

## Product datasheet for RR210369

### Mapk12 (NM\_021746) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk12 (NM_021746) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mapk12
Synonyms:	Sapk3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210369 representing NM_021746 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGCTCCCGCCACCCGCCCAAGGGCTTTACCGCCAGGAGGTGACCAAACGGCCTGGGAGGTGC  
GCGCCGTGTACCAGGACCTGCAGCCCGTTGGCTCTGGTGCCTATGGTGCAGTGTGCTCTGCAGTAGACAG  
CCGCACTGGCAACAAGGTGGCCATCAAGAAGTTGTACCGGCCCTCCAGTCGGAGCTGTTTGCCAAGCGC  
GCCTACAGAGAGTTGCGCCTCCTCAAACACATGCCACGAGAACGTCATTGGGCTGCTGGATGTGTTC  
CTCCCGATGAGACTCTGGATGACTTCACAGACTTCTACCTGGTGTGCCATTTCATGGGCACTGACCTGGG  
CAAGCTCATGAAGCAGGACTCTGAGTGAAGACAGAATCCAGTTTCTTGTGTATCAGATGCTGAAGGGG  
CTGAAGTATATCCACGCTGCCGGCGTATCCACAGGGACTTGAACCTGGAAACCTGGCTGTGAACGAGG  
ACTGTGAGCTGAAGATCCTAGATTTTGGCCTTCCAGGCAGGCGGACAGTGAAGTACAGGATATGTGGT  
AACCCGGTGGTATCGGGCACCAGAGGTCATCTTGAATTGGATGCGTTACACACAGACAGTGGACATTTGG  
TCTGTTGGCTGCATCATGGCAGAGATGATTACTGGAAGATCCTGTTCAAAGGCAATGACCACCTGGACC  
AGCTGAAGGAGATCATGAAAGTCACAGGGACACCCCTCCTGAGTTTGTACAGAAGCTACAGAGTGCTGA  
GGCCAAGAATAACATGGAAGGCCTCCCTGAGTTGGAAAAGAAGGATTTTGTCTCTGCTGACCAATGCA  
AGCCCTCAGGCCGTGAATCTCCTGGAAAAGATGCTGGTGTGGATGCGGAACAGCGGGTGACAGCAGCTG  
AGGCATTAGCCACCCATACTTTGAGTCCCTTCGGGCACTGAGGATGAGCCCAAGGCCAGAAATATGA  
TGACTCCTTTGATGACGTAGACCGCACCTTGAGGAATGGAAGCGTGTACGTATAAGGAAGTGCTCAGC  
TTCAAGCTCCCAGGCAGCTAGGAGCCAGAGTTCCAAAGGAGACAGCTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR210369 representing NM\_021746  
 Red=Cloning site Green=Tags(s)

MSSPPPARKGFYRQEVTKTAWEVRAVYQDLQPVGSGAYGAVCSAVDSRTGNKVAIKKLYRPFQSELFKR  
 AYRELRLLKMRHENVIQLLDVFTPDETLDDFTDFYL VMPFMGTDLGKLMKHETLSEDRIQFLVYQMLKG  
 LKYIHAAGVIHRDLKPGNLAVNEDCELIKILDFGLARQADSEMTGYVVTRWYRAPEVILNWMRYTQTVDIW  
 SVGCIMAEMITGKILFKGNDHLDQLKEIMKVTGTPPPEFVQKLQSAEAKNYMEGLPELEKKDFASVLTNA  
 SPQAVNLLKMLVLDAAEQRVTAAEALAHYPYFESLRDTEDEPKAQKYDDSFDDVDRTLEEWKRVTYKEVLS  
 FKPPRQLGARVPKETAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

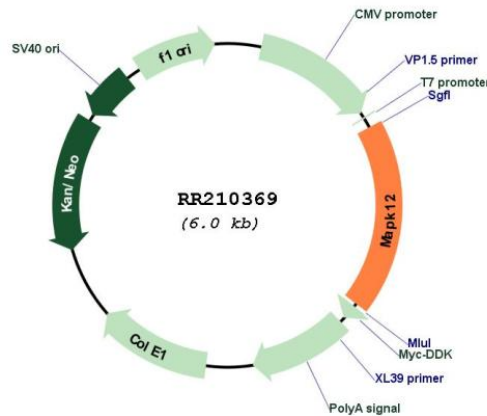
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_021746

<b>ORF Size:</b>	1101 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_021746.1</a> , <a href="#">NP_068514.1</a>
<b>RefSeq Size:</b>	1665 bp
<b>RefSeq ORF:</b>	1104 bp
<b>Locus ID:</b>	60352
<b>UniProt ID:</b>	<a href="#">Q63538</a>
<b>Cytogenetics:</b>	7q34
<b>MW:</b>	42 kDa
<b>Gene Summary:</b>	kinase activated by cellular stresses, bacterial endotoxin and inflammatory cytokines [RGD, Feb 2006]