

Product datasheet for **MC206256**

Mapk15 (BC048082) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk15 (BC048082) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mapk15
Synonyms:	MGC56865, MGC56903
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC048082
 CGCGGCTGCTGGTCCCAAGCCAACGGATCAACAGGTCCAGCTCCAGAGAAAAGAATCGGTGGACCCCTAG
 AGCCAGCGCTGCCTCTCGCCATGTGTGCTGCCGAGGTGGACCGTCATGTAGCCCAGAGATACCTGATCA
 AGCGGAGGCTTGGGAAGGGGGCCATGGCATTGTGTGGAAGGCCATGGACCGGAGGACTGGCGAGGTTGT
 GGCCATCAAGAAAATCTTTGATGCCTTTAGGGACCAGATAGATGCTCAGAGGACCTTCCGTGAGATTATG
 CTTCTCAAGGAGTTTGGAGGCCATCCCAACATCATCCGCTGCTTGATGTAATCCCAGCGAAGAATGACA
 GGGATATTTACCTGGTGTGTTGAGTCCATGGACACCGACCTGAATGCAGTCATCCAGAAGGGCAGACTACT
 GAAGGACATCCACAAGCGGTGCATCTTTACCAGCTCCTGAGAGCCACCAAGTTTATCCATTCAGGGCGC
 GTCATCCATCGGGATCAGAAGCCAGCCAATGTTCTACTGGATTCTGCTTGCCGGGTGAAACTCTGTGACT
 TTGGCCTGGCACGCTCCCTCGGTGACCTCCCTGAGGGGCTGGGGGTGAGCCCTGACAGAGTATGTGGC
 CACACGCTGGTACCGAGCTCCAGAGGTGCTTCTGTCTTCCCGATGGTATACCCCTGGGGTGGACATGTGG
 AGCCTGGGCTGCATATTAGGAGAGATGCTTCGAGGGCAGCCACTGTTTCCCGGACATCTACTTTCCACC
 AGCTGGAGCTGATCCTGAAGACCATCCCATTGCCTTCCATGGAGGAGCTCCAGGACCTTGGCTCAGACTA
 CAGTGCTTTGATTCTGCAGAATCTTGGTCCAGGCCACAGCAGACGCTGGACGCCCTCCTGCCGCCAGAC
 ACCCCCCAGAAGCCCTGGACCTCCTCAAGCGACTCTTGGCGTTTCTCCGACAAGCGCCTTAGTGACG
 AGCAGGGCTGCAACACCCTACGTGCAGAGATCCATTGCCCGACCGGAGTGGGCACGGGAGTCCGA
 CGTGCGGCTCCCGGTGCACGAAGGAGACCAGCTCTCTGCACCAGAGTATCGCAAACGCCTGTACCAGATT
 ATCCTGGAGCAAAGTGGGAACAGCCGACGCCCTCGAGAGGAAGGCCTGGGGTGTGGCCTCGCGGGCTG
 AGCTCAGGGCTTCCCGGCCCGGACGCAATCGCTCAAGTCGGGAGTCTCCCGGAGTCCCGGGGAGAC
 GCCAGCGCAAACCGGGACCCAAACCTCCGCGTAGCCCTGGTATGATCCTGAGCATGTGGAAGTTCGC
 AGGCAGAGCTCAGACCCCTGTTCCAACCTCCGCCAGGAAGGGGGAAAGGCCCCAGGGGCCACAG
 GGCAGCCACCCTCGGCACCCTCAGGGGTGAAGACTCAAGTGAGGGCGATGGCGCCGTCCCTGACTCACA
 GGCAGAGGCTCAGGCGGCAATCAGGCTCTGATCCGAGTGATCCGGCCGGGGCGGTGGCCGAGGGCG
 GTCGGCGCGGACGGGTCCCTTCCCGCTGCCCGGGAGGCCCGGAACCCGACCCGCGCAAGGATGT
 TTGGCATCTCGGTCTCGCAGGGGCCAGGGCGCAGCCAGAGCTGCGCTTGGCGGCTACTCCAGGCCTA
 CGGGACCGTGTGCCGCTCGGCGCTGGGCGCCTGCCCTGCTCCCGGACCGCGTGCAGCCACCCAC
 CCACCTCCTTGAGGCAACCCGGCGCCGTCCCCAGACCCCAATGCATCTTCTCCCTCCTCTGCCTCCCTG
 CCTTCGAGTTCCCGGAGGTTCTTTGAGCCTCTCTCCCTAAGAAAGAGTAGATGGAAGTCTCCACTCCA
 CCCCCAATACTTTCTTCCAATAAAGTTTTATCTTCTAAAAA A

Restriction Sites: EcoRI-NotI

ACCN: BC048082

Insert Size: 1650 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: [BC048082](#), [AAH48082](#)

RefSeq Size: 1961 bp

RefSeq ORF: 1650 bp

Locus ID: 332110

Cytogenetics: 15 D3

Gene Summary: Atypical MAPK protein that regulates several process such as autophagy, ciliogenesis, protein trafficking/secretion and genome integrity, in a kinase activity-dependent manner (By similarity) (PubMed:25823377). Controls both, basal and starvation-induced autophagy through its interaction with GABARAP, MAP1LC3B and GABARAPL1 leading to autophagosome formation, SQSTM1 degradation and reduced MAP1LC3B inhibitory phosphorylation. Regulates primary cilium formation and the localization of ciliary proteins involved in cilium structure, transport, and signaling. Prevents the relocation of the sugar-adding enzymes from the Golgi to the endoplasmic reticulum, thereby restricting the production of sugar-coated proteins. Upon amino-acid starvation, mediates transitional endoplasmic reticulum site disassembly and inhibition of secretion. Binds to chromatin leading to MAPK15 activation and interaction with PCNA, that which protects genomic integrity by inhibiting MDM2-mediated degradation of PCNA. Regulates DA transporter (DAT) activity and protein expression via activation of RhoA. In response to H₂O₂ treatment phosphorylates ELAVL1, thus preventing it from binding to the PDCD4 3' UTR and rendering the PDCD4 mRNA accessible to miR-21 and leading to its degradation and loss of protein expression (By similarity). Also functions in a kinase activity-independent manner as a negative regulator of growth (By similarity). Phosphorylates in vitro FOS and MBP (By similarity). During oocyte maturation, plays a key role in the microtubule organization and meiotic cell cycle progression in oocytes, fertilized eggs, and early embryos (PubMed:23351492). Interacts with ESRRA promoting its re-localization from the nucleus to the cytoplasm and then prevents its transcriptional activity (By similarity).[UniProtKB/Swiss-Prot Function]