

Product datasheet for **RG236525**

MEMO1 (NM_001301852) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MEMO1 (NM_001301852) 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: >RG236525 representing NM_001301852.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGGATATACGTAAGTGGTCTTGTGCTGCCATGCTTATAAAACAAGTGGATCCGTCTATTACCC
GGAGAATTTTCATCCTTGGGCCTTCTCATCATGTGCCCTCTCTCGATGTGCACTTTCCAGTGTGGATA
TATATAGGACACCTCTGTATGACCTTCGTATTGACCAAAAGATTTACGGAGAAGTGTGGAAGACAGGAA
TGTTTGAACGCATGTCTCTGCAGACAGATGAAGATGAACACAGTATTGAAATGCATTTGCCTTATACAG
CTAAAGCCATGGAAAGGTCAAAGGTTCCGTTACAGTACTATGATGAATCCAGGGGAGATTTATAGA
TCCATTGAACATCTAGATAAAAATGGGTATGAGTATTATAGAACAATTAGACCCTGTATCTTTTAGCAAT
TACTTGAAGAAATACCATAATACTATATGTGGAAGACATCCCATTGGGGTGTATTAAATGCTATCACA
GAGCTCCAGAAGAATGGAATGAATATGAGTTTTTCGTTTTTGAATTATGCCAGTCGAGCCAGTGTAGA
AACTGGCAAGACAGTTCAGTGAGTTATGCAGCTGGAGCACTCACGGTCCAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236525
Blue=ORF Red=Cloning site Green=Tag(s)

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MQDIRTVGLVLPMLINKWIRLLPGEFSSLGLLIMCPSLDVHFPVWIYIGHLCMTFVLTFRFTENCGRQE
CLNAQLCRQMKMNTVLKCIQLKPKWGQRFYRSYYDESQGEIYRSIEHLDKMGMSIIIEQLDPVFSFN
YLKYYHNTICGRHPIGVLLNAITELQKNGMNMSFSLNYAQSSQCRNWQDSSVSVAAGALTVH
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSSHMHFKSAIHPISILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERY
```

Restriction Sites: SgfI-MluI



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RefSeq: [NM_001301852.3](#)

RefSeq Size: 1368 bp

RefSeq ORF: 606 bp

Locus ID: 51072

UniProt ID: [Q9Y316](#)

Cytogenetics: 2p22.3

MW: 23.7 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]