

Product datasheet for **RR205443**

Mcoln3 (NM_001012059) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcoln3 (NM_001012059) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mcoln3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR205443 representing NM_001012059
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAAATCCTGAGGTGGTAAAGCAGCTGCAGTTCTCACCAGGATGAAAGTCCCTGCACCTTTCTACC
 CGAGCTCATCCCAGTCCGAGCAGCTTCTCTTAGAAGATCAGATGAGGCGGAAACTCAAATCTTTTTTAT
 GAATCCTTGCGAGAAGTTCTGGGCTCGGGTAGGAAGCCATGGAAACTTGCCATACAGATTCTGAAAATC
 GCTATGGTACTATCCAGCTGGTTCTGTTTGGACTAAGTAACCAGATGGTAGTACTTTCAAGGAAGAGA
 ACACGATAGCCTCAAACACCTCTTCTGAAAGGCTACATGGACCGAATGGACGACACCTACGCGGTGTA
 CACTCAGAATGATGTGTACGACCAGATCATCTTGCAGTGACCCGGTACTTGCAACTTCGAAACATCTCC
 GTCGGCAACCATGCTTATGAGAACAAGGGGACTAAGCAGTCAGCAATGGCAGTCTGTCAGCACTTCTACA
 GGCAAGGCACCATCTGCCCGGGAACGATACCTTCGACATCGATCCAGAAGTCGAAACAGACTGTTTCCT
 TATAGAGCCAGAGGAAGCTTCCACATGGGAACACCTGGAGAAAACAACTCAACCTGACCTGGACTTC
 CACAGACTTCTGACAGTGGAGCTCCAATTTAAGCTCAAAGCCATCAACCTGCAGACAGTTCCGCCACCAAG
 AGCTTCTGACTGTTACGACTTTACCCTGACTATAACATTCGACAACAAGGCACACAGTGAAGAATCAA
 AATAAGTTTAGACAACGACATTTCTATCAGAGAATGCAAAGATTGGCACGTGTCTGGATCAATTCAGAAG
 AACACCCACTACATGATGATCTTCGATGCCCTTGTATCTGACCTGCTTGTCTCGCTGGTGTCTGCG
 CCAGGTCTGTGATTCGGGCTCTCAGCTTCAGCAGGAGTTGTCAACTTTTTCTTCTTACTACAAGAA
 GGAAGTTTCGGCTCTGATCAGATGGAGTTCATCAACGGTGGTACATTATGATCATCGTTAGTGACATA
 CTGACGATCGTTGGATCGATTCTGAAAATGGAAATCCAAGCCAAGAGTCTTACAAGCTACGATGTCTGTA
 GCATACTTCTTGGGACTCCACCATGCTCGTGTGGCTTGGCGTTATCCGATACCTGGGTTCTTTGCGAA
 GTACAATCTCCTTATCCTGACCCTCCAGCAGCGCTGCCAATGTCATCAGGTTCTGTTGCTGTGCGGCT
 ATGATCTATCTTGGGATTGCTTTTGGGATGGATTGTGCTGGGCCCTTACCATGAGAAGTTCGGCTCTC
 TGAACAAGGTCTCTGAGTGCCTATTCTCACTGATAAATGGAGACGACATGTTTTCCACGTTCCGAAAAAT
 GCAGCAGAAAAGTTACCTGGTGTGGCTGTTTCCAGCCGCTACTACCTGACTCGTTTATCAGCCTCTTCATC
 TACATGATCTTGGCCTTTTATCGCGCTCATCACAGACAGTACGAAACCATTAAGCACTACCAGCAAG
 ATGGCTTCCAGAGACGGAACCTCGAAAGTTTATCGTGAATGCAAAGACCTCCCAACTCTGAAAAATA
 CAGATTGGAAGATGACCCTCCAGGTTCTTATTCTGCTGCTGCAAAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR205443 representing NM_001012059
 Red=Cloning site Green=Tags(s)

MANPEVVVSSCSSHQDESPCTFYPPSSSQSEQLLLEDQMRRKLFKFFMNPCEKFWARGRKPWKLAIQILKI
 AMVTIQLVLFGLSNQMVVAFKEENTIAFKHLFLKGYMDRMDDTYAVYTQNDVYDQIIFAVTRYLQLRNIS
 VGNHAYENKGTKQSAMAVCQHFYRQGTICPGNDTFDIDPEVETD CFLIEPEEAFHMGTPGENKLNLTDF
 HRLLTVELQFKLKAINLQTVRHQELPDCYDFTLTITFDNKAHSGRIKISLDNDISIRECKDWHVSGSIQK
 NTHYMMIFDAFVILTCLSSLVLCARSVIRGLQLQEFVNFLLHYKKEVSASDQMEFINGWYIMIIIVSDI
 LTIVGSILKMEIQAKSLTSYDVCISILLGTSTMLVWLGVIRYLGFFAKYNLLILTLQAALPNVIRFCCCAA
 MIYLGYFCGWIIVLGPYHEKFRSLNKNVSECLFSLINGDDMFSTFAKMQKSYLVWLF SRVYLYSFISLFI
 YMILSLFIALITDITYETIKHYQQDGFPELTKFIAECKDLNSGKYRLEDDPPGSLFCCCKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001012059

ORF Size: 1659 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_001012059.1](#), [NP_001012059.1](#)

RefSeq Size: 2000 bp

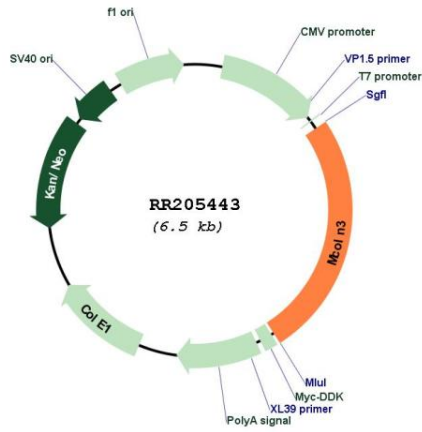
RefSeq ORF: 1662 bp

Locus ID: 308022

Cytogenetics: 2q44

MW: 63.9 kDa

Product images:



Circular map for RR205443