGGTCTCCAGGCCCTAGAGGAGATACGGGAAGCAGAGGAAATCCTG  
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AGGAATTCAGGGCTTCCAGGTCTAGCTGGAAGACCAGGCCTGACAGGGATCCATGGTCCCCAAGGAGAT  
AAGGGGGAGCCGGTTATTCCAGAAGGTGCAAGACCAGGACCAACCAGGACCAAGGGCGATCCAGGATTGC  
CAGGTGACAAAGGAAAGAAAGGAGAAAGAGGCGTACCTGGCCACCTGGACAATCGGGGCTGCCGACC  
TGATGGAGCCCCTGGGAGTCTGGGAGTCTGGTCAACCAGGAAAACCAGGTCTGCTGGTGATTTGGGT  
CTGAAAGGACAGAAAGGCTTCCAGGCCCTCCAGGAAGCACTGGCCCTCCAGGCCCTCCAGGACTCCAG  
GACTTCTGGGCAATGGGTATGAGAGGTGACCAAGGACGTGATGGAATCCTGGTCTCCAGGAGAAAA  
AGGAGAAAACAGGCTTGTGGGGCTACCCAGGCCAAAAGGGAGCCCTGGTGTACCAGGTGCCAAAGGA  
GACAGGGGAGTTCAGGCTTGTCTGGCCTTCCCGCAGGAAGGGGTTATGGGGATGTTGGACCCCAAG  
GACCCCAAGGACTGCTGGACTCCAGGGCCACCAGGTCTACCTGGGCAATTATCCTGGCCCCAAGG  
AGACAGAGGTCTTCTGGCTTAAGAGGAAATCCAGGTGAGCCAGGTCCCCCTGGACCTCCAGGACCTATC  
GGAAAAGGCATAAAAGGTGACAAAGGATTTATGGGCCACCTGGCCCCAAGGCCTGCCTGGAATGTAG  
GGGACATGGGCCACCAGGTTTCCCGGAGCACCAGGTACCCCGGTCTTCCCGGTGTGAGAGGTGATCC  
AGGATTCCTGGATTTCCAGGCATAAAAGGAGAAAAGGGTAACCTGGATTTCTTGGGCAATTGGACAT  
CCAGGACCAGTTGGGCCAAAGGACCACCAGGTCCACGTGGAACCACTGGCACTTAAAGTCATCTCTC  
TTCCGGGAAGCCAGGGCCACCTGGTGTACCTGGACAGCCAGGAATGAAAGGAGACCCTGGACCCCTGG  
ACTGCCAGGAATCCAGGACCTGTGGGCAAGAGGTAAACCAGGCAAGGATGGGAAACCAGGAATCCA  
GGACCAGCTGGTACAAAGGGCAACAAGGGCTTGAAGGACAGCAAGGCCACCTGGTCTGGATGGATTGC  
CAGGCTTAAAGGAAATCCTGGTGACAGGGGAACCGCCGCACTGGTACAAGAATGCGAGGCTTCATCTT  
CACCCGACACAGTCAAACCACGGCCATTCTTTCATGCCCTGAAGGAACACAGCCACTCTATAGTGGTTT  
TCTCTTCTTTTGTACAAGGAAACAAACGTGCACATGGACAAGACCTAGGTACTCTGGGAGCTGCCTGC  
AGCGATTACCAATGCCGTTCTTATTCTGTAACATCAATAATGTATGTAACCTTGCATCACGAAATGA  
TTATTCATACTGGCTGTCAACACCAGCTCTGATGCCAATGGACATGGCTCCAATTAGTGGCAGAGCTCTC  
GAACCCTATATTAGCAGATGCACCGTCTGTGAAGTCCAGCAATGGCCATAGCTGTTACAGTCAAACCTA  
CTGCTATCCCTCCGTGTCCCAGGACTGGGTTTCTCTCTGGAAAGGTTTTTCTTTTATTATGTTCAAG  
TGCAGGCTCTGAGGTGTGGACAAGCACTTGCCTCGCCTGGCTCCTGCCTGGAAGAATCCGAGCCAGT  
CCATTTATAGAATGCCATGGACGAGGGACATGTAACCTACTCAAACTCTACAGTTTCTGGCTGGCTT  
CGCTGAACCCAGAAAGAATGTTCCAGAAAACCTATTCATCAACTGTGAAAGCTGGAGACTTAGAGAAAAT  
CATAAGCCGCTGTGAGGTGTGCATGAAGAAAAGACATTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_007734

**Insert Size:**

5010 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\\_007734.2](#), [NP\\_031760.2](#)**RefSeq Size:**

8609 bp

**RefSeq ORF:**

5010 bp

**Locus ID:**

12828

**UniProt ID:**[Q9QZS0](#)**Cytogenetics:**

1 C5

**Gene Summary:**

Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin/nidogen.[UniProtKB/Swiss-Prot Function]