

Product datasheet for RN201368

Memo1 (NM_001029917) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Memo1 (NM_001029917) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Memo1
Synonyms:	RGD1309929
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN201368 representing NM_001029917 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCAACCGAGTGGTCTGCCGGAAGCCAGCCACGCCGGGAGCTGGTACACCGCCTCAGGACCTCAGC
TGAATGCCCAGCTAGAAGGTTGGCTTTCACAAGTCCAGTCTACGAAAAGACCTGCCAGAGCCATCATTGC
ACCCCATGCAGGATATACGTACTGTGGTCTTGTGCTGCCATGCTTACAACAAGTGGATCCATCAATT
ACCCGGAGAATTTTCATCCTTGGGCCCTCCCATCATGTGCCCTGTCTCGATGTGCACTCTCCAGTGTGG
ATATATATAGGACTCCTCTGTATGACCTTCGTATTGACCAAAGATTTACGGAGAGCTATGGAAGACAGG
AATGTTTGAACGAATGTCTCTGCAGACAGATGAAGATGAACACAGTATTGAAATGCATTTGCCTTACACA
GCTAAAGCCATGGAAAGCCATAAAGATGAGTTTACCATTATCCTGTACTGGTTGGAGCTCTGAGTGAGT
CAAAGAACAGGAATTCGAAAACCTCTTCAGTAAATATCTAGCGGATCCTAGTAATCTCTTTGTGGTTTC
TTCTGATTTCTGCCATTGGGGTCAAAGGTTCCGTTACAGTTACTATGATGAATCCCAGGGGGAGATTTAT
AGATCCATTGAACATCTAGATAAAATGGGTATGAGTATTATAGAACAATTAGATCCTGTATCTTTAGCA
ATTATTTGAAGAAATATCATAACTATATGTGGAAGACATCCCACGGGGTGTATTAAATGCTATCAC
AGAGCTTCAAAGAGTGGAAATGAATATGAGCTTTTCTTTTGAATTATGCCAGTCGAGCCAGTGTAGA
AGCTGGCAAGACAGTTTCAGTCAGTTACGCAGCTGGAGCACTCACGGTCCACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001029917
Insert Size:	894 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_001029917.1</u> , <u>NP_001025088.1</u>
RefSeq Size:	1429 bp
RefSeq ORF:	894 bp
Locus ID:	298787
UniProt ID:	<u>Q4QQR9</u>
Cytogenetics:	6q13
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]