

## Product datasheet for **MG215590**

### Map3k10 (NM\_001081292) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Map3k10 (NM_001081292) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Map3k10
Synonyms:	BC028668; BC046514; Mlk2; MST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG215590 representing NM\_001081292  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGGAGGAGGAGGGGCGGCCAGAGAGTGGGCGCGACCCCGGGGCCAGTGTGGACCGCC  
 TGTTGACTACGAGGCGGTGGGCGACGAGGAGCTGACCCTGCGGAGAGGGACCGCGTCCAGGTGCTTTC  
 CCAGGACTGTGCGGTGTCTGGAGATGAGGGCTGGTGGACAGGGCAGCTGCCACGGCCGTGTGGGCGTC  
 TCCCCAGCAACTACGTGGCCCCGCTGCACCCGCCACCCCTCAGACCTCCAGCTGCCACAGGAGATCC  
 CCTTCCACGAGCTGCAGCTGGAGGAGATCATCGGTGTGGGGGCTTTGGCAAAGTCTATCGCGCCGTATG  
 GCGTGGAGAGGAAGTAGCGGTCAAGGCCGCTCGGCTGGACCTGAACGGGACCCGGCAGTGACAGCGGAG  
 CAGGTCCGCCAGGAGGCCCGCTCTTTGGAGCCCTGCAGCACCCCAACATCATTGCCCTGAGGGGCGCT  
 GCCTCAGCCCCCAAACCTCTGCCTGGTATGGAATATGCTCGGGGAGGTGCATTGAGCAGGGTACTGGC  
 AGGTGCGCGGGTCCCCCTCATGTGCTGGTCAACTGGGCTGTGCAGGTGGCTCGGGGCATGAACTATCTA  
 CACAATGATGCCCTGTGCCATCATTCACCGGACCTCAAGTCCATCAACATCCTAATCCTGGAGGCCA  
 TTGAGAACCACAACCTCGCTGACACGGTCTCAAGATCACAGACTTCGGCCTTGCCCGAGAGTGGACAA  
 GACGACAAAAATGAGTGCAGCGGGACCTACGCCTGGATGGCTCCTGAGGTTATCCGCTGTCCCTTTC  
 TCCAAAAGCAGCGACGTCTGGAGCTTCGGGGTCTTCTTTGGGAGCTGCTGACCGGGGAGGTCCCTACC  
 GAGAAATCGACGCTTGGCCGTGGCTTACGGTGTGGCTATGAACAAGCTGACGCTACCCATCCCCTCCAC  
 GTGCCCGAGCCCTTTGCCCGCTACTGGAGGAATGCTGGGACCCAGACCCTCACGGGCGACCAGATTTT  
 GGCACATCCTGAAGCAGCTGGAGGTCATCGAGCAGTCAGCCCTGTTCCAGATGCCACTGGAGTCCCTCC  
 ACTCCCTGCAGGAAGACTGGAAGCTGGAGATTGAGCATATGTTTGGATGACCTTCGGACCAAGGAGAGGA  
 GTTGGCAGCCGGGAAGAGGAGCTATTGCGGGCTGCACAGGAGCAGCGTTTTTCAGGAAGAGCAGCTACGG  
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 AGCTGAGCCAGGAGAAGCCAGGGTCCGAAAACGCAAGGGCAACTTCAAGCGCAGCCGCTTGCTCAAGCT  
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 ACCCTGGACAAGAGGAAAGGATCCGATGGGGCCAGCCCTCCTGCCAGCCCAGCATATTCCCCGGTTGA  
 GGGCCATTGACTCCCATGGACTGTGGTGGCAGCAGTGGTGTGGAACATGGAGCCGAGTGGGCC  
 ACCAAAGAAGGAAGAAGTGGTTGGGGCAAGAAGAAAGGCAGGACATGGGGCCCCAGTTCACCTTTGCAG  
 AAGGAGCGAGCTGGAGGAGAGGAGAGGCTCAAGGCCCTGGGGAAAGGAAGCAAGCAGTGGTCTCGAGCG  
 CCCCCAACCTGGGCAAAATCCCCTAAGCACACCCCATGGCCCCAGGCTTTCGCCAGCTCAACGAGATGGA  
 AGAATTTGCGGAGGCAGATGAAGGCAACACGTGCCCCCTTCTCCCTACTCCACCCCGTCTACCTCAAG  
 GTGCCTCTGCCCGCCGAGCCTTCTCCTTGTGTTACAGGCGCTTGGGAGCCGCGGCTGTACCCCTTCCC  
 GGCCAGGACACGGAGCTCGTAGGCGCTGCGACCTGGCGCTGCTAAGCTGTGCCACGCTGTGAGTGGGT  
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 AAGACACAGCCCCAGGCTTGGGTCTGGCACCCCTCGGCCACCCTGGTGTCAATTATCCTCTGTATCGGATTG  
 TAACCTACGCGCTCATTGCTGCGCTCTGACAGTGACGAGGCTGCCCTGCCGCCCTCCCCGCGGCT  
 TCTCCGCTCGCGCCTCACCCAGCACCAATCCTCTCGTGGACGTGGAGTTGGAGAGCTTCAAGAAGGACC  
 CCCGGCAGTCACTTACGCCACCCACGCTACTGCCGCCACGCTGTGAGCCGTGGACACAGGCGGACGCC  
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 GCCGCCACCACCCTCACTTTTGGCCGACACTCAGCATCTCGCTCCAAGCAGGCCAGACTCCAGAGAGCCCT  
 GAAACTGGTCTCCTTTGGCCGACACTCAGCATCTCGCTCCAAGCAGGCCAGACTCCAGAGAGCCCT  
 GGGCCCCCAGCGTGAACCCACGTTGCTGGACATGGACATGGAGGGCCAGAGCCAGGACAATACAGTGC  
 CCTATGTGGGTCTATGGCTCTCAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG215590 representing NM\_001081292  
 Red=Cloning site Green=Tags(s)

