

## Product datasheet for **RC237278**

### MEMO1 (NM\_001301833) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEMO1 (NM_001301833) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MEMO1
Synonyms:	C2orf4; CGI-27; MEMO; NS5ATP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237278 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCAACCGAGTGGTCTGCCGAGAAGCCAGTCACGCCGGGAGCTGGTACACAGCCTCAGGACCGCAGC  
TGAATGCACAGCTAGAAGGTTGGCTTTCACAAGTACAGTCTACAAAAGACCTGCTAGAGCCATTATTGC  
CCCCATGCAGGATATACGTACTGTGGTCTTGTGCTGCCATGCTTATAACAAGTGGATCCGTCTATT  
ACCCGGAGAATTTTCATCCTTGGCCTTCTCATCATGTGCCCTCTCTCGATGTGCACTTCCAGTGTGG  
ATATATATAGGACACCTCTGTATGACCTTCGTATTGACAAAAGATTTACGGAGAAGTGTGAAGACAGG  
AATGTTTTGAACGCATGTCTCTGCAGACAGATGAAGATGAACACAGTATTGAAATGCATTTGCCTTATACA  
GCTAAAGCCATGGAAAGCCATAAGGATGAGTTTACCATTATCCTGTACTGGTTGGAGCTCTGAGTGAGT  
CAAAGAACAGGAATTCGGAAAACCTCTCAGTAAATATCTAGCGGATCCTAGTAATCTCTTTGTGGTTTC  
TTCTGATTTCTGCCATTGGGGTCAAAGGTTCCGTTACAGTTACTATGATGAATCCCAGGGGGAGATTTAT  
AGATCCATTGAACATCTAGATAAAATGGGTATGAGTATTATAGAACAATTAGACCCTGTATCTTTAGCA  
ATTACTGAAGAAATACCATAATACTATATGTGGAAGACATCCCATTGGGGTGTATTAAATGCTATCAC  
AGAGCTCCAGAAGAATGGAATGAATATGAGTTTTTCGTTTTTGAATTATGCCCAGTCGAGCCAGTGTAGA  
AACTGGCAAGACAGTTTCAGTGAGTTATGCAGCTGGAGCACTCACGGTCCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237278 protein sequence  
 Red=Cloning site Green=Tags(s)

MSNRVVCREASHAGSWYTAGPQLNAQLEGWLSQVQSTKRPARAIAPHAGYTYCGSCAAHAYKQVDP  
 TRRIFILGPSHHVPLSRCALSSVDIYRTPLYDLRIDQKIYGELWKTGMFERMSLQDDEHSEIEMHLPY  
 AKAMESHKDEFTIIPVLVGLSESKEQEFGKLF SKYLADPSNLFVSSDFCHWGQRF RYSSYDESQGEIY  
 RSIEHLDKMGMSIEQLDPVSFSNYLKKYHNTICGRHPIGVLLNAITELQKNGMNMMSFSLNYAQS  
 SQCRNWQDSSVSYAAGALTVH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6433\\_d07.zip](https://cdn.origene.com/chromatograms/mk6433_d07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001301833

**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.

**RefSeq:** [NM\\_001301833.3](#)

**RefSeq Size:** 1589 bp

**RefSeq ORF:** 894 bp

**Locus ID:** 51072

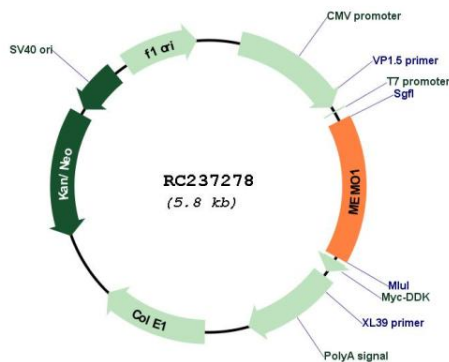
**UniProt ID:** [Q9Y316](#)

**Cytogenetics:** 2p22.3

**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. Is required for breast carcinoma cell migration.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RC237278