

Product datasheet for **MC219259**

Mapk4 (NM_172632) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk4 (NM_172632) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mapk4
Synonyms:	A330097D03Rik; Erk3; p63Mapk; Prkm4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219259 representing NM_172632
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGAGAAAGGTGACTGCATCGCCAGCGTCTACGGGTATGACCTTGGTGGGCGCTTCATTGACTTCC
 AACCCCTTGGCTTTGGGGTCAACGGGCTGGTGCTGCTCAGCTACGGACAGCAGGGCTTGCCGGAAGGTGGC
 CGTGAAGAAGATCGTTCTGAGTGACGCCCGCAGCATGAAGCACGCGCTCCGAGAGATCAAAATCATCCGG
 CGCCTGGACCACGACAACATTGTCAAGGTGTACGAGGTGCTGGGACCAAGGGGAGCGATCTGCAGGGCG
 AGCTCTTCAAGTTTAGCGTGGCCTATATCGTCCAAGAGTACATGGAGACTGACCTGGCGTGCCTGCTGGA
 GCAGGGCACGCTGACTGAGGACCACGCCAAGCTGTTTATGTATCAGTGTCCGTTGGGCTCAAGTACATC
 CACTCTGCGAACGTGCTGCACAGAGACCTGAAGCCCGCAACATTTTATCAGCACGAGGACCTTGTGC
 TCAAGATTGGGGATTTCCGGTTGGCAAGGATCGTGGATCAACATTACTCACACAAGGGTTATCTGTCAGA
 AGGGTTGGTGACAAAGTGGTACCGGTCTCCGAGACTGCTCCTGTCCCAAATAACTACACAAAAGCCATC
 GATATGTGGGCAGCTGGCTGCATCCTGGCAGAGATGCTCACGGGGAAAATGCTCTTCGCTGGGGCTCACG
 AGCTGGAGCAGATGCAGCTCATCTAGACACCATCCCTGTGGTCCGGGAGGAAGACAAGGAGGAGCTGCT
 CAGGGTGTGCCGTCCTTCGTCAGCAGCACCTGGGAGGTGAAGAGGCCACTGCGCAAGCTGCTCCCGGAC
 GTCAACAGTGAAGCCATTGACTTTCTGGAGAAGATCCTGACCTTTAACCCCATGGACCGCTTAACAGCTG
 AGATGGGGCTTCAGCATCCTTACATGAGCCCGTACTCGTGCCCGGAGGATGAGCCACCTCACAAACCC
 TTTCCGCATTGAGGACGAGATCGACGACATCGTGCTGATGGTGCCAGTCAGAGCCAGCTCTCCAAGTGG
 GACAGGTATCCTGTGAGCCTGTCTCAGATCTGGAATGGCGGCCGACCGGTGCCAGGACGCCAGCGAGG
 TGCAGCGCGATCCAGTGCAGGCTCTACACCGCTGGCGGAGGATGTTTCAAGTGGACCCAGCAAGGACTC
 ACAGAGCAGTCCGAGCGCTTCTGGAGCAGTCACACTCGTCCATGGAGCGCGCCTTCGAGCCGACTAT
 GGACGGTCTCGACTACAAAGTGGGGTCTCCATCCTACCTGGACAAGCTACTGTGGCGGACAACAAGC
 CCCACCACTACTCGAAACCAAGCTCATCTGGACCTGTCGCACTGGAAGCAGGCGGCCAGCGCTCCCCC
 CAGGGTGCAGTAGCAGCAGACCCTGTGTACGTGAGGATGAGCCAGCAAGCCTCTTTCTGGAGATTGCA
 CAGTGGGTCAAGAGCACAAAGTGGCTCTGAGCGTGCCAGTCTCCCCCTGATGCCCCAGAGCCCCGTC
 TCTCTGCCTACCCCCGGGACACCAACACCCATCGATGGGGTGCCAGTCCCCAGTTGACTTAGACGT
 GTTCATCTCGCGTCCCTAAAGCTCTGCACCAACCTGAGGACCTCCCGAAAACAACTGGGCGACCTG
 AATGGCGCGTGCATCTCTGAGCACCTGGCGACCTCGTGCAGACAGAGGCCTTCTCAAAGAAAGGTGGT
 GA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_172632
- Insert Size:** 1752 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_172632.2](#), [NP_766220.2](#)

RefSeq Size: 4660 bp

RefSeq ORF: 1752 bp

Locus ID: 225724

UniProt ID: [Q6P5G0](#)

Cytogenetics: 18 E2

Gene Summary: Atypical MAPK protein. Phosphorylates microtubule-associated protein 2 (MAP2) and MAPKAPK5. The precise role of the complex formed with MAPKAPK5 is still unclear, but the complex follows a complex set of phosphorylation events: upon interaction with atypical MAPKAPK5, ERK4/MAPK4 is phosphorylated at Ser-186 and then mediates phosphorylation and activation of MAPKAPK5, which in turn phosphorylates ERK4/MAPK4. May promote entry in the cell cycle.[UniProtKB/Swiss-Prot Function]