

## Product datasheet for **RR200674**

### Map3k12 (NM\_013055) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Map3k12 (NM_013055) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Map3k12
Synonyms:	DLK; MUK; PK; Zpk
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR200674 representing NM\_013055  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTGCCTCCATGAAACCCGAACACCCCTCCCCTTCTTTGGAGGCTTTGTGTCTACTCTAAGTGAGG  
 CCTCCATGCGAAAAGCTGGATCCAGACACTTCAGACTGCACCCCTGAGAAGGACCTGACACCTACCCAATG  
 TGTACTTCGAGATGTTGTGCCTCTCGGTGGCAGGGTGGAGGAGGGCCAGCCCTCCCCAGGTGGAGAG  
 CCTCCTCCAGAGCCTTTTCCAATAGTGTCTGCAGCTACATGAGCAGGATACAGGTGGGCCAGGGGAG  
 CCACCGGGTACCTGAGAGTCGAGCATCTAGGGTTCGAGCTGATGAGGTACGTCTGCAGTGCCAGAGTGG  
 CAGTGGCTTCTTGAAGGTCTTTTGGCTGCGCCCTGTCTGGACAATGATTGGCAAAGCCTACTCC  
 ACAGAGCACAAGCAACAGCAGGAAGACCTTTGGGAAGTCCCTTTGAGGAAATCTGGACCTGCAGTGGG  
 TAGGCTCAGGGGCTCAGGGTCCGTTTTCTGGGACGCTTTCATGGGGAGGAGGTAGCTGTGAAGAAGGT  
 TCGAGACCTCAAGGAGACCGACATCAAGCATCTTCGAAAACCTGAAGCACCCCAACATCATCACTTTCAAG  
 GGTGTTTTGCACACAGGCCCGTCTACTGCATCCCTCATGGAGTTCGTGCCCAAGGACAGCTGTATGAGG  
 TGCTCAGGGCGGGCCGCCCGTTACCCCTCCTTGTCTGGTTGACTGGTCCATGGGCATCGCTGGAGGCAT  
 GAATTACCTACACCTGCACAAAATCATCCACAGAGACCTGAAGTCAACCAACATGCTAATACATACGAC  
 GATGTGGTGAAGATCTCAGACTTTGGCACTTCCAAGGAGCTGAGTGACAAGAGCACCAAGATGTCCTTTG  
 CAGGGACAGTAGCCTGGATGGCTCCTGAAGTGATCAGAAATGAACCTGTGTCTGAGAAGGTTGACATCTG  
 GTCCTTTGGGGTGGTCTTTGGGAATTACTGACTGGAGAGATCCCTACAAAGATGTAGACTCCTCAGCC  
 ATCATCTGGGGTGTGGGAAGCAACAGTCTTACCTGCCTGTACCCTTAGCTGCCAGACGGCTTTAAAA  
 TTCTGCTTCGCCAGTGTGGAACAGAAAACCTCGGAACCGCCCATCATTCCGACAGATCTTGTCTGACCT  
 GGACATCGCCTCGGCTGATGTGCTCTACACCCAGGAGACTTACTTTAAATCCAGGCAGAGTGGCGG  
 GAAGAAGTAAAATGCACTTTGAAAAGATTAAGTCAGAAGGGACCTGTCTGCACCGCCTAGAAGAGGAAC  
 TGGTGATGCGGAGAAGGGAGGAGCTCAGACATGCCCTGGACATCAGGGAGCACTATGAGCGCAAGTTGGA  
 GAGAGCTAAACAATTGTACATGGAACCTGAATGCCCTCATGTTGCAACTAGAAGTCAAAGAGAGGGAATTG  
 CTCAGGCGAGAGCAAGCTTTAGAAAGGAGGTGCTCTGCTACTGAAAGTACACACAGTCCCGAAGCCTCC  
 TACATGGAACACGATGGAGAAGCTCATCAAGAAAAGGAATGTGCCACAGAACTGTCACCCCATAGCAA  
 AAGGCCAGATATTCTCAAGACAGAGTCTTTGCTACCTAACTAGATGCAGCCCTAAGTGGGGTGGGGCTT  
 CCTGGTTGCTCCTAAGGCCCCCTTACCTGGGAGGAGTCTGCTGGCAAGACCCGTACCGAAAGGCCA  
 GCGCCAAGGGCAGCTGTGGAGACCTGCCTGGGCTTCTGTGACGCTTTGCCACCCATGAGCCTGGAGGACT  
 AGGAAGCCAGGAGGCTAGGAGTGGGCCCTACAGCTTGGGATGCCTCCCCCTGCTCTCCGTGGACTC  
 CACCATGACCTTCTACTTCGGAAGATGTCTTATCATCCCCAGACCTGTTATCAGCAGCACTGGGAGCCC  
 GAGGCCGAGGGGCAACAGGGGGAGCTCGGGATCCTGGCTCACCACCTCCACCCAGGGTGATACTCCTCC  
 AAGTGAGGGATCAGCTCCTGGTTCACACAGCCAGATTACCTGGGGGAGCTAAAGGGGAACCACTCCA  
 CCAGTAGGGCTGGAGAAGGTGTGGGGCTGCTGGGAACGGAAGGGAAGGGACTACAGGCCGGGGAGGAA  
 GCCGGCTGGGTACCAGCACTTGACCCCGCTGCGTGTGTACAGGGCTGCTGTGACTCGTAGTCAGAA  
 ACGTGGTATCTCATCTGAAGAGGAAGAAGGAGAGGTGACAGTGAAGTAGAGCTACCCCAAGTCAAAGG  
 TGGCCTCAGGGCCGAACATGCGTCAGTCACTATCTACGTTTACGCTCAGAGAACCATCAGATGTGGAGG  
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 GTCCTGAACGTGAAACCAGCTCCTTGCCATGCAACACCAGGATGACCAGGGCCCAATCCTGAGGACT  
 CAGACTGTGACAGCACTGAATTGGACAACCTCAACAGCATTGATGCCTTGCCGCCCCAGCCTCCTTCC  
 TCCA