MEEEEGAAAREWGATPAGPVWTVAFDYEAVGDEELTLRRGDRVQVLSQDCAVSGDEGWWTGQLPSGRVGV  
 FPSNYVAPAAPAAPSDLQLPQEIPFHELQLEEIIIGVGGFGKVYRAVWRGEEVAVKAARLDPERDPAVTAE  
 QVRQEARLFGALQHPNIIALRGACLSPNNLCLVMEYARGGALSRVLAGRRVPPHVLVNWAVQVARGMNYL  
 HNDAPVPIIHRDLKSINILILEAIENHNLADTVLKITDFGLAREWHKTTKMSAAGTYAWMAPEVIRLSLF  
 SKSSDVVWVSGVLLWELLTGEVYPYREIDALAVAYGVAMNKLTLPSTCPEPFARLLEECWDPDPHGRPDF  
 GSILKQLEVIEQSALFQMPLESFHSLSQEDWKLEIQHMFDDLRTKEKELRSREEELLRAAQEQRFQEEQLR  
 RREQELAEREMDIVERELHLLMSQLSQEKPRVRKRKGNFKRSRLKLRREGSSHISLPSGFEHKITVQASP  
 TLDKRKGS DGASPPASPSIIPRLRAIRLTPMDCGGSSSGTWSRSGPPKKEELVGGKKKGRTWGPSSTLQ  
 KERAGGEERL KALGEGSKQWSSSAPNLGKSPKHTPMAPGFASLNEMEEFAEADGNNVPPSPYSTPSYLK  
 VPLPAEPSVCVQAPWEPVAVTPSRPGHGARRRCDLALLSCATLLSAVGLGADVAEARAGDGEEQRRWLD  
 LFFPRPGRFRGLSPTGRPGRRREDTAPGLGLAPSATLVSLSSVSDCNSTRLLRSDSDEAAPAAPSPPP  
 SPLAPSPSTNPLVDVELESFKKDPQSLTPHTVTAHAVSRGHRRTPSD GALRQREPLEL TNHGQGRDP  
 LDFPRLPDPQALFPTRRRRPLEFGRPTTLTFAPRPRPAASRPRLDPWKLVSFGRTLSISPPSRPDTPEP  
 GPPSVQPTLLDMDMEGQSQDNTVPLCGVYGSH

TRTRPLE - GFP Tag - V

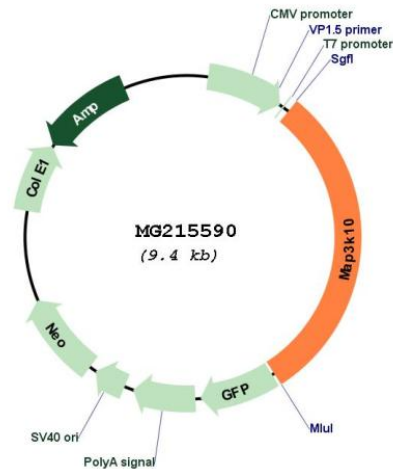
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



**ACCN:** NM\_001081292

**ORF Size:** 2826 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\\_001081292.1](#), [NP\\_001074761.1](#)

**RefSeq Size:** 3690 bp

**RefSeq ORF:** 2829 bp

**Locus ID:** 269881

**Cytogenetics:** 7 A3

**Gene Summary:** Activates the JUN N-terminal pathway.[UniProtKB/Swiss-Prot Function]