

## Product datasheet for **MC200120**

### Mapk13 (NM\_011950) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mapk13 (NM\_011950) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mapk13  
**Synonyms:** SAPK4; Serk4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC001992 sequence for NM\_011950  
 GGCCGGGAGCCCGGGGAGCCACCGCAACCTCCTCGCAGGACCGCCACCACGGGGTCCGGGATGAGCCT  
 CACTCGGAAAAGGGCTTCTACAAGCAGGACATCAACAAGACTGCCTGGGAGCTACCAAGACCTACCTG  
 GCGCCCGCGCACGTCGGCAGCGGGCCTATGGAGCGGTGTGCTCGGCCATCGACAAGCGGACAGGGGAGA  
 AGGTGGCCATCAAGAAGCTGAGCCGGCCCTTCCAGTCGGAGATCTTTGCCAAGCGCGCTTACCGGAGCT  
 TCTGCTCTGAAGCAGATGCACCATGAGAACGTCATTGGGCTTCTGGATGTCTTACCCCTCGCTCTTCC  
 CTTGCGAGCTTCCATGATTTCTACCTGGTATGCCCTTTCATGCAGACAGACCTACAGAAGATCATGGGGA  
 TGGAAATCAGCGAGGATAAGGTCCAGTACTTGGTGTACCAGATGCTCAAAGGTCTAAAGTACATCCACTC  
 CGCTGGCATCGTCCACAGGGACCTGAAACCGGGCAACCTGGCTGTGAATGAAGACTGTGAGCTGAAGATC  
 CTGGACTTTGGGCTGGCCCGCCACACAGACACTGAGATGACGGGCTATGTGGTGACCCGCTGGTACCGGG  
 CCCCCGAGGTGATCCTCAGCTGGATGCATTACAACCAGACAGTCGACATCTGGTCTGTTGGTTGCATCAT  
 GGCAGAAATGCTGACTGGAAGACACTTCAAGGGCAAGGACTACCTGGACCAGCTGACCCAGATCCTG  
 AAAGTGACTGGGGTGCCAGGTGCCGAGTTCGTGCAGAAGCTGAAAGACAAGCGGCCAAATCCTATATTC  
 AGTCCCTGCCAGAGCCCAAGAAGGATTTACACAGCTTTTCCACGCGCCAGTCCGCAAGCTGCAGA  
 CCTGCTCGACAAGATGCTGGAGCTGGATGTGGACAAGCGTCTGACCGCTGCTCAGGCACTGGCTACCCC  
 TTCTTTGAACCTTCCGGGACCTGAGGAGGAGACAGAGGCCAGCAGCCTTTTGGATGATGCCTTAGAAC  
 ATGAGAACTCAGTGTGGACGAATGGAACAACACATCTACAAGAGATCTCAAACCTTCACTCCATAGC  
 CCGGAAGGACTCACGGCAGCAAGTGGCATGAAGCTGCAGTGACTGATGGCTGGCCTCCATGTAGCCAG  
 GTTGGCCTCCATGTAGCCAGGCTGGCCTTGAGTCTTCCCTCTCTCTTTTGGTCAAGGATCTTACTG  
 TGTAGCCCTGGAGCCCTGGCTAGACTGCAACTCAAGAGATCCACCCACCTCTGTTACCTGGTGGTGGG  
 ATTAAGGCATGCACCACTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI  
**ACCN:** NM\_011950  
**Insert Size:** 1101 bp



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|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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).   |
| <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="#">BC001992</a> , <a href="#">AAH01992</a>  |
| <b>RefSeq Size:</b>           | 1376 bp  |
| <b>RefSeq ORF:</b>            | 1101 bp  |
| <b>Locus ID:</b>              | 26415  |
| <b>UniProt ID:</b>            | <a href="#">Q9Z1B7</a>   |
| <b>Cytogenetics:</b>          | 17 A3.3  |
| <b>Gene Summary:</b>          | <p>Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK13 is one of the four p38 MAPKs which play an important role in the cascades of cellular responses evoked by extracellular stimuli such as proinflammatory cytokines or physical stress leading to direct activation of transcription factors such as ELK1 and ATF2. Accordingly, p38 MAPKs phosphorylate a broad range of proteins and it has been estimated that they may have approximately 200 to 300 substrates each. MAPK13 is one of the less studied p38 MAPK isoforms. Some of the targets are downstream kinases such as MAPKAPK2, which are activated through phosphorylation and further phosphorylate additional targets. Plays a role in the regulation of protein translation by phosphorylating and inactivating EEF2K. Involved in cytoskeletal remodeling through phosphorylation of MAPT and STMN1. Mediates UV irradiation induced up-regulation of the gene expression of CXCL14. Plays an important role in the regulation of epidermal keratinocyte differentiation, apoptosis and skin tumor development. Phosphorylates the transcriptional activator MYB in response to stress which leads to rapid MYB degradation via a proteasome-dependent pathway. MAPK13 also phosphorylates and down-regulates PRKD1 during regulation of insulin secretion in pancreatic beta cells.[UniProtKB/Swiss-Prot Function]</p> |