

Product datasheet for MR222688

Dusp6 (NM_026268) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dusp6 (NM_026268) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dusp6
Synonyms:	1300019I03Rik; MKP-3; MKP3; PYST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222688 representing NM_026268 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATAGATACGCTCAGACCCGTGCCCTTCGCGTCGGAAATGGCGATCTGCAAGACGGTGTCTGGCTCA
ACGAGCAGCTGGAGCTGGGCAACGAACGGCTTCTGCTGATGGACTGCCGACCACAGGAGCTGTACGAGTC
GTCACACATCGAATCTGCCATTAATGTGGCCATCCCCGGCATCATGCTGCGGCGTCTGCAGAAGGGCAAC
CTGCCCGTGCCTGCGCTTTCACGCGCTGCGAGGACCGGGACCGCTTACCAGGCGCTGCGGACCGACA
CCGTGGTGTGTACGACGAGAATAGCAGCGACTGGAATGAGAACACTGGTGGAGAGTCGGTCTCGGGCT
GCTGCTCAAGAACTCAAAGACGAGGGCTGCCGGCGTTCACCTGGAAGGTGGCTTCAGTAAGTCCAG
GCCGAGTTCGCCCTGCACTGCGAGACCAATCTAGACGGCTCGTGCAGCAGCAATCCCCGCCCTTGGCCAG
TGCTGGGGCTCGGGGCTGCGGATCAGCTCGGACTCTTCTCGGACATTGAGTCTGACCTTGACCGAGA
CCCCAATAGTGCAACGGACTCTGATGGCAGCCGCTGTCCAACAGCCAGCCTTCCCTCCCGTGGAGATT
TTGCCCTTCTTACCTGGGCTGTGCCAAGGACTCGACCAACTGGACGTGTTGGAAGAGTTGGCATCA
AGTACATCTTGAATGTCACCCCAATTTGCCAATCTGTTGAGAATGCGGGCGAGTTCAAATAACAAGCA
AATTCCTATCTCGGATCACTGGAGCCAAAACCTGTCCAGTTTTCCCTGAGGCCATTTCTTTCATAGAT
GAAGCCCGAGGCAAAAACCTGTGGTGTCCCTGGTGCATTGCTTGGCAGGTATCAGCCGCTGTGACCGTGA
CAGTGGCGTACCTCATGCAGAAGCTCAACCTGTCCATGAACGATGCTTACGACATTGTTAAGATGAAGAA
GTCCAACATCTCCCCAACTTCAACTTTCATGGGCCAGCTGCTTGACTTCGAAAGGACCCTGGGACTGAGC
AGCCCTTGTGACAACCGTGTCCCACTCCGCAGCTGACTTACCACGCCCTCCAACCAGAACGTCTACC
AGGTGGACTCCCTGCAGTCTACG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222688 representing NM_026268
Red=Cloning site Green=Tags(s)

MIDTLRPVPFASEMAICKTVSWLNEQLELGNERLLLMDCRPQEL YESSHIESAINVAIPGIMLRRLQKGN
 LPVRALFTRCEDRDRFTRRCGTDVVLYDENSSDWNENTGGESVLGLLLKKLKDEGCRAFYLEGGFSKFQ
 AEFALHCETNLDGSCSSSPPLPVLGLGLRISDSSSDIESDLDRDPNSATSDGSPLSNSQPSFPVEI
 LPFLYLGC AKDSTNLDVLEEFGIKYILNVTPNLPNLFENAGEFKYKQIPI SDHWSQNL SQFFPEAISFID
 EARGKNCVGLVHCLAGISRSVTVTVAYLMQKLNLSMNDAYDIVKMKKSNI SPNFNFMQLLDFERTLGLS
 SPCDNRVPTPQLYFTTPSNQNVYQVDSLQST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9033_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_026268

ORF Size: 1143 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_026268.3](#), [NP_080544.1](#)

RefSeq Size: 2814 bp

RefSeq ORF: 1146 bp

Locus ID: 67603

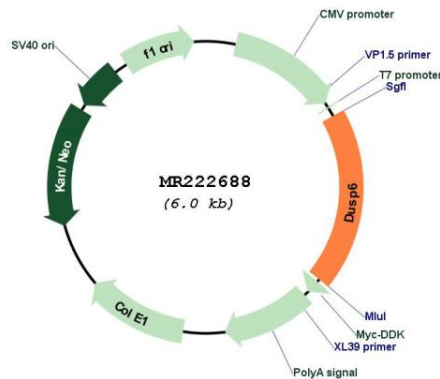
UniProt ID: [Q9DBB1](#)

Cytogenetics: 10 D1

MW: 42.9 kDa

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]

Product images:



Circular map for MR222688