

## Product datasheet for **MG211493**

### Col6a2 (NM\_146007) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Col6a2 (NM_146007) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Col6a2
Synonyms:	Col6a-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211493 representing NM_146007 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTACTATCAAGATGCTCCAGGGTCTCTTTCTGTGCTCCTGATTGGGGGACTCTTGGGGTCTCC  
ATGCCAGCAGCAGGAAGCCATCTACCCAGGAGCAGGAAGCTGTCTACCAGACATCTCCACCTGA  
AAGGAACAACAATTGTCCAGAGAAGGCCGACTGCCAGTCAACGTGTATTTCTGTTGGACACCTCAGAG  
AGCGTGGCCATGCAGTCCCCGACAGACAGCCTGCTCTATCATATGCAGCAGTTCTGACCGAGTTTATCA  
GCCAGTGCAGAACGAGTTCTACCTGGACCAGGTGGCCCTGAGCTGGCGTACGGTGGTCTACACTTCTC  
GGACCAAGTGGAGGTGTTTCAGCCACCGGGCAGTGACCGGGCCTCCTTCACTAAGAGCCTACAAGGCATC  
CGCTCCTCCGACAGGGCACCTTCACTGACTGTGATTGGCTAACATGACGCAGCAGATCCGGCAGCAGC  
TAGGCAAGGGGGTGGTCAACTTCGCCGTGGTCACTGACGGCCACGTACGGGAGTCCGTGTGGGG  
CATCAAGATGCAGGCTGAGCGTGGCCGTGAAGAGGGCATCCGGCTCTTCGCTGTGGCCCCAACAGGAAC  
CTAAACGAACAAGGCCTGAGGGACATCGCTAACTCTCCACATGAGCTCTACCGTAACAACACGCCACCA  
TGCGACCCGACTTACCGAGATTGACCAGGACACCATCAACCGCATCATCAAGGTGATGAAACATGAAGC  
CTATGGAGAGTGTACAAGGTGAGCTGCCTGGAGATTCCTGGACCCACGGACCCAAGGGTTACCGAGGA  
CAGAAGGGTGCCAAGGGCAACATGGGTGAACCAGGAGAGCCTGGACAGAAAGGACGACAGGGAGACCCCG  
GCATCGAAGGCCCATTTGGATTCCCGGGACCGAAGGGTGTGCTGGCTTCAAGGGAGAGAAGGGTGAATT  
TGGATCGGATGGTCGGAAGGGAGCGCCTGGCCTAGCTGGCAAGAATGGAACAGATGGACAGAAAGGGCAAA  
CTGGGCCGATTGGCCCTCTGTTGCAAGGGAGACCCCGGAAGTCCGGGCCCCGATGGATACCCTGGAG  
AAGCTGGAAGCCAGGCGAGCGAGGAGACCAGGGTGCCAAGGGGGACTCTGGCCGCCAGGACGCAGGGG  
ACCACCAGGAGATCCTGGAGACAAAGGAAGCAAGGGATATCAAGGCAACAACGGAGCCCCGGAAGCCCCG  
GGAGTGAAGGAGGCAAGGGAGGGCCTGGCCCCGTGGACCAAAAGGAGAGCCTGGACGCAGAGGAGACC  
CCGGGACCAAGGGCGGCCCGGCAGCGATGGTCCAAGGGAGAGAAGGGAGACCCCTGGTCTGAGGGGCC  
TCGAGGCTGGTGGAGAAGTTGCCAGTAAAGGAGCCAAGGGAGACAGAGTTTGGCTGGACCCAGAGGC



[View online >](#)

```

CCCCAGGGGGCTCTTGGAGAGCCAGGAAAGCAGGGATCTCGAGGAGACCCCTGGTACGCCGGACCTCGAG
GGGATTACAGGACAGCCGGGCCCAAGGGCGATCCTGGAAGGCCTGGATTACCTACCCGGGACCTCGAGG
GACACCCGGTGAAAAAGGCGAGCCCGGTCCACCAGGCCCTGAGGGAGGCCGAGGAGACTTTGGTCTGAAA
GGAACACCCGGACGGAAGGGAGATAAAGGGGAGCCAGCTGATCCTGGTCCCCCTGGTGAACCTGGCCCTC
GGGGCCCAAGAGGAATCCCAGGACCTGAGGGAGAACCAGGCCCTCCAGGAGACCCCTGGTCTCACGGAATG
TGATGTGATGACCTATGTGAGGGAGACCTGTGGATGCTGCGACTGTGAGAAGCGTGTGGTGCCTGGAT
GTGGTCTTCGTCATCGACAGTTCTGAGAGTATTGGCTACACCAACTTACCTTGGAGAAGAACTTTGTCA
TCAATGTGGTCAACAGGCTAGGTGCCATTGCCAAGGACCCCAAGTCAGAAACAGGCACACGTGTGGGTGT
GGTGACGTACAGCCACGAGGGCACCTTTGAGGCCATCCGGCTGGACGACGAGCGAGTCAACTCCCTGTCT
AGTTTTCAAGGAGGCTGTCAAAAACCTTGAATGGATCGCCGGTGGCACTTGGACGCCCTCTGCCCTCAAGT
TTGCCATAATCAGCTCATCAAAGAAAGCCGGCCAGAAAGACCCGGGTGTTCCGAGTGGTATCACGGA
TGGGCGCCATGACCCCGAGATGATGACCTCAATCTTCGGGCACTGTGTGACCGAGATGCTACTGTGACA
GCCATTGGCATCGGTGACATGTTCCACGAGACTCATGAGAGTGAACCTCTACTCCATTGCCTGTGACA
AGCCACAGCAAGTGCACAACATGACGCTGTTCTCTGACCTGGTGGCCGAGAAGTTCATCGATGACATGGA
AGACGTCTTTGTCCAGACCCCGAGATCGTGTGTCCAGAACTTCCCTGCCAAACAGAGCTCTATGTGCC
CAGTGCACACAACGGCCCGTGGACATTGCTTCTCTGCTGGATGGCTCGGAGCGGCTGGGCGAGCAGAACT
TCCACAAGGTGCGGCGCTTCGTGGAGGACGTGTCCCGGCGCTGACTCTGGCCCGGAGGGATGATGACCC
ACTCAACGCCCGCATGGCTCTGTTGCAATATGGCAGCCAGAATCAGCAACAGGTGGCCTTCCCCTGACC
TACAACGTGACCACCATCCACGAGGCCCTGGAGAGGGCCACCTACCTCAATTCCTTTTCTCACGTGGGCA
CGGGCATCGTACACGCCATCAACAACGTGGTGGGGGGGACGGGGTGGGGCGGGCGCCACGCAGAGCT
CTCCTTCGTCTTCTCACGACGGTGTACCCGGCAATGACAGCCTGGAGGAGTCACTGACTCTATGCGT
AAGCAGAACGTGGTGGCCACTGTGGTGTGGTGGGGCGGACGTGGACATGGATGTGCTTACTAAGATCA
GCCTGGGTGACAGGGCGGCATCTCCGGGAGAAAGACTTTGACAGTCTGGCCAGCCAGCTTCTTTGA
CAGGTTTCATCCGCTGGATCTGT
    
```

