

Product datasheet for **MG218889**

Col14a1 (NM_181277) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Col14a1 (NM_181277) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Col14a1
Synonyms: 5730412L22Rik; AW108078
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG218889 representing NM_181277
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGATTTGGCAGTGCAAGATGCGGGACTGGCTGATTCTAGCTTTTTGGCGGCTGCTTGTCTGCA
 CCATTGTCAGGGGACAAGTGGCTCCACCCACAAGGTTAAGATATAATGTGATTTCCCATGATAGTATACA
 GATTTTCATGGAAAGCACCAAGAGGGAAATTTGGTGGCTACAACTGCTCGTGGCTCCAGCTTCAGGAGGA
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ATGAAAATTGGAGAGACACACAGACATTGAACTGAGTGGGCTATTCCTCAATACAGAATATACAGTCA
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 CGGGAGACCAGGTTACCTGGAACCCCTGGAGAACAAGGACCCCAAGGTACCCCAAGGCTTCCAGGAAAT
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 TCTGGCCAGCCTGGGTATTGTGACCCCTCCTCGTCTGCTTATGGCGTTGGAGTGTCCCATCTGATC
 AGCCTGAGTTCACACCGGTCCAGGACGAGCAGGAGGCCATGGATCTGTGGAGCCGAGGCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218889 representing NM_181277
 Red=Cloning site Green=Tags(s)

MMIWQCKMRDWLILAFLLAAACFCTIVRGQVAPPTRLRYNVISHDSIQISWKAPRGKFGGYKLLVAPASGG
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 RNLRESGVLEFAIGVKNADLSELQEIASEPSTHYNNVAEFDLMHTVVESLTRTVCSRVEEQDKEIKASA
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 GKISGYRIVYTSADGTEINEVEVDPIITTFPLKGLTPLTEYSIAIFSIYEEGQSLPLVGEFTTEEVAQQY
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 NFLYSTVGALDKIGADGTQVAMVQFTDDPRTEFKLDSYKTKETLLDAIRHISYKGGNTKTGAIKHVRDT
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 DDFDAFKKIEDELITFVCETASATCPMVHKDGVLDLAGFKMEMFGLVEKDFSAVEGVSMEPGTFNLFPCY
 QIHKDALVSQPTKYLHPEGLPSDYTMSFLFRILPDTPEPFALWEILNKNSEPLVGIILDNGGKTLTYFN
 YDYTGDFQTVTFEGPDIRKMFYGSFHKLVVVSHTLAKVVVDCKEVGQKAINASANITSDGVEVLGRMVR
 SRGPNNGNSAPFQLQMFDIVCSTSWASKDRCCLPGLRDEESCPDLPRSCSCSETNEVALGPAGPPGGPGL
 RGPKGQQGEGQPKGPEGPRGETGPAGPQPPGPQPSGLSIQGMGMPGDKGDKGDAAGLPGPQGVPGGVG
 SPGRDGSPPGQRFPGKDGSSGPPGPPGPIGIPGAPGVPGITGSMGPQGALGPPGVPGAKGERGERGDLQS
 QAMVRAVARQVCEQLIQSHMARYTAILNQIPSQSSSIRTIQGPPGEPGRPGSPGTPGEQPPGTPGFPGN
 AGVPGTPGERGLTGKGEKGNPIGTQGPGRPPGAPGSGESRPGSPGPPGSPGPRGPPGHLGVPGPQGP
 SQPGYCDPSSCSAYGVGVSHPDQPEFTPVQDEQEAMDLSAGI

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_181277
ORF Size:	5382 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:	<ol style="list-style-type: none">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_181277.4
RefSeq Size:	6465 bp
RefSeq ORF:	5385 bp
Locus ID:	12818
Cytogenetics:	15 D1
Gene Summary:	Plays an adhesive role by integrating collagen bundles. It is probably associated with the surface of interstitial collagen fibrils via COL1. The COL2 domain may then serve as a rigid arm which sticks out from the fibril and protrudes the large N-terminal globular domain into the extracellular space, where it might interact with other matrix molecules or cell surface receptors (By similarity).[UniProtKB/Swiss-Prot Function]