

Product datasheet for **SC335172**

MEMO1 (NM_001301833) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEMO1 (NM_001301833) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEMO1
Synonyms:	C2orf4; CGI-27; MEMO; NS5ATP7
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC335172 representing NM_001301833. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTCCAACCGAGTGGTCTGCCGAGAAGCCAGTCACGCCGGGAGCTGGTACACAGCCTCAGGACCGCAG
CTGAATGCACAGCTAGAAGGTTGGCTTTACAAGTACAGTCTACAAAAAGACCTGCTAGAGCCATTATT
GCCCCCATGCAGGATATACGTACTGTGGGTCTTGTGCTGCCATGCTTATAACAAGTGGATCCGTCT
ATTACCCGGAGAATTTTCATCCTTGGGCCTTCTCATCATGTGCCCTCTCTCGATGTGCACTTCCAGT
GTGGATATATATAGGACACCTCTGTATGACCTTCGTATTGACCAAAAGATTTACGGAGAAGTGTGGAAG
ACAGGAATGTTTGAACGCATGTCTCTGCAGACAGATGAAGATGAACACAGTATTGAAATGCATTTGCCT
TATACAGCTAAAGCCATGGAAAGCCATAAGGATGAGTTTACCATTATTCCTGTACTGGTTGGAGCTCTG
AGTGAGTCAAAAAGAACAGGAATTCGAAAACTCTTCAGTAAATATCTAGCGGATCCTAGTAAATCTTTT
GTGGTTTCTTCTGATTTCTGCCATTGGGGTCAAAGGTTCCGTTACAGTACTATGATGAATCCCAGGGG
GAGATTTATAGATCCATTGAACATCTAGATAAAATGGGTATGAGTATTATAGAACAATTAGACCCTGTA
TCTTTTAGCAATTACTTGAAGAAATACCATAATACTATATGTGGAAGACATCCCATTGGGGTGTATTA
AATGCTATCACAGAGCTCCAGAAGAAATGGAATGAATATGAGTTTTTCGTTTTTGAATTATGCCAGTCG
AGCCAGTGTAGAAACTGGCAAGACAGTTCAGTGAGTTATGCAGCTGGAGCACTCACGGTCCACTGA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001301833
Insert Size:	894 bp
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).



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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_001301833.1](#)

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]
Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Both variants 1 and 3 encode the same isoform (1).