

Product datasheet for **RR217274**

Mcm4 (NM_033651) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mcm4 (NM_033651) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mcm4
Synonyms:	Mcmd4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR217274 representing NM_033651
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGTCGCCCGGCATCCACCCCAAGTCGCCCGCAGCAGCCGACGCGGACGAGTCACCCCAACCCAGTCGC
 TTCGAAGTGAGGAAAGCCGATCATCTCCAGTGGGAGACGTAGAGGCGAAGATTCTCCACCGGAGAGTT
 GCTGCCAATGCCACCTCACCAGGAGCAGACCTGCAGAGCCAGCTGCACAGAATGCCTTGTTCAGC
 CCTCCTCAGATGCATTCTCAGCTATTCCTTTGGAATTTGATGTTAGTTCGCCATTGACATATGGCACTC
 CCAGCTCTCGAGTGGAAGGAACCCCAAGAAGTGGGGTGAAGGACACCCATGAGGCAGAGGCCAGACCT
 GGGCTCAGCACGAAAGGGTTTGCAGGTGGATCTGCAGTCTGACGGAGCAGCAGAGAAGACACAGTAGCA
 AGTGAACAGTCTTAGGCCAAAAGCTTGTGATTTGGGGAACAGACGTGAATGTGGCAACATGCAAAGAAC
 ATTTTCAGAGATTCTTCAATGTTTTACTGATCCTCTGGCCAAAAGAAGAAAAATGTTGGCATAGATAT
 TACGCAACCTTTGTACATGCAACGACTTGGAGAGATTAATATTACAGGAGAGCCATTTTTAAATGTGAAC
 TGTGAACACATAAAATCATTTGGCAAAAACCTGTATAGACAGCTCATCTCTACCCACAGGAGGTTATAC
 CAACCTTTGACATGGCTGTCAATGAGATCTTCTTTGACCGTTATCCTGACTCCATCTTAGAACATCAGAT
 TCAAGTCAGACCTTTTAAATGCATTGAAGACAAAGAGTATGAGAAACTTGAATCCAGAAGACATTGATCAG
 CTCATCACCATCAGTGGCATGGTTATCAGAACGTCACAGCTGATCCCGAGATGCAGGAGGCCTTTTTC
 AGTGCCAAAGTCTGTGCCCATACCCCGGGTAGAGATGGACCGAGGCCGAATTGCTGAGCCCTGCACTTG
 CGTACACTGCCACACTACCCACAGTATGGCACTGATCCACAACCGTTCACTATTCTCTGACAAGCAGATG
 ATCAAGCTTCAAGAGTCTCCTGAAGATATGCCTGCTGGCAGACACCTCACACTGTTGTCCTTTTTGCC
 ACAATGATCTTTAGACAAGTTTACGCCAGGGGACAGAGTGAATGTCACAGGCATATATCGAGCATCCATCC
 TATTCGAGTTAATCCAAGAGTGAGCAACGTTGAAGTCTGTCTATAAAACCCACATTGATGTATCCATTAT
 CGGAAAACGGATGCAAAAACGCTCTGCATGGCCTTGATGAAGAAGCAGAACGAAAACTTTTTCAGAGAAA
 GTGTGAAATTGCTTAAGGAACTTTCCAGGAAGCCAGATATTTATGAGCGCTTGCTTCAGCCTTGCTCC
 CAGCATTTATGAACATGAAGATATAAAAAAGGGAATCCTACTTCAACTCTTTGGTGAACAAGGAAGGAT
 TTCAGTCACACTGGAAGGGGTAATTCGCTGCTGAGATTAACATCCTTCTGTGTGGTGACCTGGCACCA
 GCAAGTCCAGCTGCTACAGTATGTATACAACCTGGTTCCAGAGGCCAGTACACATCTGAAAAGGCTC
 CAGTGCAGTTGGCCTCACAGCCTATGTGATGAAAGACCCTGAGACCAGGCAGCTTGTCTCCAGACAGGT
 GCCCTTGTACTGAGTGACAATGGCATATGTTGCATTGATGAGTTTGACAAAATGAATGAAAGCACAAGGT
 CCGTGCTGCATGAGGTGATGGAACAGCAGACTCTGTCCATTGCAAAGGCTGGGATCATCTGTGAGCTCAA
 TGCACGAACCTCTGCTCCTGGCAGCAGCAAAACCTATTGAGTCCCAGTGGAAACCTAAAAAACAACCATT
 GAAAATATCCAACCTACCACACACTGTTGTCAAGGTTTGATCTCATTTCCTCATGCTAGACCCTCAAG
 ATGAGGCATATGACCGACGCCTAGCCCACCACCTGGTTTCATTGTACTACCAAAGTGAGGAGCAGGTGGA
 GCAGGAGTTCTGGACATGGCAGTGTGAAAGACTACATTGCCTATGCACATAGTACTATCATGCCCCGG
 CTGAGTGAGGAGGCCAGCCAGGCTCTCATTGAGGCTTATGTAACATGAGGAAGATCGGGAGTAGTCGGG
 GGATGGTTCTGCTTACCCTCGACAGCTAGAGTCAATTAATTCGCTTAGCAGAAGCCCATGCTAAAGTAAG
 ATTTTCAGACAAAAGTTGAAGCAATCGATGTGGAAGAGGCAAAACGCCTTACCAGGAGGCTCTGAAGCAG
 TCTGCCACTGACCCTCGCACTGGCATTGTGGACATATCTATTCTTACTACAGGAATGAGTGCCACTTCTC
 GTAACCGGAAAAGAAGATTAGCTGAAGCACTGAGAAAACCTATTTTATCTAAGGGTAAAAACCCAGCCTT
 AAAGTACCAACAGCTATTTGAGGATATTCGGGGACAATCTGACACAGCAATTACCAAGGACATGTTTGAA
 GAGGCCCTGCGTGCTTTGGCTGATGATGATTTCTAACAGTGACTGGGAAGACTGTCCGCTACTC

