

Product datasheet for **SC334419**

MEMO1 (NM_001301852) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEMO1 (NM_001301852) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEMO1
Synonyms:	C2orf4; CGI-27; MEMO; NS5ATP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001301852, the custom clone sequence may differ by one or more nucleotides

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ATGCAGGATATACGTA  
CTGTGGGTCTTGTGCT  
GCCCATGCTTATAAAC  
AAGTGGATCCGTCTAT  
TACCCG  
GAGAATTTTCATCCT  
TGGGCTTCTCATCAT  
GTGCCCTCTCTCGAT  
GTGCACTTCCAGTGT  
GGATATA  
TATAGGACACCTCTG  
TATGACCTTCGTATT  
GACCAAAAGATTTAC  
GGAGAAGTGGAAAG  
ACAGGAATGT  
TTGAACGCATGTCT  
CTGCAGACAGATGA  
AGATGAACACAGTAT  
TGAAATGCATTTGC  
CTTATACAGCTAA  
AGCCATGGAAAGGT  
CAAAGGTTCCGTTAC  
AGTTACTATGATGA  
ATCCCAGGGGAGAT  
TTATAGATCCAT  
TGAACATCTAGATA  
AAAAATGGGTATGAG  
TATTATAGAACAATT  
AGACCCTGTATCTTT  
TAGCAATTACTTG  
AAGAAATACCATAA  
TACTATATGTGGAAG  
ACATCCCATTGGGGT  
GTTATTAATGCTAT  
CACAGAGCTCC  
AGAAGAATGGAATG  
AATATGAGTTTTTCG  
TTTTTGAATTATGCC  
CAGTCGAGCCAGTGT  
AGAACTGGCA  
AGACAGTTCAGTGAG  
TTATGCAGCTGGAG  
CACTCACGGTCCACT  
GATGA
```

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001301852
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_001301852.1](#), [NP_001288781.1](#)

RefSeq Size: 1368 bp

RefSeq ORF: 606 bp

Locus ID: 51072

UniProt ID: [Q9Y316](#)

Cytogenetics: 2p22.3

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 (4) differs in the 5' UTR, has multiple coding region differences, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (3) has a distinct N-terminus and is shorter than isoform 1.