

Product datasheet for MR221630

Col5a3 (NM_016919) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Col5a3 (NM_016919) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Col5a3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221630 representing NM_016919 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAAGCTGCCGGAGACTGGATCAGCTTCAGGCCGGCCTCTGCCTGCTCCTGGCCTCCCTGCAGCTCG
TGTCTGGACGCTGGCTGCAGAACCTGTGGACGTACTGGAAGCCTGGGGTGTGCATAGAGACCAGGCTGG
GGTGGCTGAAGGGCCTGGCTTCTGCCCCCTGAGGATCCACAGGGTGACCGAGCATTTCAGGGTGGGCAAG
TCCAGCCTTCTCAGTGTCCCCACGTGGCAGCTCTCCAGATGGGCATTTTCTGAGAAGTTTCTGTGTC
TGCTCACACTGAGGGCCCAGCCAGCCAATCAGTCTGCTTCTGTCTATTTATGATGAGAAGGGTGTCCG
GCAGCTGGGGCTGGCACTGGGGCCAGCTCTGGGCCTCCTTGGTGACTCCTTCAGGCCCTCCCAAGCAA
GTCAACATTATGGATGGCAGGTGGCACCCTGTGGCAGTCAGCATCAGTGGTAACAAGGTGACCCTGGTGG
TTGACTGTGAACCGCAGCCCCAACATTTGGTCAGGGCCTCGGTTTATAAGTACAGCTGGACTCACTGT
GATGGGAACCCAGGACACCAGGGAAGAGTCTTTTGGGGAGACATCCAGGAGCTGCTGTTAATTCAGAC
CCTCAGGCTGCCTTCCAGGCCTGTGAGAGCTACCTCCCTGGTTGTGAAACCCTCGATTCCACAACACAG
GGGCCCCAAAGACGATGAACCAGAAACCCTGCCCTCGTCGAAAGGGCAAAGGGAAGAAAAAAGG
GCGGGGTGAAAGGGCAAGGGAAGAAAACAAGGAGACCTCAGAGCTGAGTCCGACCCTGGTGCC
CCTGAGAACCAGACCTCCCTCCACATCCCTGAGACAGAGAAGACAGTTCCCCACCTGCCTCTGACTCCCA
CACCTCTGGCCATCACCACCACTGTACGATTGGACAAAATGCCACAGTCTCGCAGGGGTTGGACTCCGG
TACTGAAACCGAGCAGACGACTCCAGAGGTGGACTCTACTGAGGAGGGTGAAGGAGGTGGCCCCACCATG
GGCCCCAAGTTCCGGGCAGCAGAGCAGTCTTACAGACTGAGTTCAGATCTTTCTGGTGTGGAGAAA
AGGGAGCGAAAGGAGAGCCTGCGACAGTAGAGCAGGGACAGCAGTTTGGGGGCTGCAGGAGCTCCAGG
ACCCCGGGGAATATCTGGTCTTTCAGGCCTCCTGGGCCCTCCGGGCTTCCCTGGGGACCCTGGTCTACCG
GGTCTGCGGGCCTCCAGGAATCCAGGCATCGATGGAGCCCGGGCCTGCCGGCACAGTGATTATGA
TGCCGTTCCATTTGCAAGCAGCTCGATGAAGGGACCCCAAGTGTCTTCCAGCAGGCCACAGGCCAGGC
AGTATTGCAACAGGCTCAGCTGCATGAAAGGGCCCCCTGGTCCAGTAGGGCTCAGTGGCGCCAGGC
CCTGTGGCCTCCCTGGATATCCAGGTCTGAAAGGTGAACTGGGGAAGTGGGGCCACAGGGCCCCCGAG
GATTACAGGGCCTCCTGGCCTCCTGGACGGGAAGCAAGACAGGCCGAGCTGGAGCAGATGGGGCTCG



[View online »](#)

