

Product datasheet for MR204590

Dusp2 (NM_010090) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dusp2 (NM_010090) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dusp2
Synonyms:	PAC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204590 representing NM_010090 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGATCGCCATGGGGCTGGAGACGGCGTGCAGCTAGAGTGC CGCGCGCTGGGCGCGCTGCTGCGGG
AGCCGCGGGAGGCCGAGCGCACGCTGCTGCTCGACTGCCGCCGTTCTGGCCTTCTGCCGGAGCCACGT
GCGCGCCGCGGACCGGTGCCCTGGAACGCGCTGCTGCGCGCGCTGCGCGGGCACCCCGCCGCTGCC
CTCGCCTGTCTGTTGCCGACCGCGCACTCCGGGCGCGCCTGGGCGCGGGAGCTGGCCCGTCCCGTGG
TGCTGGATGAAAGCAGCGCTGTGGCCGAGCTCCCGCCGACGGCCCGCTCACCTGTGCTAGCCGC
ACTGCAGCACGAGATGCGCGGGGACCCACGACCGTGTGCTTCTTGCAGGCGGTTTCAAAGCTTCCAG
ACGTAAGTCCGGATCTGTGCTCTGAAGCTCCTGCCAGGCCCTGCCTCCTGCTGGGGCCGAAAATAGCA
ACTCTGACCCGAGGGTCCGATCTATGACCAGGGTGGTCTGTGGAATCTTGCCCTACCTGTAAGTGGG
CAGCTGCAACCACTCCTCAGATCTCAGGGCTGCAGGCTGCGGCATCACAGCAGTTCTCAATGTCTCT
GCCAGTGCCTCAACCACTTTGAGGGTCTTTCCATTACAAGAGCATTCCAGTAGAAGATAACCAGATGG
TGGAGATAAGTGCTGGTCCAGGAGGCTATCAGTTCATAGACTCGGTGAAGAATAGTGGGGCCCGGT
GCTGGTGCAGTGCCTGAGTGGCCTCTCGCTCAGCCACCATCTGCCTGGCATACTGATTCAGAGCCAC
CGGGTACGGCTGGACGAGGCCTTGGACTTTGTTAAGCAACGTGGGGAGTCATCTCCCCAACTTCAGTT
TCATGGGGCAGCTGCTACAGCTGGAGACCCAGGTGCTGTGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204590 representing NM_010090
 Red=Cloning site Green=Tags(s)

MPIAMGLETACELECAALGALLREPREAERTLLLD CRPFLAFCRSHVRAARPVPWNALLRRRRARGTPAAA
 LACLLPDRALRRLRGELARAVVLDESSASVAELPPDGAHLLLAALQHEMRGGPTTVCF LRGGFKSFQ
 TYCPDL CSEAPAQALPPAGAENSNSDP RVPIYDQGGPVEILPYL YL GSCNHSSDLQGLQACGITAVLNVS
 ASCPNHFEGLFHYKSIPVEDNQMV EISAWFQEAISFIDSVKNSGGRVLVHCQAGISRSATICLAYLIQSH
 RVRLDEAFDFVKQRRGVI SPNFSFMGQLLQLETQVLCH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9046_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010090

ORF Size: 954 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_010090.2](#), [NP_034220.2](#)

RefSeq Size: 1630 bp

RefSeq ORF: 957 bp

Locus ID: 13537

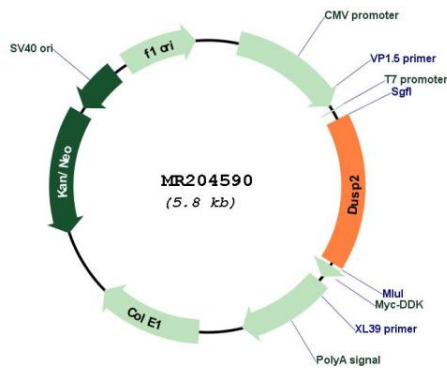
UniProt ID: [Q05922](#)

Cytogenetics: 2 F1

MW: 35 kDa

Gene Summary: Regulates mitogenic signal transduction by dephosphorylating both Thr and Tyr residues on MAP kinases ERK1 and ERK2.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204590