

## Product datasheet for **RR216750**

### Mapkapk5 (NM\_001164043) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mapkapk5 (NM_001164043) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mapkapk5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR216750 representing NM\_001164043  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCGGAGGATAGCAACATGGAGAAAGCCATCAAGGAGACCTCCATTTTAGAAGAATATAGTATCAATT  
 GGACTCAGAAACTGGGAGCTGGAATTAGTGGTCCGGTTAGAGTCTGTGTAAGAAATCTACTCAAGAACG  
 GTTTGCACTGAAAATTCTTCTCGATCGTCCAAAAGCTAGAAATGAGGTGCGCCTGCACATGATGTGTGCC  
 ACACACTCCAACATAGTTGAGATTATTGAAGTGTGCTAACAGTGTACAGTTCCCTCATGAGTCCAGCC  
 CCAGGGCTCGACTCTTAATTGTAATGGAGATGATGGAAGGGGGCAGCTGTTTCACAGAATCAGCCAGCA  
 CCGGCACTTTACAGAGAAGCAAGCCAGCCAAGTAAACAAGCAGATAGCCCTGGCTCTACAGCACTGTCAC  
 TTGCTAAACATTGCGCACAGAGACCTCAAGCCTGAAAATCTGCTTTTCAAGGATAACTCTTTGGACGCC  
 CTGTGAAGTTATGTGACTTTGGGTTTGTAAAGTTGACCAAGGTGATTTGATGACGCCCCAGTTACCCC  
 TTAATATGTAGCACCTCAGGTACTGGAAGCACAGAGAAGGCACCAGAAGGAGAAGTCTGGCCTCATCCCT  
 ACCTCGCCAACGCCCTACTTACAACAAGAGCTGTGACTTGTGGTCCCTCGGGGTGATAATTTATGTGA  
 TGCTATGCGGATACCCCTCTTTTACTCCAACACCACAGTCCGACCATCCCAAAGGACATGCGGAAAAA  
 GATCATGACAGGGAGTTTGTAGTCCCGGAGGAAGAGTGGAGCCAGATCTCAGAGATGGCCAAAGACGTG  
 GTGAGGAAGCTTCTAAAGGTCAAACCAGAGGAAAGACTCACAATCGAGGGGGTGTGGACCATCCCTGGC  
 TCAACTCGACAGAGGCCCTGGATAATGTCTACCTCTGCTCAGCTGATGATGGATAAGGCAAGTGGTTC  
 AGGGATCCAGCAGGCTCATGCCGAGCAGCTGGCAAACATGAGGATCCAGGACCTCAAAGTCAGCCTCAA  
 CCCCTGCACTCTGTGAACAACCCATTCTGAGGAAGAGGAAGCTACTGGGCTCCAAGCCAAAGGATGGTG  
 TTTATATCCACGACCATGAGAATGGAGTCGAGGATTCAAATGTTGCCTTGAAAAGCTTCGCGATGTCAT  
 TGCCCAGTGCATCCTTCCCAGGCTGGTAAAGGAGAGAATGAAGATGAGAAGCTCAATGAGGTAATGCAG  
 GAGGCCTGGAAGTACAACCGGGAGTGCAAACCTCTGCGGGACGCGCTGCAGAGTTTTAGCTGGAATGGTC  
 GTGGATTCACAGATAAAGTGACCGGATTAAGCTGGCAGAGGTTGTGAAGCAGGTGATCGAAGAGCAGAC  
 CCTTCCCACGAGCCCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216750 representing NM\_001164043  
 Red=Cloning site Green=Tags(s)

MSEDSNMEKAIKETSILEEYSINWTQKLGAGISGPVVRVCVKKSTQERFALKILLDRPKARNEVRLHMMCA  
 THSNIVEIIEVFANSVQFPHESSPRARLLIVMEMMEGGELFHRI SQHRHFTEKQASQVTKQIALALQHCH  
 LLNIAHRDLKPENLLFKDNSLDAPVKLCDFGFAKVDQGDLMTPQFTPYVYAPQVLEAQRHRHQKEKSGLIP  
 TSPTPYTYNKSCDLWSLGVIIYVMLCGYPPFYSKHHSRTIPKDMRKKIMTGSFEFPEEESQISEMAKDV  
 VRKLLKVKPEERLTIEGVLDPWLNSTEALDNVLPQAQLMMDKAVVAGIQQAHAELANMRIQDLKVSLK  
 PLHSVNNPILRKRKLLGSKPKDGVYIHDHENGVEDSNVALEKLRDVIAQCILPQAGKGENEDEKLNEMVMQ  
 EAWKYNRECKLLRDALQSF SWNGRGTDKVDRLKLAEVVKQVIEEQTLPHPEQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

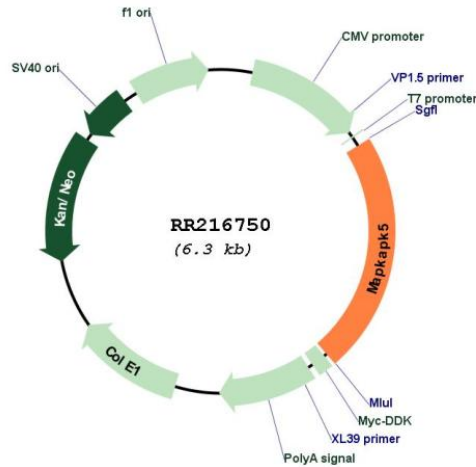
**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001164043

ORF Size: 1419 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\\_001164043.1](#), [NP\\_001157515.1](#)

**RefSeq Size:** 1699 bp

**RefSeq ORF:** 1422 bp

**Locus ID:** 498183

**Cytogenetics:** 12q16

**MW:** 54.1 kDa