

## Product datasheet for **RR213293**

### **Mcoln2 (NM\_001039005) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mcoln2 (NM_001039005) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mcoln2
Synonyms:	MGC124828
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR213293 representing NM\_001039005  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCGAAGCGGAAGAGACGCTGGACCTGCCAGCGTGAACCGCGCCCCGGACCCAGCTTGGGGTCCCC  
 AGCACAGAGCTGCAGTGGCGTCTCTTGATTCTGAGGTGAAGGAAGAGTGTCTGAGGGAAGACCTGAAGTT  
 CTACTTCATGAGTCCCTGTGAGAAATACCGAGCCAGACGCCAGATCCCATGGAACTGGCCTTGAGATT  
 TTGAAGATAGTCATGGTAACCACACAGCTTGTTTCGGTTTGGCTTAGGTAACAGTTGGTGGTGGCTTTCA  
 AAGAAGATAAACTGTTGCTTTTAAAGCACTGTTTTTAAAGGATTTTCTGGAGTTGATGAAGATGACTA  
 CAGCTGCAGCATATACTCAGGAGGACGCTACGAGAGCATTTTTTGTCTATAAAGCAGTATCGCCAT  
 CTAAGAACATTTCCCTGGCCACCCTTGGTTATGGAAAAAGTGAAGACAATAGAAGTGGCTTGAGATTCT  
 GTAAGCAGCACTACAAGAGCGGGCCATGTTTTCTTAACGAGACCCTGAACATTGACAGTGACATTGA  
 GACAGACTGCACTCACCTGGACCTCCAGGTGCTACCAAGGACCCCGAGGACTGGGCACAGGCATCGTTC  
 TTCAGGCTGGATTTTCATCGGCTCGTACAAGTGGATATCTCTTTTGCCTCAAAGGAATTGACCTACAGG  
 CAGTTCACCTCCCGAGAGGTACCAGACTGTTACCTCTTTCAGAATACGATTACCTTCGACAACACGGCCCA  
 CAGTGGAAAAATCAAAATCTACTTTAACAGCGAGGCCAACATAGAAGAATGTAACACATGAACTTATCT  
 GGGTCTCTTCAGAGAAGCACCCGCTACGTCCTGGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
 CCCTTATCCTGTGCACAAGATCCATTGTTCTTGTCTGAGGCTGAGGAAGAGATTCTAAACTTCTTCT  
 GGAGAAGTACAAACAACCGTGTGTGATGCTGACCGGTGGGAGTTCATCAATGGATGGTACGTCTGGTC  
 ACTATCAGCGACCTCATGACAATAATTGGATCCATATTGAAGATGGAAATCAAAGCCAAGAACCTCACAA  
 AGTATGACCTGTGCAGCATCCTGCTCGGGACGTCGAGCCTCCTTGTCTGGGTTGGAGTCATCCGATATCT  
 GGGTTACTTTTCAGACGTACAATGCGCTCATTTTAAACCATGCAGGCTCCCTGCCCAAAGTGTCCGGTTC  
 AGCGCTTGCGCCGTTTGTCTACCTGGGCTACACGTTCTGCGGTTGGATTGTCTTAGGGCCGTACCACG  
 AGAAGTTTGAACCTGAACATCGTTGCGGAATGCCTGTTTTCTGCTCAACGGTGGTGGTGGTGGTGGTGGT  
 CACATTTGCTCAGATCCAGCAGAAGAGCCTCCTGGTGTGGCTGTTAGCCGCTCTACTTGTACTCCTTC  
 ATCAGCCTCTTACATACATGGTCTCAGTCTTTTTCATCGCGCTCATACCGATTCTGACACACCATTA  
 AGAAATACCAGCAGAATGGGTTTCTGAAACGGATCTGCAGAAATTCCTGAAGGAGAGTGGTAGCAAAGA  
 AGGGTACCAGAAGGAGCCATCAGCCTTGTGCCCTGTTTCTGCTGTCTGAGGAGGAGAGGAAGTGTGAC  
 CACTTGGTCTCGTTGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR213293 representing NM\_001039005  
 Red=Cloning site Green=Tags(s)

MPEGEETLDLPawnRAPDPawgpQHRAAVASLDSEVKEECLREDLKfyfMSPCEKYRARRQIPWKLALQI  
 LKIvmvTTLVRFGLGNQLVvafKEDNTVafKHLfLkGfSGVDEDDYSCSIYtQEDAYESIFFAIKQYRH  
 LKNISLAtLgYgKsEDNRTGLRFCKQHYKSGAMfSSNETLNIDSDIETDCTHDLQVLTKDPEDWAQASf  
 FRLDFHRLVQVDISfALKGIDLQAVHSREVPDCYLfQNTITFDNTAHSgKIKIYfNSEANIEECKHMNLS  
 GSLQRSTRYVlVfDVFVIAICLAsLILCTRIVLALRLRKRfLNfFLEKYKHVCDADREfINGWYVlV  
 TISDLMTIIGSILKMEIKAKNLtNYDLCSILLGTSTLLVWVGVIrYlGYfQTYNALILtMQASLPKVLRF  
 SACAGLIYlGYfCGWIVLGPYHEKFENLNIVAECLfSLVNGDDMFATfAQIQKSLLVWLFsRLYLYSf  
 ISLFIYMLSLfIALITDSYHTIKKYQqNGfPETDLQKfLkESGSKEGYQKEPSALLPCfCCLRRRGSDD  
 HLVLVD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001039005

ORF Size: 1698 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\\_001039005.1](#), [NP\\_001034094.1](#)

RefSeq Size: 2547 bp

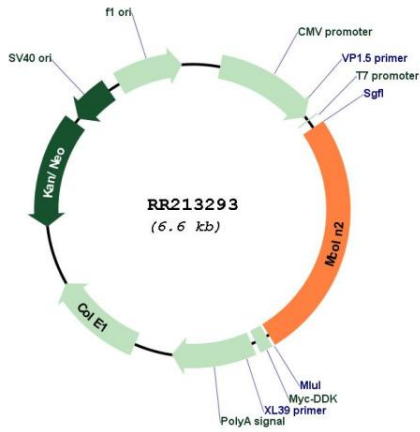
RefSeq ORF: 1701 bp

Locus ID: 292168

Cytogenetics: 2q44

MW: 65.2 kDa

Product images:



Circular map for RR213293