

Product datasheet for **MR204118**

Memo1 (NM_133771) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Memo1
Synonyms:	0610016J10Rik; D930048L02Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR204118 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTCCAACCGAGTGGTCTGCCGGGAAGCCAGCCACGCCGGGAGCTGGTACACCGCCTCAGGACCTCAGC
TGAACGCTCAGCTGGAAGGTTGGCTTTACAAGTACAGTCTACGAAAAGACCTGCTAGAGCCATTATTGC
ACCCCATGCGGGATACACATACTGTGGTCTGTGCTGCCCATGCTTACAAACAAGTGGATCCATCTGTT
ACCCGGAGAATTTTCATCCTTGGGCTTCCCATCATGTGCCCTGTCTCGATGTGCACTCTCCAGTGTGG
ATATATATAGGACTCCTCTGTATGATCTTCGTATTGACCAAAAGATTTACGGAGAGCTATGGAAGACAGG
AATGTTTGAACGAATGTCTCTGCAGACAGATGAAGTGAACACAGTATTGAAATGCATTTGCCTTATACA
GCTAAAGCCATGGAAGCCATAAAGATGAGTTTACCATTATTCCTGTACTGGTTGGAGCTCTGAGTGAGT
CAAAAGAACAGGAATTCGAAAACCTTCAGTAAATATCTAGCGGATCCTAGTAATCTCTTTGTGGTTTC
TTCTGATTTCTGCCACTGGGGTCAAAGGTTCCGTTACAGTTACTATGATGAATCCAGGGGGAGATTAT
AGATCCATTGAACATCTAGATAAAATGGGTATGAGTATTATAGAACAATTAGATCCTGTATCTTTAGCA
ATTATTTGAAGAAATATCATAACTATATGTGAAGACATCCCATTGGGGTGTATTAATGCTATCAC
AGAGCTTCAGAAGAATGGAATGAATATGAGCTTTTCCTTTTGAATTATGCCAGTCGAGCCAGTGTAGA
AGCTGGCAAGACAGTTTCAGTCAGTTACGCAGCTGGAGCACTCACGGTCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR204118 protein sequence
Red=Cloning site Green=Tags(s)

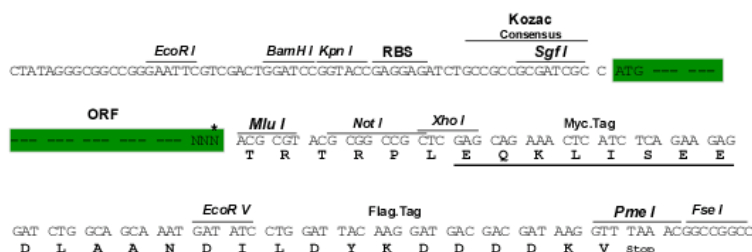
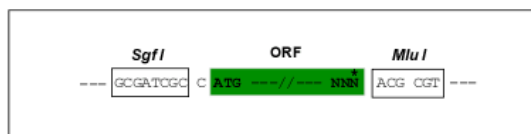
MSNRVVCREASHAGSWYTAGSPQLNAQLEGLWSQVQSTKRPARAIIAPHAGYTYCGSCAAHAYKVDPSPV
TRRIFILGPSHHVPLSRCALSSVDIYRTPLYDLRIDQKIYELWKTGMFERMSLQTDEDEHSIEMHLPYT
AKAMESHKDEFITIPVLVGLSESKEQEFGLFSKYLADPSNLFVVSSDFCHWGQRFYSYYDESQGEIY
RSIEDLKMGMMSIEQLDVPVSFNYLKKYHNTICGRHPIGVLLNATEILQKNGNMMSFSFLNFAQSSQCR
SWODSSVYAAGALTVDH

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133771

ORF Size: 891 bp

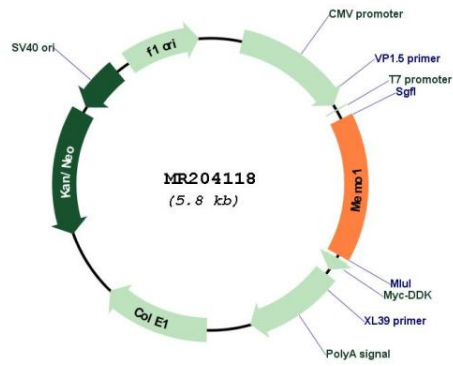
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_133771.2</u>
RefSeq Size:	1499 bp
RefSeq ORF:	894 bp
Locus ID:	76890
UniProt ID:	<u>Q91VH6</u>
Cytogenetics:	17 E2
MW:	33.7 kDa
Gene Summary:	May control cell migration by relaying extracellular chemotactic signals to the microtubule cytoskeleton. Mediator of ERBB2 signaling. The MEMO1-RHOA-DIAPH1 signaling pathway plays an important role in ERBB2-dependent stabilization of microtubules at the cell cortex. It controls the localization of APC and CLASP2 to the cell membrane, via the regulation of GSK3B activity. In turn, membrane-bound APC allows the localization of the MACF1 to the cell membrane, which is required for microtubule capture and stabilization (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204118