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217274 representing NM_033651
 Red=Cloning site Green=Tags(s)

MSSPASTPSRRSSRRGRVTPTQSLRSEESRSPSGRRRGEDSSTGELLPMPTSPGADLQSPAAQNALFSS
 PPQMHSSAIPLEFDVSSPLTYGTPSSRVEGTPRSGVVRGTPMRQRPDLGSARKGLQVDLQSDGAAAEDTVA
 SEQSLGQKLVWGTDVNVATCKEHFQRFLQCFTDPLAKEEENVGIDITQPLYMQRLGEINITGEPFLNVN
 CEHIKSFGKNLYRQLISYPQEVIPTFDMAVNEIFFDRYPDSILEHQIQVRPFNALKTKSMRNLNPEDIDQ
 LITISGMVIRTSQLIPEMQEAFFQCQVCAHTTRVEMDRGRIAEPCTCVHCHTTSMALIHNRSLFSDKQM
 IKLQESPEDMPAGQTPHTVVLFAHNDLVDKVQPGDRVNVGTGIYRAVPIRVNPRVSNVKSVMYKTHIDVIHY
 RKTDARKLHGLDEEAEQKLFSEKRVKLLKELSRKPDYERLASALAPSIYEHEDIKKGILLQLFGGTRKD
 FSHTGRGKFRAEINILLCGDPGTSKSQLLYVYNLVPRGQYTSKGSSAVGLTAYVMKDPETRQLVLQTG
 ALVLSDNIGICCIDFDKMNESTRSVLHEVMEQQTLIAKAGIICQLNARTSVLAAANPIESQWNPKTTI
 ENIQLPHTLLSRFDLIFLMLDPQDEAYDRRLAHLVSLYYQSEEQVEQFLDMAVLKDYIAYAHSTIMPR
 LSEEASQALIEAYVMRKGSSRGMVSAVPRQLESIRLAEAHAKVRFSDKVEAIDVEEAKRLHREALKQ
 SATDPRTGIVDISILTTGMSATSRKRKEELAEALRKLILSKGKTPALKYQQLFEDIRGQSDTAITKDMFE
 EALRALADDDFLTVTGTVRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

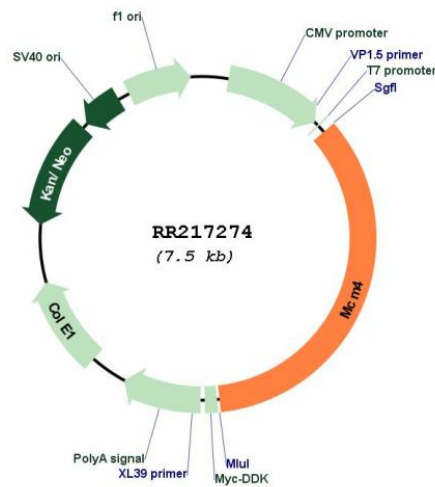
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_033651
ORF Size:	2586 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:	<ol style="list-style-type: none">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_033651.1 , NP_387500.1
RefSeq Size:	3339 bp
RefSeq ORF:	2589 bp
Locus ID:	29728
Cytogenetics:	11q23
MW:	96.6 kDa
Gene Summary:	replication licensing factor; homolog of yeast CDC21 [RGD, Feb 2006]