

Product datasheet for MR223027

Col6a1 (NM_009933) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Col6a1 (NM_009933) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Col6a1
Synonyms: A1747156; Col6a-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR223027 representing NM_009933
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGCTGGCCACGCTCTGCTGCCCTGCTGCTACAAGCCTGCTGGTGGCCACACAGGACATCCAGG
GCTCCAAAGCGATTGCCTTCCAAGACTGCCCTGTGGATCTATTCTTCGTGCTCGACACCTCGGAGAGTGT
GGCCTTGAGGCTGAAACCTTATGGGGCCTTGGTGGACAAGGTGAAGTCTTCACTAAGCGCTTCATTGAC
AACCTGAGAGACAGGTAACCGGTGTGACCGCAACCTGGTTTGAATGCGGGTGCCTGCACTACAGTG
ACGAGGTGGAGATCATCCGAGGGCTCACGCGCATGCCAGTGGCCGCGATGAGCTCAAGGCCAGCGTGGA
TGCGGTCAAGTACTTCGGGAAAGGCACCTACACCGACTGCGCCATTAAGAAGGGGCTGGAGGAGCTGCTC
ATAGGGGGCTCCACCTGAAGGAGAACAAGTACTTGATCGTGGTACCGACGGGCATCCTCTAGAGGGCT
ACAAGGAACCATGCGGGGCTGGAAGATGCAGTAAATGAGGCCAAACACCTGGGCATCAAGGTCTTTTC
TGTGGCCATCACACCTGACCACCTGGAGCCACGTCTAAGTATCATTGCCACAGACCACACATACCGGCGC
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TTGTGGACATGATTAATAAACAAGTGAACAAGTGTGTTGTTCTTTGAGTGCCAGGCTGCCAGAGGACC
TCCAGGGCCCCGAGGCGACCTGGGTATGAGGGGAGCGAGGAAAGCCAGGTCTTCCGGGAGAGAAGGGA
GAAGCTGGAGACCCTGGACGACCTGGGGATCTTGACCAGTCCGGTACCAGGGTATGAAGGGAGAAAAGG
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GCCCCAGGACCTGTTGGTCTCCTGGAGACCCCGACTGATGGGTGAGAGAGGTGAGGATGGACCACCAG
 GAAACGGCACGGAAGGTTTCCCCGGCTTCCCTGGGTATCCAGGCAACAGAGGCCCTCTGGGCTAAATGG
 CACAAAAGGCTACCCTGGCCTCAAGGGGGATGAGGGTGAAGTGGGAGACCCAGGAGAGGATAACAACGAC
 ATTTACCCCGTGGGGTCAAAGGGGCAAAGGGATACCGAGGCCAGAAGGACCCAGGGACCTCCAGGAC
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 CCCCACGTCGCAACGCCCAGGACTTCAAGAAGCTGTCAAGAAGCTACAATGGATGGCTGGTGGCACA
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 TCTTACGTTCTTACAGAATTACACAGTGTGCGGACGCTCTGTGGACAGCATGGATTTTCAACGACGCC
 ACAGAGCTCAACGATGCTCTGAGCTACGTGACTCGTTTACC GGGAAGCCTCGTCAGGTGCCACCAAGA
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 CGTGTGCTTGTACTGGCAAGACTGCAGAGTACGACGTGGCCTTTGGCGAGCGCCACCTATTCGTGTAC
 CAAACTACCAGGCCCTGCTACGTGGCGTACTCTACCAGACAGTCTCCAGGAAGGTGGCACTGGGC

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223027 representing NM_009933
 Red=Cloning site Green=Tags(s)

MRLAHALLPLLLQACWVATQDIQGSKAI AFQDCPVDLFFVLDTSSEVALRLKPYGALVDKVSFTKRFID
 NLRDRYRCDRNLVWNAGALHYSDEVEIIRGLTRMPSGRDELKASVDAVKYFGKTYTDCAIKKGLEELL
 IGGSHLKENKYLIVVTDGHPLEGYKEPCGGLEDAVNEAKHLGIKVF SVAITPDHLEPRLSIIATDHTYRR
 NFTAADWGHSDAEVVISQTI DTIVDMIKNNVEQVCCSFECQAARGPPGPRGDPGYEGERGKPLPGEKG
 EAGDPGRPGDLGPVGYQGMKGEKGSRGEKGSRGPKGYKGEKGRGIDGVDGMKGETGYPLPGCKGSPGF
 DGIQPPGPKGDAGAFGMKGEKGEAGADGEAGRPNGSPGDEGDPGEPGPPGEKGEAGDEGNAGPDGAP
 GERGGPGERGPRGTPGVRGPRGDPGEAGPQGDQGREGPVGI PGDSGEAGPIGPKGYRGDEGPPGPELGR
 APGPVGPDPGLMGERGEDGPPNGTEGFPGFPGYPGNRPPGLNGTKYPLKGDEGEVGDPEGEDNND
 ISPRGVKGAKGYRGEPPGQPPGHVGPDPDECEILDIIMKMCSCCECTCGPIDILFVLDSSSEISGLQNF
 EIAKDFI IKVIDRLSKDELVKFEPGQSHAGVVQYSHNQMQEHVDMRSPNVRNAQDFKEAVKQLQWMAGGT
 FTGEALQYTRDRLLPPTQNNRIALVITDGRSDTQRDTPLSVLCGADIQVVSVGIKDVFVAGSDQLNV
 ISCQGLSQGRPGISLVKENYAELLDGFLKNITAIQICIDKCPDYTCPIITFSSPADITILLDSSASVGS
 NFETTKVFAKRLAERFLSAGRADPSQDVRVAVVQYSGGQQQPGRALQFLQNYTVLASSVDSMDFINDA
 TDVNDALSYVTRFYREASSGATKKRVLLFSDGNSQGATAEAIKAVQEAQRAGIEIFVVVVGPPQVNEPHI
 RVLVTGKTAEYDVAFGERHLFRVPNYQALLRGVLYQTVSRKVALG

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9101_d02.zip

Restriction Sites:

Sgfl-Mlul

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](#)

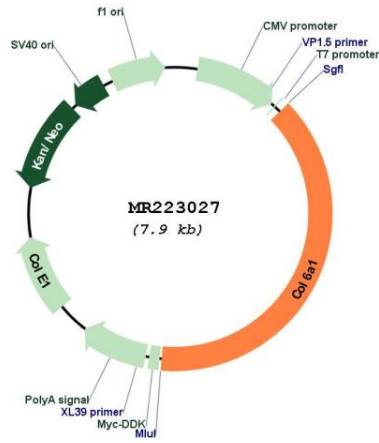
RefSeq Size: 3990 bp

RefSeq ORF: 3078 bp

Locus ID: 12833

UniProt ID: [Q04857](#)
 Cytogenetics: 10 39.71 cM
 MW: 108.5 kDa
 Gene Summary: Collagen VI acts as a cell-binding protein.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223027