**ACGGT**ACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200674 representing NM\_013055  
 Red=Cloning site Green=Tags(s)

MACLHETRTPSPSFGGFVSTLSEASMRKLDPDTSDCTPEKDLTPTQCVLRDVVPLGGQGGGGPSPSPGGE  
 PPPEPFANSVLQLHEQDTGGPGGATGSPESRASRVRADEVRLQCQSGSGFLEGLFGCLRVPVWTMIGKAYS  
 TEHKQQEDLWEVPFEEILDQLQWVGSAQGAFLGRFHGEEVAVKKVRDLKETDIKHLRKLKHPNIITFK  
 GVCTQAPCYCILMEFCAQGQLYEVLRAGRPVTPSLLVDWSMGIAGGMNYLHLHKIHRDLKSPNMLITYD  
 DVVKISDFGTSKELSDKSTKMSFAGTVAWMAPEVIRNEPVSEKVDIWSFGVVLWELLTGEIPYKDVSSA  
 IIWVGVSNSLHLPVPSSCPDGFKILLRQCWNRPNRPSFRQILLHLDIASADVLSTPQETYFKSQAEWR  
 EEVKLHFEEKISEGTCLHRLEELVMRRREELRHALDIREHYERKLERANNLYMELNALMLQELKEREL  
 LRREQALERRCPLLKSHTSRLLHGNTMEKLIKRNVPQKLSPHSKRPDILKTESLLPKLDAALSGVGL  
 PGCPKAPPSPGRSRRGKTRHRKASAKGSCGDLPLRAALPPEHPGGLGSPGGLGVGPTAWDASPPALRGL  
 HHDLLLRKMSSSSPDLLSAALGARGRGATGGARDPGSPPPPQGDTPPSEGSAPGSTSPDSPGGAKGEP  
 PVGPGEGVLLGTGREGTTGRGSRAGYQHLTPAALLYRAAVTRSQKRGISSEEEEGEVDSEVELPPSQ  
 WPQGNMRQSLSTFSENPSDVEEGTASEPSPSGTPEVGSTNTDERPDERSDDMCSQSGSEIPLDLPTSEV  
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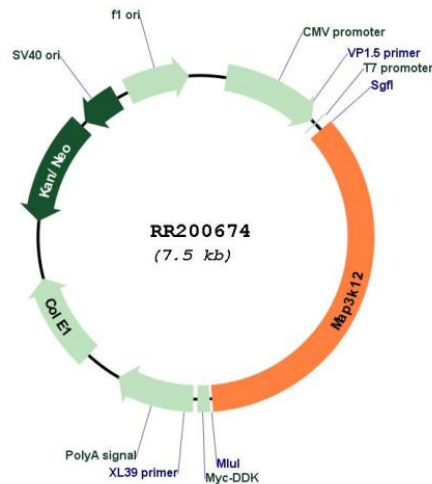
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_013055

**ORF Size:** 2664 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\\_013055.1](#), [NP\\_037187.1](#)

**RefSeq Size:** 3754 bp

**RefSeq ORF:** 2667 bp

**Locus ID:** 25579

**UniProt ID:** [Q63796](#)

**Cytogenetics:** 7q36

**MW:** 96.3 kDa

**Gene Summary:** kinase which is an activator of the JNK-pathway [RGD, Feb 2006]