GGGGCTCCCGGGAGACACAGGACCTAAGGGTGACAGGGGCTTTGATGGCCTGCCCGGGCTGCCTGGTGAG
AAGGGCCAAAGGGGTGACTTTGGACGAGTAGGGCAACCTGGTCCCCCAGGAGAGGATGGTGTAAAGGGCC
TGCAGGGACCTCCAGGGCCACTGGCCAGGCTGGAGAGCCGGTCCCCGAGGTCTGATTGGCCCCAGAGG
TCTCCAGGTCCCCTAGGACGCCGGGTGTGACAGGGAGTGATGGCGCACAGGGGCCAAAGGCAACGTG
GGTCTCTGGAGAACCAGGACCCCAAGGAAACACGGCTCCCAGGGAATCCAGGCCCCC
AGGGGCCATTGGCACTCCCGGGAAAAGGGTCCCCTGGAAACCCGGAATCCAGGTGTCCAGGATC
TGAGGGCCCCCGGGCCACCCAGGCCACGAGGGTCCCACAGGAGAAAAGGGGCTCAGGGCCACACGGA
TCAGCAGGCCCTCGGGGTATCCTGGACTTCGTGGTGTGAAGGGTACCTCTGGTAACCGGGTCTCCAAG
GGGAAAAGGAGAAAAGGGGAGAGGATGGCTTTCCTGGCTCAAGGGTGTGAGGGACAAAAGGCGACCG
GGGAAACCCCGACCCCAAGTCCAGAGGAGAGGATGGTCCAGAAGGACAAAAGGGGCTGGGGGACTG
CCTGGTGTGAGGGTCTCCAGGAGCAGAGGGGAGAAGGGCAAGCTTGGGGTCCAGGTCTCCAGGTT
ATCCAGGACGCCAGGACCTAAGGGATCTATTGGATTTCTGGACCTTGGGACCACTGGGGGAGAAAGG
CAAGCGGGGCAAAGCAGGACAGCCAGGAGAGGAAGGAGAACGCGGCACACCGGGCACCCGAGGAGACAGG
GGACAGCCGGGGCCACAGGCCAGCCTGGCCCCAAGGGTACGTGGGCCAGAATGGTCTCTGGGCCCC
CTGGAGAAAAGGGTCTACCCGGTCTTCAAGGCCACCAGGATCCCCGGACAAAAGGCCCCCGGGTCC
TCAGGGGAAAAGATGGGATATCTGGGCACCTGGACAAAGAGGAGAATTGGGCTTCCAAGGTCTGACAGGC
CCCCCTGGACCAGCTGGCGTCTTGGTCTCAGGGAAAGGTAGGGGACGTGGGGCTCTAGGCGAGAGAG
GCCCCCAGGGCTCTGGACCTCTGGTGAACAAGGTCTGCCAGGCATAGAAGGCAGAGAAGGGGCCAA
GGGTGAGCTAGGACCCCTGGGGTCCGTCCGGGAAGGAGGGGCCACCTGGGCCAGGGGCTTCCCTGGCCCC
CAAGGAGCCCCGGAGACCCAGGACCCATTGGTTTGAAGGGTGAACAAGGTCCCCAGGCCCTGTGGGG
CAAATGGTCCCCGGGAGAGCGTGGTCTGTAGGCCCTCTGGTGGCATTGGGCTTCTGGCCAGAGTGG
AGGGCAAGGCCCTATTGGTCTGCTGGCAGAAGGGTCCCAGGGGAGAACGGGGTACTCTGGTCTACT
GGCAAAGATGGTATTCCAGGACCCCGGGGCTTCCAGGGCCCTCTGGAGCTGCGGGGCTCTGGGGAAG
AAGGAGACAAGGGGGAAGTAGGGATGCCTGGTCAACAAGGAAGCAAAGGGGATAAAGGAGATGCAGGCC
ACCTGGACCAACAGGAATAAGAGGTCCAGCAGGCCATTACAGCCTCCCGGTGCTGATGGCGCTCAGGGT
CGCCGGGACCCCTGGCCTCTCGGGCAGAAGGGGATGACGGAGTTCGAGGCTTGTAGGTGTAATTG
GTCCTCCAGGTCTGCAGGGGCTGCCGGTCTCCGGGGAGAAGGGCGAGGTTGGAGACGTAGGATCCAT
