

Product datasheet for MR211493

Col6a2 (NM_146007) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Col6a2 (NM_146007) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Col6a2
Synonyms:	Col6a-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211493 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGACTACTATCAAGATGCTCCAGGGTCTCTTTCTGTGCTCCTGATTGGGGGACTCTTGGGGTCTCC
ATGCCAGCAGCAGGAAGCCATCTACCCAGGAGCAGGAAGCTGTCTACCAGACATCTCCACCTGA
AAGGAACAACAATTGTCCAGAGAAGGCCGACTGCCAGTCAACGTGTATTTCTGTTGGACACCTCAGAG
AGCGTGGCCATGCAGTCCCCGACAGACAGCCTGCTCTATCATATGCAGCAGTTCTGACCGAGTTTATCA
GCCAGTGCAGAACGAGTTCTACCTGGACCAGGTGGCCCTGAGCTGGCGTACGGTGGTCTACACTTCTC
GGACCAAGTGGAGGTGTTTCAGCCACCGGGCAGTGACCGGGCCTCCTTCACTAAGAGCCTACAAGGCATC
CGCTCCTTCCGCAGGGGACCTTCACTGACTGTGATTGGCTAACATGACGCAGCAGATCCGGCAGCAGC
TAGGCAAGGGGGTGGTCAACTTCGCCGTGGTCACTGACGGCCACGTACGGGAGTCCGTGTGGGGG
CATCAAGATGCAGGCTGAGCGTGCCCGTGAAGAGGGCATCCGGCTCTTCGCTGTGGCCCCAACAGGAAC
CTAAACGAACAAGGCCTGAGGGACATCGCTAACTCTCCACATGAGCTCTACCGTAACAACACGCCACCA
TGCGACCCGACTCTACCGAGATTGACCAGGACACCATCAACCGCATCATCAAGGTGATGAAACATGAAGC
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CAGAAGGGTGCCAAGGGCAACATGGGTGAACCAGGAGAGCCTGGACAGAAAGGACGACAGGGAGACCCCG
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TCGAGGCTGGTGGAGAAGTTGCAGTAAAGGAGCCAAGGGAGACAGAGTTTGGCTGGACCCAGAGGC



CCCCAGGGGGCTCTTGGAGAGCCAGGAAAGCAGGGATCTCGAGGAGACCCTGGTACGCCGGACCTCGAG
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 CAGGTTTATCCGCTGGATCTGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211493 protein sequence
 Red=Cloning site Green=Tags(s)

MTTIKMLQGPLSVLLIGLLGVLHAQQQEAI SPQEQEAVSPDISTTERNNNCPKADCPVNVYFVLDTSE
 SVAMQSPDLSLLYHMQQFVQFISQLQNEFYLDQVALSWRYGGLHFSDQVEVFSPPGSDRASFTKSLQGI
 RSFRRGTFTDCALANMTQQIRQHVKGKGVNFAVVIDGHVTVGSPCGGIKMQAERAREEGIRLFAVAPNRN
 LNEQGLRDIANSPEL YRNNYATMRPDSTEIDQDTINRIKVMKHEAYGECYKVSCL EIPGPHGPKGYRG
 QKGAKGNMGEPEPGQKGRQDPIEGPIGFPKGVPGFKGEKGEFGSDGRKGAPLAGKNGTDGQKKGK
 LGRI GPPGCKGDPGSRGPDGYPGEAGSPGERDQGAKGDSGRPGRRGPPGDPGDKGSKGYQNNGAPGSP
 GVKGGKGGPGPRGPKGEPGRRGDPGTGGPGSDGPKGEKGDPPGEPGRGLAGEVSGKAKGDRGLPGPRG
 PQGALGEPGKQGSRGDPDAGPRGDSGQPGKGDPPGPF SYPGPRGTPGEKGEPPGPEGGRGDFGLK
 GTPGRKGDKEPADP GPPGEPGPRGPRGIPGPEGEPGPPGDPGLTECDVMTYVRETCCDCCEKRCGALD
 VVFVIDSSESIGYTNFTLEKNFVINNVNRLGAIKDPKSETGTRVGVVQYSHEGTFEAIRLDDERVNSLS
 SFKEAVKNLEWIAGGTWTPSALKFAYNQLIKESRRQKTRVFAVVIDGRHDPRDDDLNLRALCDRDTVT
 AIGIGDMFHETHESNLYSIACDKPQQVRNMTL FSDLVAEKFIIDMEDVLCPPDPQIVCPQLPCQTEL YVA
 QCTQRPDIVFLLDGSERLGEQNFHKVRRFVEDVSRRLTLARRDDPLNARMALLQYGSQNNQVAFPLT
 YNVTTIHEALERATYLNFSHVGTGIVHAINNVVRGARGGARRHAELSFVFLTDGVTGNDLSLEESVHSMR
 KQNVVPTVVAVGGDVMVLT KISLGDRAAIFREKDFDSLAAQPSFFDRFIRWIC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_146007

ORF Size: 3105 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_146007.2](#)

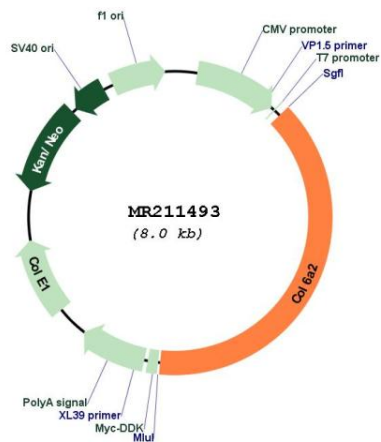
RefSeq Size: 3729 bp

RefSeq ORF: 3105 bp

Locus ID: 12834

UniProt ID: [Q02788](#)
 Cytogenetics: 10 39.32 cM
 MW: 110.3 kDa
 Gene Summary: Collagen VI acts as a cell-binding protein.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211493