

## Product datasheet for **RC226107**

### **MARK3 (NM\_001128920) Human Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | MARK3 (NM_001128920) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                     |
| Symbol:                   | MARK3                                       |
| Synonyms:                 | CTAK1; KP78; Par-1a; PAR1A; VIPB            |
| Mammalian Cell Selection: | Neomycin                                    |
| Vector:                   | pCMV6-Entry (PS100001)                      |
| E. coli Selection:        | Kanamycin (25 ug/mL)                        |



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**ORF Nucleotide  
Sequence:**

>RC226107 representing NM\_001128920  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCACTAGGACCCCATTTGCCAACGGTGAATGAACGAGACACTGAAAACCACACGTCACATGGAGATG  
 GCGTCAAGAAGTTACCTCTGTACCAGCGCTCAGGAGCTCGGTGTAGAACTCTATAGCCTCCTGTGC  
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 AAAAATATTGCTTCCAAAATTGCCAATGAGCTAAAGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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**Protein Sequence:** >RC226107 representing NM\_001128920  
Red=Cloning site Green=Tags(s)

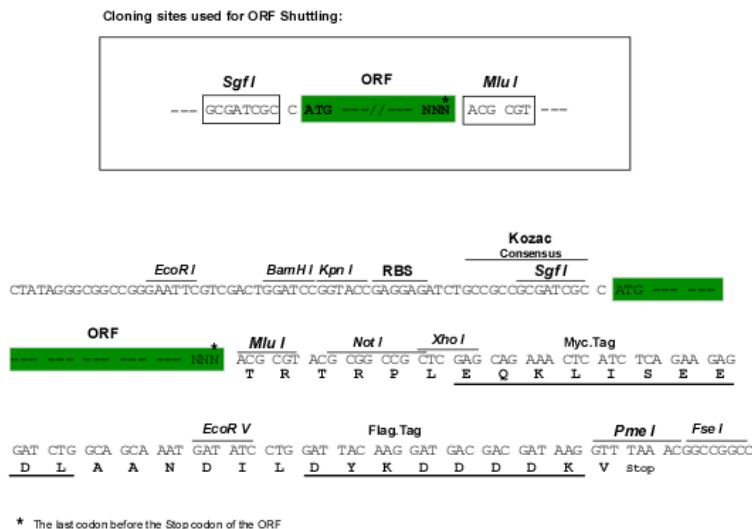
MSTRTP LPTVNERDTENHTSHGDGRQEVTSRTSRSGARCRNSIASCADQPHIGNYRL LKTI GKNFAKV  
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 FDYLV AHGRMKEKEARSKFRQIVSAVQYCHQKRI VHRDLKAENLLLDADMNIKIADFGFSNEFTVGGKLD  
 TFCGSPPYAAPEL FQGKKYDGP EVDVWSLGVIL YTLVSGSLPFDGQNLKELRERVL RGYRIPFYMSTDC  
 ENLLKRFLV LNPIKRG TLEQIMKDRWINAGHEEDELKPFVEPELDI SDQKRIDIMVGMGYSQEEIQESLS  
 KMKYDEITATY LLLGRKSSEVRPSSDLN NSTGQSPHHKVQRSVFSSQKQRRYS DHAGPAIPSVVAYPKRS  
 QTSTADSLKEDGIS SRKSSGSAVGGKGIAPAS PMLGNASNPNKADIPERKKSSTVPS SNTASGGMTRRN  
 TYVCSERTTADRHSVIQNGKENSTIPDQRTPVASTHSISSAATPDRIRFPRGTASRSTFHGQPRERRTAT  
 YNGPPASPSL SHEATPLSQTRSRGSTNLF SKLTSKLTRSRNVAEQKDENKEAKPRSLRFTWSMKTTS  
 SMDPGDMMREIRKVL DANNC DYEQRERFLLCVHGDGHAENLVQWEMEVCKLPRLSLNGVRFKRISGTSIAF  
 KNIASKIANELKL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001128920

**ORF Size:** 2139 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\\_001128920.1](#), [NP\\_001122392.1](#)

**RefSeq ORF:** 2142 bp

**Locus ID:** 4140

**UniProt ID:** [P27448](#)

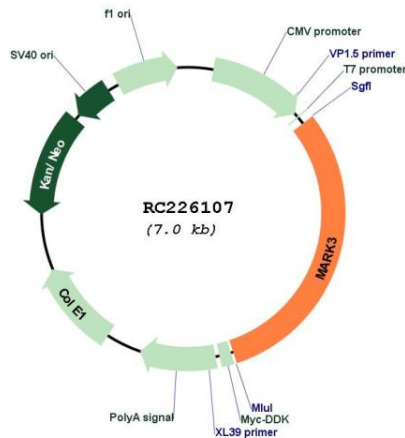
**Cytogenetics:** 14q32.32-q32.33

**Protein Families:** Druggable Genome, Protein Kinase

**MW:** 79.8 kDa

**Gene Summary:** The protein encoded by this gene is activated by phosphorylation and in turn is involved in the phosphorylation of tau proteins MAP2 and MAP4. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

**Product images:**



Circular map for RC226107