

Product datasheet for **RG227278**

MEMO1 (NM_001137602) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEMO1 (NM_001137602) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MEMO1
Synonyms:	C2orf4; CGI-27; MEMO; NS5ATP7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227278 representing NM_001137602 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAACCGAGTGGTCTGCCGAGAAGCCAGTCACGCCGGGAGCTGGTACACAGCCTCAGGACCGCAGC
TGAATGCACAGCTAGAAGGTTGGCTTTCACAAGTACAGTCTACAAAAAGACCTGCTAGAGCCATTATTGC
CCCCGGAGAATTTTCATCCTTGGGCTTCTCATCATGTGCCCTCTCTCGATGTGCACCTTCCAGTGTG
GATATATATAGGACACCTCTGTATGACCTTCGTATTGACCAAAAGATTTACGGAGAAGTGTGAAGACAG
GAATGTTTGAACGCATGTCTCTGCAGACAGATGAAGATGAACACAGTATTGAAATGCATTTGCCTTATAC
AGCTAAAGCCATGGAAAGCCATAAGGATGAGTTTACCATTATTCCTGACTGGTTGGAGCTCTGAGTGAG
TCAAAAAGAACAGGAATTCGGAAGAACTCTTCAGTAAATATCTAGCGGATCCTAGTAATCTCTTTGGTGT
CTTCTGATTTCTGCCATTGGGGTCAAAGGTTCCGTTACAGTTACTATGATGAATCCAGGGGGAGATTTA
TAGATCCATTGAACATCTAGATAAAATGGGTATGAGTATTATAGAACAATTAGACCCTGTATCTTTTAGC
AATTACTTGAAGAAATACCATAACTATATGTGGAAGACATCCCATTGGGGTGTATTAATGCTATCA
CAGAGCTCCAGAAGAATGGAATGAATATGAGTTTTTCTTTTTGAATTATGCCAGTCGAGCCAGTGTAG
AACTGGCAAGACAGTTCAGTGAGTTATGCAGCTGGAGCACTCACGGTCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227278 representing NM_001137602
 Red=Cloning site Green=Tags(s)

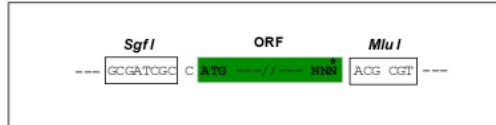
MSNRVVCREASHAGSWYTASGPQLNAQLEGWLSQVQSTKRPARAIIAPRRIFILGPSHHVPLSRCALSSV
 DIYRTPLYDLRIDQKIYGELWKTGMFERMSLQTDEDEHSIEMHLPYTAKAMESHKDEFTIIPVLVGALSE
 SKEQEFGKLF SKYLADPSNLFVVSDFCHWGQRF RYSYDESQGEIYRSIEHLDKMGMSIIEQLDPVSFS
 NYLKKYHNTICGRHPIGVLLNAITELQKNGMNSFSFLNYAQSSQCRNWQDSSVSYAAGALTVH

TRTRPLE - GFP Tag - V

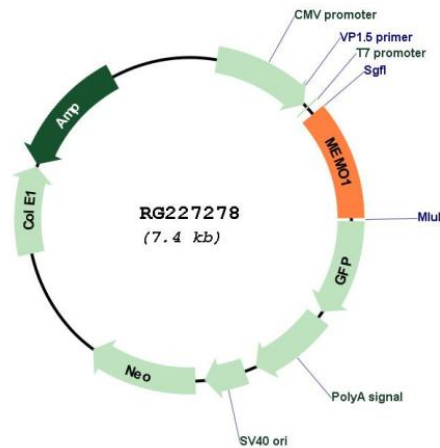
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001137602

ORF Size: 822 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:	<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:	NM_001137602.3
RefSeq Size:	1762 bp
RefSeq ORF:	825 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]