

## Product datasheet for **MG204590**

### Dusp2 (NM\_010090) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dusp2 (NM_010090) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dusp2
Synonyms:	PAC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204590 representing NM_010090 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGATCGCCATGGGGCTGGAGACGGCGTGCGAGCTAGAGTGCGCGGCGCTGGGCGCGCTGCTGCGGG  
AGCCGCGGGAGGCCGAGCGCACGCTGCTGCTCGACTGCCGCCGTTCTGGCCTTCTGCCGGAGCCACGT  
GCGCGCCGCGGACCGGTGCCCTGGAACGCGCTGCTGCGGCGCGTGCGCGGGCACCCCGCCGCTGCC  
CTCGCCTGTCTGTTGCCGACCGCGCACTCCGGGCGCGCCTGGGCGCGGGGAGCTGGCCCGTCCCGTGG  
TGCTGGATGAAAGCAGCGCTGTGTGGCCGAGCTCCCGCCGACGGCCCCGCTCACCTGTGCTAGCCGC  
ACTGCAGCACGAGATGCGCGGGGACCCACGACCGTGTGCTTCTTGCAGGCGGTTTCAAAGCTTCCAG  
ACGTAAGTCCGGATCTGTGCTCTGAAGCTCCTGCCAGGCCCTGCCCTCCTGCTGGGGCCGAAAATAGCA  
ACTCTGACCCGAGGGTCCGATCTATGACCAGGGTGGTCTGTGGAATCTTGCCCTACCTGTAAGTGGG  
CAGCTGCAACCACTCCTCAGATCTTCAGGGCCTGCAGGCCTGCGGCATCACAGCAGTTCTCAATGTCTCT  
GCCAGTGCCCAACCACTTTGAGGGTCTTTCCATTACAAGAGCATTCCAGTAGAAGATAACCAGATGG  
TGGAGATAAGTGCTGGTCCAGGAGGCTATCAGCTTCATAGACTCGGTGAAGAATAGTGGGGGCCGGGT  
GCTGGTGCAGTGCAGGCTGGCATCTCTCGCTCAGCCACCATCTGCCTGGCATACTGATTCAGAGCCAC  
CGGGTACGGCTGGACGAGGCCTTTGACTTTGTTAAGCAACGTGGGGAGTCATCTCCCCAACCTTCAGTT  
TCATGGGGCAGCTGCTACAGCTGGAGACCCAGGTGCTGTGTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204590 representing NM\_010090  
 Red=Cloning site Green=Tags(s)

MPIAMGLETACELECAALGALLREPREAERTLLLD CRPFLAFCRSHVRAARPVPWNALLRRRRARGTPAAA  
 LACLLPDRALRARLGRGELARAVVLDESSASVAELPPDGAHLLLAALQHEMRGGPTTVCF LRGGFKSFQ  
 TYCPDL CSEAPAQALPPAGAENSNSDPRVPIYDQGGPVEILPYL YLGSCNHSSDLQGLQACGITAVLNVS  
 ASCPNHFEGLFHYKSIPVEDNQMVEISAWFQEAISFIDSVKNSGGRV LVHCQAGISRSATICLAYLIQSH  
 RVRLDEAFDFVKQRRGVI SPNFSFMGQLLQLETQVLCH

TRTRPLE - GFP Tag - V

**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

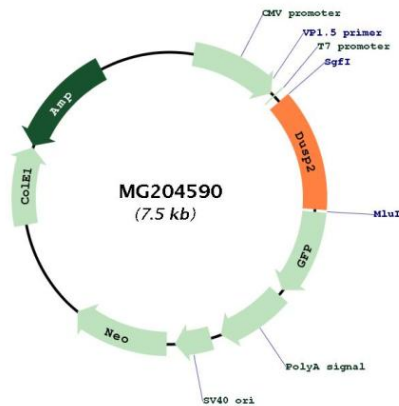
**Locus ID:** 13537

**UniProt ID:** [Q05922](#)

**Cytogenetics:** 2 F1

**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 MG204590