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG211493 representing NM\_146007  
 Red=Cloning site Green=Tags(s)

```

MTTIKMLQGPLSVLLIGLLGVLHAQQQEAI SPQEQEAVSPDISTERNNNCPEKADCPVNVYFVLDTSE
SVAMQSPDLSLLYHMQQFVFPQFISQLQNEFYLDQVALSWRYGGLHFSDQVEVFSPPGSDRASFTKSLQGI
RSFRRGFTDCALANMTQQIRQHVKGVVNFVAVITDGHVTGSPCGGIKMQAERAREEGIRLFAVAPNRN
LNEQGLRDIANSPEL YRNNYATMRPDSTEIDQDTINRI IKVMKHEAYGECYKVSCL EIPGPHGPKGYRG
QKGAAGNMGEPGEPGQKGRQDGP IEGPIGFPGPKVPGFKGEKGEFGSDGRKGAPLAGKNGTDGQK GK
LGRIGPPGCKGDPGSRGPDGYPGEAGSPGERGDQGA KGDSGRPGRRGPPGDPGDKGSKGYQGNNGAPGSP
GVKGGKGGPGRGPKGEPGRRGDPGTGGPGSDGPKGEKGDGPGEPRGLAGEVGSKGAKGDRGLPGPRG
PQGALGEPGKQGSRGDPDAGPRGDSGQPGKGDPRPGF SYPGPRGTPGEKGEPPGPEGGRGDFGLK
GTPGRKGDKEP ADPGPPGEPGPRGPRGIPGPEGEPGPPGDPGLTECDVMTYVRETCGCCDCEKRCGALD
VVFVIDSSESIGYTNFTLEKNFVINVVNRLGAIKDPKSETGTRVGVVQYSHEGTFEAI RLDDEVRNLSL
SFKEAVKNLEWIAGGTWTPSALKFAYNQLIKESRRQKTRVFVAVITDGRHDPRDDDLNLRALCDRDTVT
AIGIGDMFHETHESENL YSIACDKPQQVRNMTLFS DLVAEKFIIDMEDVLC PDPQIVCP ELPQTELYVA
QCTQRVDIVFLLDGSERLGEQNFHKVRRFVEDVSRR LTLARRDDPLNARMALLQYGSQNNQQVAFPLT
YNVTTIHEALERATYLNFSHVGTGIVHAINNVVRGARGGARRHAELSFVFLTDGVTGND SLEESVHSMR
KQNVVPTVVAVGGDMDVLT KISLGDRAAIFREKDFDSL AQPSSFDRFIRWIC
    
```

TRTRPLE - GFP Tag - V

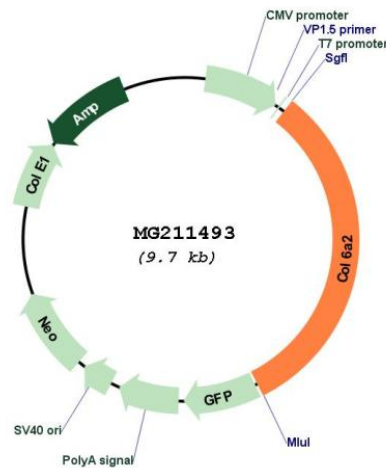
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_146007

ORF Size: 3102 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_146007.2</a>
<b>RefSeq Size:</b>	3739 bp
<b>RefSeq ORF:</b>	3105 bp
<b>Locus ID:</b>	12834
<b>UniProt ID:</b>	<a href="#">Q02788</a>
<b>Cytogenetics:</b>	10 39.32 cM
<b>Gene Summary:</b>	Collagen VI acts as a cell-binding protein.[UniProtKB/Swiss-Prot Function]