

## Product datasheet for **MR208934**

### Col13a1 (BC034164) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Col13a1 (BC034164) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Col13a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208934 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTGGCGGAGCGCACCCGCAAAGCGGCAGCCTCTGGCAGCCGGCCCTGGGGAGCTGGGCGCTCCGG  
 GGCCCGGACAGTGGCGCTGGCTGAGCAGTGCCTAGGCTGCCGAGCCCCGGGTGCTGCGGACTGCTGGC  
 CTAGCGCTGTGTTGCTGGCGCTCAGCCTGCTCGCCACTTTCGGACCGCGGAGCTGCAGGCCCGGGT  
 CTGCGCTTGAAGCAGAGCGCGGGAGCAGAGATGGAGAAAGCTATTTTGGACGAGTCAACCAACTGC  
 TGGACGAGAAATGGAAGTTCTACTCGCGTAGGCGCCGGGAAGCCCCGAAGATGTCTCCAGGATGTAAGT  
 CCCACCAGGACCTCCTGGTCCCCTGGAAGACCTGGACTCCCAGGGGACAAGGGTCCATCGGGATGCT  
 GGACGTGTGGGTGCCCTGGAGATGCGGGGATGTCCATCGTGGGCTCGAGGCCCTCGGCCAGCCTG  
 GTACCCGAGGTTTCCCTGGATCCCGGGTCCCATTGGTCTTGACGCGAGCCGGGCCACCCCGACCTAA  
 AGGGGAGATGGGCTGGTGGTCTCGAGGACAACCGGGACCTCAGGGACAAAAGGGAGAAAAGGGTCAG  
 TGTGGAGAGTACCCACACAGGGAGTACCCAGGCGCATGCTAGCAGCTCTGCGCTCCAACCCGATAATGT  
 CCCTAAAGGGGGAACAAAGTCAGACTGGCATCCAAGGCCCTCCAGGGCCACCGGGCCCCCAGGACCAAG  
 TGGCCCTCTGGGACACCCAGGACTGCCAGGGCCTATAGGGCCACCTGGTTTACCGGGGCCTCCTGGACCA  
 AAGGGAGACCCAGGGATCCAGGGCTATCATGGCCGAAGGGAGAGCGGGGCATGCCAGGAATGCCAGGCA  
 AGCACGGAGCCAAGGGGTTCTGGGATTGCCGTGGTGGATGAAGGGTGAGCCAGGGACGCCAGGAAC  
 CAAGGGTGAGAAGGGTGCAGCAGGCTCCCTGGCTCCTGGGGCAGAAGGGAGAAAAGGTGATGCTGGC  
 AATGCCATCGGAGAGGCAGGGGGAGCCTGGCCCCCGGGCTCCCTGGGCCCTGGGCCAAAGGGAG  
 AAGCTGGTGTGATGGCCAGGCTGGGCCCCCAGGACAGCAAGGAGACAAGGGGCAGCCAGGAGCAGCTGG  
 TGAACAGGGACCTCTGGCCCCAAGGGTGCCAAGGGTGAACCCGGCAAAGGAGAGATGGTGGATTATAAT  
 GGCAGCATCAACGAGGCGCTTCAGGAGATCAGGACGCTGGCCTTATGGGCTCCTGGTCTTCTGGAC  
 AAACAGGCCACCCGACCTCCAGGACTCCAGGCCAAAGGGGGAGATTGGACTGCCAGGCCCTCCAGG  
 ACACGATGGGGACAAGGGCCTCGAGGAAAACCAGGAGATGGGGCCGGCTGGTCTCAAGGACCCCCAGG  
 AAAGGATGGGCTCCAGGAATGAAGGGAGAAGTCGGACCCCCAGGAAGTCCAGGGGAGAAAAGGGGAGACA  
 GGACAAGCAGGCCCCAGGGAGAGAAAAGGAGAAGCTGGGGAGAAAAGGCGACCCGGGAGCAGAGGTTCTG  
 GGCCGCCAGGGCCAGAGGTCTCCAGGACCTCCGGGCTCCAAGTTTTCTGGACCAAGGGAGAAAGC  
 AGCCTGGAGGGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208934 protein sequence  
 Red=Cloning site Green=Tags(s)

MVAERTRKAAASGRPGELGAPGPGTVALAEQCARLPSPGCCLLALALCSLALSLLAHFRTAELQARV  
 LRLEAERGEQMEKAILGRVNQLLDEKWKFYRRRREAPKMSPGCNCPGPPGPTGRPGLPGDKGAI  
 GRVGPAGDAGMSIVGPRGPPGQPTRGFPFPGPIGLDGRPGHPGPKGEMGLVGPRGQPGPQKKEKQ  
 CGEYPHREYPPGMLAALRSNPIMSLKGEQSGTGIQPPGPPGPPGSPGLGHPGLPGPIGPPGLP  
 KGDPGIQGYHGRKGERGMPGMPGKHGAKVPGIIVAGMKGEPGTPGKKEKAAGSPGLLGQKKEKGDAG  
 NAIGGGRGEPPGGLPGPPGPKGEAGVDGQAGPPGQGDQKQPGAAGEQGPSGPKGAKGEPGKEMVDYN  
 GSINEALQEIRTLALMGPPPLPGQTGPPGPPGTPGQRGEIGLPGPPGHDGDKGPRGKPGDGAGWSSRTPR  
 KGWASRNEGRSRTPRKSRGERGDRTRPPGRERRSWGERRPSRGSWAARARGSSRTSGPPRF  
 SWTKGRS  
 RGGQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** BC034164

**ORF Size:** 1695 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:** [BC034164](#), [AAH34164](#)

**RefSeq Size:** 2957 bp

**RefSeq ORF:** 1697 bp

**Locus ID:** 12817

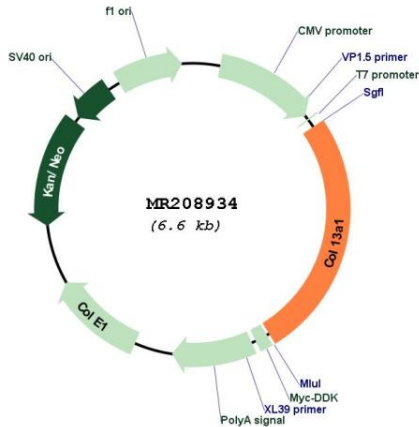
**Cytogenetics:** 10 B4

**MW:** 56.7 kDa

**Gene Summary:**

Involved in cell-matrix and cell-cell adhesion interactions that are required for normal development. May participate in the linkage between muscle fiber and basement membrane. May play a role in endochondral ossification of bone and branching morphogenesis of lung. Binds heparin. At neuromuscular junctions, may play a role in acetylcholine receptor clustering (PubMed:26626625).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208934