GGGTCCACATGGAGCTCCAGGCCCTCGGGTCCCCTGGGCCAGTGGATCAGAGGGCCCCCAGGTCTG
CCTGGAGGAGTAGGACAGCCTGGTGTGTGGCGAGAAGGGTGAAGGAGGGGATGCTGGAGACGCCGGAC
CCCCAGGAATCCCGGCATCCCTGGGCCAAAGGTGAAATGGTAAAAGGGGATTCCGGTCCATCAGG
GGCTGCTGGTCCCCAGGCAAGAAAGACCCCAAGGAGAGGACCGCTCTAAGGGGAACATGGGTCCACA
GGAATCCCTGGAGATCTAGGGCCCCAGGAGACCTGGAGTTCGGGTATTGATGGCATCCAGGGGAGA
AGGGAAATGCTGGTGTATTGGGGGACCGGGCCACCTGGAGCTTCCGGGGAACCTGGTGCCCGTGGCCT
CCCTGGCAAGAGGGGTTCCCCTGGCCGCATGGGTCCAGAAGGAAGAGAGGGCGAGAAAGGCGCAAGGGA
GATGCTGGTCTGATGGACCCCAAGGACAGGACAGGCCCAATTGGGGTCCAGGGCCCCCTGGACGAATTG
GGCCTGATGGTCTTCCAGGGATCCCTGGTCTGTGGGTGAACAGGTCTCCTGGACCTCCTGGGTAAT
CGGCCCTCCAGGGCCCCGGGCCACCTGGCCTCCCTGGCCTGAAGGGAGATGCTGGCCCAAGGGGGAG
AAGGGCCACATTGGGCTAATAGGCCTATTGGTCCCCAGGGGAGCCGGTGAGAAAGGCGATCAGGGT
TGCCAGGTGTGACAGGGCCCCCAGGCCTCAGGGAGACCTGGTCTCCCTGGTCTGTGGTCTGTAGG
TCACCCTGGGCCCCAGGTGTGGTGGGCCCTCTGGGACAGAAGGGCTCCAAGGGTCCCCGGGATCTCTT
GGTCTCGTGGAGACCCTGGACCAGCGGTCTCCTGGTCCCCCGGGTCTCCGGCTGAGGTGCATGGCC
TGCGCAGGCGCCGATCTGTGACGGACACCTGGAAGGTGGCCTGGAGGAGGTGATGGCCTCACTGAATTC
ACTGAGCTTGGAGCTGCAGCAGTTGCAGAGACCTTGGGCACAGCCGAGAGCCCAGGCCTCATGTGCCGA
GAGCTTACCAGGACACCCACACCTGCCGATGGAGAGTACTGGATTGACCCCAATCAGGGCTGTGCAC
GTGACGCCTTCAAGTTTTCTGCAACTTACGGCAGGAGGTGAGACCTGTCTCTATCCAGACAAGAAGTT
TGAGACGGTAAACTGGCCTCGTGGTCCGAGAGAAGCCTGGAGGCTGGTACAGCACCTCCGCCGAGGG
AAGAAGTTCTCTATGTGGATGTGATGGTCCCCGGTGAATGTGGTCCAGTTGACCTTCTGAAGTTGT
TGAGTGTGCAGCCATCAGAGGTTCACTTACATCTGCCAGAACTCGGTGGCATGGCTGGATGAAGCTGC
GGGTGACCACAGGCACTCCATCCGTTCCAAGGGACCAACTGGGAAGAGTTGTCCTTCAACCAGACAACA
GCAGTACCATCAAGGTCTCCATGATGGCTGTGGGTCCGGAAGGGACAGGCGAAGACCCTCTTTGAAT
TCAGCTCTTGTGGTTTTCTGCCTCTGTGGATGTGGTGCCTCTGACTTTGGTCCAGACGAACAAAA
GTTTGGTTTTGAACTCGGCTCCATCTGCTTAGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221630 representing NM_016919
Red=Cloning site Green=Tags(s)

