

Product datasheet for **MG223027**

Col6a1 (NM_009933) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Col6a1 (NM_009933) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Col6a1
Synonyms: A1747156; Col6a-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG223027 representing NM_009933
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGCTGGCCACGCTCTGCTGCCCTGCTGCTACAAGCTGCTGGTGGCCACACAGGACATCCAGG
GCTCCAAAGCGATTGCCTTCCAAGACTGCCCTGTGGATCTATTCTTCGTGCTCGACACCTCGGAGAGTGT
GGCCTTGAGGCTGAAACCTTATGGGGCCTTGGTGGACAAGGTGAAGTCTTCACTAAGCGCTTCATTGAC
AACCTGAGAGACAGGTAACCGGTGTGACCGCAACCTGGTTTGAATGCGGGTGCCTGCACTACAGTG
ACGAGGTGGAGATCATCCGAGGGCTCACGCGCATGCCAGTGGCCGCGATGAGCTCAAGGCCAGCGTGGA
TGCGGTCAAGTACTTCGGGAAAGGCACCTACACCGACTGCGCCATTAAGAAGGGGCTGGAGGAGCTGCTC
ATAGGGGGCTCCACCTGAAGGAGAACAAGTACTTGATCGTGGTACCGACGGGCATCCTCTAGAGGGCT
ACAAGGAACCATGCGGGGCTGGAAGATGCAGTAAATGAGGCCAAACACCTGGGCATCAAGGTCTTTTC
TGTGGCCATCACACCTGACCACCTGGAGCCACGTCTAAGTATCATTGCCACAGACCACACATACCGGCGC
AATTTACGCGCAGCTGACTGGGGCATAGCCCGGATGCAGAAGAGGTATCAGCCAGACCATTGACACCA
TTGTGGACATGATTAATAAACAAGTGAACAAGTGTGTTGTTCTTTGAGTGCCAGGCTGCCAGAGGACC
TCCAGGGCCCCGAGGCGACCTGGGTATGAGGGGAGCGAGGAAAGCCAGGTCTTCCGGGAGAGAAGGGA
GAAGCTGGAGACCCTGGACGACCTGGGGATCTTGACCAGTCCGGTACCAGGGTATGAAGGGAGAAAAGG
GGAGCCGTGGAGAGAAGGGTCCAGAGGACCGAAAGGTTACAAGGCGAGAAAGGCAAGCGGAAATCGA
CGGGTTCGACGGCATGAAGGGAGAGACGGGTACCCAGGACTACCGGGCTGCAAGGGCTCCCCAGGATTT
GATGGCATTCAAGGACCCCGGGTCCCAAGGGTATGCTGGTGCCTTTGGGATGAAGGGAGAAAAGGGTG
AAGCTGGAGCAGACGGTGAAGGCTGGGAGACCAGGGAACCTCAGGGTACCTGGAGATGAGGGTATCCTGG
AGAGCCTGGTCCCCCGGAGAAAAGGAGAGGCGGATGAAGGAAATGCTGGCCAGACGGTGGCCCT
GGAGAGAGGGTGGCCCTGGTGAAGAGGACCTCGGGGACCCCTGGTGTGAGAGGACCAAGGGGAGACC
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GGCTGGCCCCATTGGACCTAAAGGATACCGAGGTGATGAGGGTCTCCAGGTCTGAGGGCTCAGAGGA



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GCCCCAGGACCTGTTGGTCTCCTGGAGACCCCGACTGATGGGTGAGAGAGGTGAGGATGGACCACCAG
 GAAACGGCACGGAAGGTTTCCCCGGCTTCCCTGGGTATCCAGGCAACAGAGGCCCTCCTGGGCTAAATGG
 CACAAAAGGCTACCCTGGCCTCAAGGGGGATGAGGGTGAAGTGGGAGACCCAGGAGAGGATAACAACGAC
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 CAGGGCAGTCTCACGCGGGCTGGTACAGTACAGCCACAACCAGATGCAAGAGCACGTGGACATGCGGAG
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 CATTACAGTAGTTTCTGTGGAAATCAAGGATGTGTTTGGCTTTGTGGCGGGCTCCGACCAGCTCAATGTC
 ATTTCTGCCAAGGCTTATCGAAGGTCGGCCAGGTATCTCCCTGGTGAAGGAGAACTATGCAGAGCTTC
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 AACTTCGAAACCACCAAGGTCTTCGCAAGCGCCTAGCTGAGCGATTCTGTGTCAGAGGCAGGGCGGATC
 CTTCACAGGATGTGCGGGTGGCCGTGGTACAGTATAGTGGCCAGGGGAGCAACGCCAGGTGCGGGCGG
 TCTTCAGTTCTTACAGAATTACACAGTGTGCGGACGCTCTGTGGACAGCATGGATTTTCAACGACGCC
 ACAGAGCTCAACGATGCTCTGAGCTACGTGACTCGTTTACCAGGGAAGCCTCGTCAGGTGCCACCAAGA
 AGAGAGTGTGTTGTTTTCAGACGGCAACTCTCAGGGGGCCACAGCAGAGGCCATTGAGAAGGCTGTGCA
 GGAGGCCAGCGTGCAGGCATTGAGATCTTTGTGGTGGTGGTGGGACCCAGGTGAACGAGCCCCACATC
 CGTGTGCTTGTACTGGCAAGACTGCAGAGTACGACGTGGCCTTTGGCGAGCGCCACCTATTCGTGTAC
 CAAACTACCAGGCCCTGCTACGTGGCGTACTCTACCAGACAGTCTCCAGGAAGGTGGCACTGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223027 representing NM_009933
 Red=Cloning site Green=Tags(s)

