

Product datasheet for **MG208934**

Col13a1 (BC034164) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Col13a1 (BC034164) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Col13a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG208934 representing BC034164
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGCGGAGCGCACCCGCAAAGCGGCAGCCTCTGGCAGCCGGCCCTGGGGAGCTGGGCGCTCCGG
 GGCCCGGACAGTGGCGCTGGCTGAGCAGTGCCTAGGCTGCCGAGCCCCGGGTGCTGCGGACTGCTGGC
 CTAGCGCTGTGTTTCGCTGGCGCTCAGCCTGCTCGCCACTTTCGGACCGCGGAGCTGCAGGCCCGGGT
 CTGCGCTTGAAGCAGAGCGCGGGAGCAGAGATGGAGAAAGCTATTTTGGACGAGTCAACCACTGC
 TGGACGAGAAATGGAAGTTCTACTCGCGTAGGCGCCGGGAAGCCCCGAAGATGTCTCCAGGATGTAAGT
 CCCACCAGGACCTCCTGGTCCCCTGGAAGACCTGGACTCCCAGGGGACAAGGGTCCATCGGGATGCT
 GGACGTGTGGGTGCCCTGGAGATGCGGGGATGTCCATCGTGGGCTCGAGGCCCTCGGCCAGCCTG
 GTACCCGAGGTTTCCCTGGATCCCGGGTCCCATTGGTCTTGACGGCAGGCGGGCCACCCCGGACTAA
 AGGGGAGATGGGCTGGTGGTCTCGAGGACAACCGGGACCTCAGGGACAAAAGGGAGAAAAGGGTCAG
 TGTGGAGAGTACCCACACAGGGAGTACCCAGGCGGCATGCTAGCAGCTCTGCGCTCCAACCCGATAATGT
 CCCTAAAGGGGGAACAAAGTCAGACTGGCATCCAAGGCCCTCCAGGGCCACCGGGCCCCCAGGACCAAG
 TGGCCCTCTGGGACACCCAGGACTGCCAGGGCCTATAGGGCCACCTGGTTTACCGGGGCTCCTGGACCA
 AAGGGAGACCCAGGGATCCAGGGCTATCATGGCCGAAGGGAGAGCGGGGATGCCAGGAATGCCAGGCA
 AGCAGCGGACCAAGGGGTTCTGGGATTGCCGTGGTGGATGAAGGGTGAAGGAGGACCCAGGACAGGAA
 CAAGGGTGAGAAGGGTGCAGCAGGCTCCCTGGCTCCTGGGGCAGAAGGGAGAAAAGGTGATGCTGGC
 AATGCCATCGGAGGAGGAGGGGGAGCCTGGCCCCCGGGCTCCCTGGGCCCTGGGCCAAAGGGAG
 AAGCTGGTGTGATGGCCAGGCTGGGCCCCCAGGACAGCAAGGAGACAAGGGGAGCCAGGAGCAGCTGG
 TGAACAGGGACCTCTGGCCCCAAGGGTGCCAAGGGTGAACCCGGCAAAGGAGAGATGGTGGATTATAAT
 GGCAGCATCAACGAGGCGCTTCCAGGAGATCAGGACGCTGGCCTTATGGGCTCCTGGTCTTCTGGAC
 AAACAGGCCACCCGACCTCCAGGACTCCAGGCCAAAGGGGGAGATTGGACTGCCAGGCCCTCCAGG
 ACACGATGGGGACAAGGGGCTCGAGGAAAACCAGGAGATGGGGCCGGCTGGTCTCAAGGACCCCCAGG
 AAAGGATGGGCTCCAGGAATGAAGGGAGAAGTCCGACCCCCAGGAAGTCCAGGGGAGAAAAGGGGAGACA
 GGACAAGCAGGCCCCAGGGAGAGAAAAGGAGAAGCTGGGGAGAAAAGGCGACCCGGGAGCAGAGGTTCTG
 GGCCGCCAGGGCCAGAGGTCCTCCAGGACCTCCGGGCTCCAAGTTTTCTGGACCAAGGGAGAAAGC
 AGCCTGGAGGGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208934 representing BC034164
 Red=Cloning site Green=Tags(s)

MVAERTRKAAASGSRGPGLGAPGPGTVALAEQCARLPSPGCCLLALALCSLALSLLAHFRTAELQARV
 LRLEAERGEQQMEKAILGRVNQLLDEKWKFYRRRRREAPKMSPGCNCPPGPPGPTGRPGLPGDKGAI
 GMPGRVGPAGDAGMSIVGPRGPPGQPTRGFPGFPGPIGLDGRPGHPGPKGEMGLVGPGRQPQPQKGEK
 GQCGEYPHREYPPGMLAALRSNPIMSLKGEQSQTGIQPPGPPGPPGSPGLGHPGLPGPIGPPGLP
 PPGPKGDPGIQGYHGRKGERGMPGMPGKHGAKVPGIAGVAGMKGEPGTPGKGEKGAAGSPGLLQK
 GEKGDAGNAIGGGRGEPPGLPGPPGPKGEAGVDGQAGPPGQGDGKQPGAAGEQGPSGPKGAKGEP
 GKEMVDYNGSINEALQEIRTLALMGPPLPGQTGPPGPPGTPGQRGEIPLGPPGHGDKGPRGKPGD
 GAGWSSRTPRKGWASRNEGRSRTPRKSRGERGDRTSRPPGRERRSWGERRPGRGSWAARAGSSRTS
 GPPrfSWTKGRSRPGGQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC034164

ORF Size: 1697 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

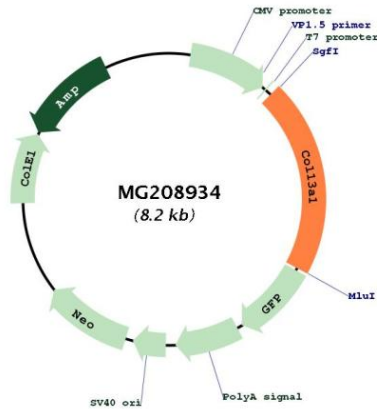
Locus ID: 12817

Cytogenetics: 10 B4

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 MG208934