MRSCRRLDQLQAGLCLLLASLQLVSWTLAEPVDVLEAWGVHRDQAGVAEGPGFCPLRIPQGDRAFRVVK
SSLLSVPTWQLFPDGHFENFSVLLTLRAQPANQSVLLSIYDEKGVRLGLALGPALGLLGDSFRPLPKQ
VNIMDGRWHRVAVSISGNKVTLVVDCEPQPTFGQGPRFISTAGLTVMGTQDTREESFEGDIQELLLIPD
PQAAFQACESYLPGETLDSTTTGAPKDEPETPAPRRRKGGKGGKGRGRKGGKGRKKNKETSLSPTPGA
PENQTSLHIPETEKTVPHLPLTPPLAITTTVTIGQNAVTSQGLDSGTETEQTTPVEVDSTEEGEGGPTM
GPKFRAAEQSLQTEFQIFPGAGEKGAKEPATVEQGQFEGPAGAPGPRGISGSPGPPGPPGFPDGRGLP
GPAGLPGIPGIDGARGLPGTVMMPFHFASSMKGPPVFSFQQAQAQAVLQQAQLSMKGPPGVPVGLTGRPG
PVGLPGYPGLKGELGEVGPQGPRLQGPPGPPGREGKTRAGADGARGLPGDTGPKGDRGFDGLPGLPGE
KGQRGDFGRVQPGPPGEDGVKGLQGPPGPTGQAGEPGRRLIGPRRLPGLGRPVGTGSDGAPGAKGNV
GPPGEPGPPGQQGNHGSQIGIPGQPIGTGPEKPPGNPPIGVPVPGSEGGPHGHEGPTGEKGAQGGP
SAGPRGYPGLRGVKGTSNRLQGEKGERGEDGFPFGKDEGPKGDRGNPGGPRGEDGPEGQKGGGL
PGDEGPPGAAGEKGLGVPGLPGYGRPGPKSIGFPGLGPLEKGRKAGQPGEEGERGTPGTRGDR
GQPGATGQPGKGDVQNGSPGPPGKGLPGLQGPPGFPKGPQKDGISGHPGQRGELGFQGLTG
PPGPAGVLPQKVGDVGLGERGPPGPPGPEQGLPGIEGREGAKGELGPLGKGVGKGGPPGPRGFP
QGAPGDPGPIGLKGDGPPGVPVANGSPGERGVPVSGGIGLPGQSGGQPIGPAGEKGSPPGERGTPGT
GKDGIPGPPGLQGPSGAAGPSGEEGDKGEVGMGPKGSKGDKGDAGPPGTGIRGPAGHSLPGADGAQQ
RRGPPGLFGQKGGDGVRFVGVIGPPGLQGLPGPPGKGEVGDVGSMPHGAPGPRGPPGSPGSEGGPGL
PGGVGQPGAVGKGEKGEKGDAGDAGPPGIPGIPGPKGEIKEKGDSPGSAAGPPGKGGPPGEDGSKGNMGT
GLPGDLGPPGDPVPGIDGIPGKGNAGDIGGPPGASGEPGARGLPGKRGSPGRMGPEGREGEKGA
DAGPDGPPGRTGPIGARGPPGRIQDGLPGIPGVPGEPLGPPGLIGPPGLGPPGLPGLKGDAGPKGE
KGHIGLIGLIGPPGEAGEKGDQGLPGVQGPGLQGDPLPGPVGSLGHPGPPGVVGLGQKSGKSPGSL
GPRGDPGAPGPPGSPAEVHGLRRRSVTDLEGGLEEVMSLNSLSLELQQLQRPLGTAESPLMCR
ELHRDHPHLPDGEYWIDPNQGCARDAFKVFCNFTAGGETCLYDCKKFETVKLASWSREKPGGWYSTFRRG
KKFSYVDADGSPVNVVQLTFLKLLSAAAHQRFTYICQNSVAWLDEAAGDHRHSIRFQGTNWEELSFNQTT
AATIKVSHDGCVRKQAKTLFEFSSSVGFLPLWDVAASDFGQTNQKFGFELGSIKCFSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9105_c12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_016919

ORF Size: 5217 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_016919.3](#), [NP_058615.1](#)

RefSeq Size: 6135 bp

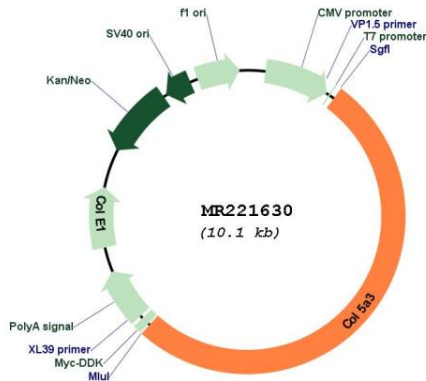
RefSeq ORF: 5220 bp

Locus ID: 53867

Cytogenetics: 9 A3

MW: 172 kDa

Product images:



Circular map for MR221630