MRLAHALLPLLLQACWVATQDIQGSKAIAFQDCPVDLFFVLDTSESVALRLKPYGALVDKVKSFTRKRFID
 NLRDRYRCDRNLVWNAGALHYSDEVEIIRGLTRMPSGRDELKASVDAVKYFGKGTYTDCAIKKGLEELL
 IGGSHLKENKYLIVVTDGHPLEGYKEPCGGLEDAVNEAKHLGIKVFVAITPDHLEPRLSIIATDHTYRR
 NFTAADWGHSDAEVVISQTIIDTIVDMIKNNVEQVCCSFECQAARGPPGPRGDPGYEGERGKPLGPEK
 EAGDPGRPGDLGPVGYQGMKGEKGSRGEKGSRGPKGYKGEKGRGIDGVDGMKGETGYPLPGCKGSPGF
 DGIQGGPPGPKGDAGAFGMKGEKGEAGADGEAGRPNGSGSPGDEGDPGEPGPPGKGEAGDEGNAGPDGAP
 GERGGPGERGPRGTPGVRGPRGDPGEAGPQGDQGREGPVGI PGDSGEAGPIGPKGYRDEGPPGPELGR
 APGPVGPDPGLMGERGEDGPPNGTEGFPFGYGNRGPPLNGTKYPLKGDGEVGDPEGEDNND
 ISPRGVKGAQYRGPEGPQPPGHVGPDPDECEILDIIMKMCSCCECTCGPIDILFVLDSSESIGLQNF
 EIAKDFI IKVIDRLSKDELVKFEPGQSHAGVVQYSHNQMQEHVDMRSPNVRNAQDFEAVKKLQWMAGGT
 FTGEALQYTRDRLLPPTQNNRIALVITDGRSDTQRDTPPLSVL CGADIQVVSVGIKDVFGFVAGSDQLNV
 ISCQGLSQGRPGISLVKENYAELDDGFLKNITAQICIDKCPDYTCPIITFSSPADITILLDSSASVGS
 NFETTKVFAKRLAERFLSAGRADPSQDVRVAVVQYSGGQQQPGRAALQFLQNYTVLASSVDSMDFINDA
 TDVNDALSYVTRFYREASSGATKKRVLLFSDGNSQGATAEAIEKAVQEAQRAGIEIFVVVVGPPQVNEPHI
 RVLVTGKTAEYDVAFGERHLFRVFNQYALLRGLVLYQTVSRKVALG

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1578_a06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_009933

ORF Size: 3075 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.

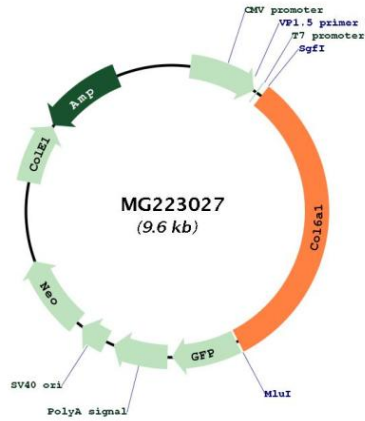
RefSeq: [NM_009933.4](#), [NP_034063.1](#)

RefSeq Size: 3990 bp

RefSeq ORF: 3078 bp

Locus ID: 12833
 UniProt ID: [Q04857](#)
 Cytogenetics: 10 39.71 cM
 Gene Summary: Collagen VI acts as a cell-binding protein.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG223027