

Product datasheet for **MC200088**

Dusp6 (BC003869) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dusp6 (BC003869) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dusp6
Synonyms:	MKP3, PYST1, MKP-3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC003869
 GGCGTCTGCTAGGCACCCCGCCTTCTCCTGCAGCTCGACCCCATGATAGATACGCTCAGACCCGTGCCT
 TTCGCGTCGGAATGGCGATCTGCAAGACGGTGTCTGGCTCAACGAGCAGCTGGAGCTGGGCAACGAAC
 GGCTTCTGCTGATGGACTGCCGACCACAGGAGCTGTACGAGTCGTCGCACATCGAATCTGCCATTAATGT
 GGCCATCCCGGCATCATGCTGCGGCGTCTGCAGAAGGCAACCTGCCCGTGCCTGCGCTTTCACGCGC
 TGCGAGGACCGGACCGCTTTACCAGGCGCTGCGGCACCGACACCGTGGTGTGTACGACGAGAATAGCA
 GCGACTGGAATGAGAACACTGGTGGAGAGTCGGTCTCGGGCTGCTGCTCAAGAACTCAAGACGAGGG
 CTGCCGGCGTTCTACCTGGAAGGTGGCTTCAGTAAGTTCCAGGCCGAGTTCCGCCCTGCACTGCGAGACC
 AATCTAGACGGCTCGTGCAGCAGAGTTCCCGCCTTTGCCAGTGTGGGGCTCGGGGGCTGCGGATCA
 GCTCCGACTCTTCTCGGACATTGAGTCTGACCTTGACCGAGACCCCAATAGTGCAACGGACTCTGATGG
 CAGCCCGTGTCCAACAGCCAGCCTTCTTCCCGTGGAGATTTTGCCTTCTTTACCTGGGCTGTGCC
 AAGGACTCGACCAACTTGGACGTGTGGAAGAGTTTGGCATCAAGTACATCTTGAATGTCACCCCAATT
 TGCCCAATCTGTTGAGAATGCGGGCGAGTTCAAATAACAAGCAAATTCCTATCTCGGATCACTGGAGCCA
 AAACCTGTCCCAGTTTTTCCCTGAGGCCATTTCTTTCATAGATGAAGCCCAGGCAAAAACCTGTGGTGT
 CTGGTGCATTGCTTGGCAGGTATCAGCCGCTCTGTACCGTGACAGTGGCGTACCTCATGCAGAAGTCA
 ACCTGTCCATGAACGATGCTTACGACATTGTTAAGATGAAGAAGTCCAACATCTCCCAACTTCAACTT
 CATGGGCCAGCTGCTTGACTTCGAAAGGACCCTGGGACTCAGCAGCCCTTGTGACAAACCGCTCCCACT
 CCGCAGCTGACTTCACCACGCCCTCCAACCAGAACGTCTACCAGGTGGACTCCCTGCAGTCTACGTGAA
 AGGCACCCACCTCTCCTAGCCGGGAGTTGTCCCAATCCTTCAGTTCTCTTGTGAGCAGCATCGACCAGGC
 TGCTTTCTTTCTGTGTGTGGCCCGGTGTCAAAGTGTACCAGCTGTCTGTGTAGACAAGGTTGCCA
 AGTGCAAAATGGTTATTACGGAGGGAGAGATTTGCTCCATTCATTGTTTTTTTGAAGGACAGGACATG
 CTGTCTCTAGATCCAGCAATAGGTTTGTCTGTACCCAGCCTACCCAAGCAGGGACTGGACATCCATC
 CAGATAGAGGGTAGCATAGGAATAGGGACAGGAGCATCTGTTCTTTAAGGCCTTGTATGGCTGTTTCTG
 TTGCATCTGGAACCTAACTATATATATTGTCTTCAAGTGAAGACTGATTCAACTTTGGGTATAGTGGAGCCA
 AAGAGATTTTTAGCTCTGTATTTGCGGTATCGGTTTGAAGACAAAAAAATTAACCTGATACTTTTA
 TCTGATTATTGAAAATTTTATCTTCAATCAGTGTGTTGTTGGCTTGTATTTGTTTTTATC
 TTTGGCTTAAAAGAGATCCAAAGAGAGAAAGAGCAGTATGCCACTTCAAAGTATATGGAATAAATGT
 TCTTTTTAATCCAAAGGTATATTTGCAGCATGCTTGACCTTGTGTACCAATCTGACGGCATTTCGT
 GGATATTACTAAGACTTTGTTATGATGAGGTCTTCAGTCTCTTTCATATATCTTCTGTAACTTTT
 TTTTTCTTAAATGTAGTTTTGACTCTGCCTTACCTTTGTAATTTTGGCTTACAGTGTCTCAAGGGG
 TATTTTGGAAAAACCAAAATTTGGGTTCACTTTTTTTTTTTAAATAACTTCAAGTGTGCTAAACA
 GCATATTACCTCTGTACAAAATCTTCAAGGAGTGTACCTCAAATGCAATACTTTGGTTTGGTTTCTTT
 CCTTTAAAAAAATACGAAACTGGAAGTGTGTATGTGTGCGAGTATGAGCGCCGATTTGGTGGATG
 CAACAGTTGAGAGGAAGGGAGAATTAACTTGCTCCATGATGTTCTGGTGTAAAGTTTTGAGCTGGAAT
 TTATTATAAGAATGTAACCTTAAATTAATAAATAACTATTTTGGCTATTGAAAAAATAAAAAAAA AAA

Restriction Sites: RsrII-NotI

ACCN: BC003869

Insert Size: 1146 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: [BC003869](#), [AAH03869](#)

RefSeq Size: 2383 bp

RefSeq ORF: 1146 bp

Locus ID: 67603

Cytogenetics: 10 D1

Gene Summary: Inactivates MAP kinases. Has a specificity for the ERK family (By similarity). Plays an important role in alleviating acute postoperative pain (PubMed:24155322, PubMed:28405172). Necessary for the normal dephosphorylation of the long-lasting phosphorylated forms of spinal MAPK1/3 and MAP kinase p38 induced by peripheral surgery, which drives the resolution of acute postoperative allodynia (PubMed:24155322). Also important for dephosphorylation of MAPK1/3 in local wound tissue, which further contributes to resolution of acute pain (PubMed:28405172).[UniProtKB/Swiss-Prot Function]