

Product datasheet for **MG222119**

Dusp4 (NM_176933) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Dusp4 (NM_176933) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Dusp4 |
| Synonyms: | 2700078F24Rik; AI844617; BB104621; E130306H24Rik; MKP2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG222119 representing NM_176933 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGACGATGGAGGAAGTGGGGAGATGGACTGCAGCGTGCTCAAAGGCTGATGAACCGGGATGAGA
ACGGCGGGCGGGCGGGCGGCAACAGCAGCGGCAGCCACGGCGCCTTGGGGCTGCTGAGCGGGCAA
GTGCTGCTGCTGGACTGCAGGCCGTTTCTGGCTCACAGCGGGGCTACATCCGAGGCTCGGTGAACGTG
CGCTGCAATACCATCGTGCAGCGGAGGGCAAGGGCTCCGTGAGCCTGGAGCAGATCCTGCCCGCCGAGG
AAGAAGTGCCTGCCCGCCTGCGCTCTGGCCTCTACTCGGCTGTCATCGTCTACGACGAGCGCAGCCCGG
CGCCGAGAGTCTCCGGGAGGACAGCACGGTGTGCTGCTGTCAGGCGTTGCGCCGGAACGCGGAGCGC
ACGGACATCTGCCTGCTTAAAGGTGGCTATGAGAGTTTTCTTCTGAATACCCAGAATTCTGCTCTAAAA
CCAAGGCCCTGGCCGCCATCCCACCCCTGTACCTCCCAGCACCAATGAGTCTTGGACCTGGGCTGCAG
CTCCTGTGGGACCCCGCTGCACGACCAGGGGGCCCTGTGAAATCCTCCCTTCTCTACCTCGGCAGT
GCCTACCATGTGCCCGCAGGGACATGTTGGACGCCCTGGGGATCACGGCCCTCCTGAATGTCTTTCAG
ACTGTCCCAATCACTTTGAGGGTCAATACAGTACAAGTGTATCCCGTCGAAGACAACCACAAGGCCGA
CATCAGCTCCTGGTTCATGGAAGCCATCGAGTACATCGACGCAGTAAAGGACTGTCGAGGGCGAGTGTG
GTTCACTGCCAGCGCCGATCTCCGATCAGCCACCATCTGCCTGGCCTACCTGATGATGAAGAAGCGGG
TGAGGCTGGAGGAGGCTTTTGTGTTTCGTAAGCAGCGCCGAAGCATCATCTCGCCCAACTTCAGCTTCAT
GGGCCAGTTGCTGCAGTTCGAGTCTCAGGTGCTCACCACGTCCTGCGCCCGGAGGCTGCCAGCCCTTCT
GGGCCCTTGGGAGAGGGGAAAGGCCACCCCGACCCCACTCGCAGTTCGTTCTCAGTTCCTGTGT
CTGTGGGCGTGCACGCGGCCCCAGTAACCTGCCGTACCTGCACAGCCCATCACCACTCCCCAGCTG
T

ACGCGTACGGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222119 representing NM_176933
Red=Cloning site Green=Tags(s)

MVTMEELREMDCSVLKRLMNRDENGSGGAGGNSGSHGALGLLSGGKCLLLDCRPFLAHSAGYIRGSVNV
 RCNTIVRRRAKGSVSLEQILPAEEVRRARLRSLYSAVIVYDERSPRAESLREDSTVSLVVQALRRNAER
 TDICLLKGGYERFSSEYPEFCSKTKALAAIPPPVPPSTNESLDLGCSSCGTPLHDQGGPVEILPFLYLGS
 AYHAARRDMLDALGITALLNVSSDCPNHFEGHYQKCIPIVEDNHKADISSWFMEAI EYIDAVKDCRGRVL
 VHCQAGISRSATICLAYLMMKKRVRLEEAFFVKQRRSII SPNFSFMGQLLQFESQVLTTS CAEA EASPS
 GPLRER GKATPTPTSQFVFSFPVSVGVHAAPS NLPYLHSPIT TSPSC

TRTRPLE - GFP Tag - V

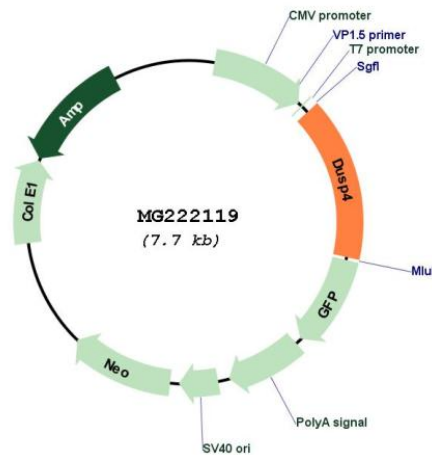
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_176933

| | |
|-------------------------------|--|
| ORF Size: | 1194 bp |
| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| 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: | <ol style="list-style-type: none"> 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_176933.4 , NP_795907.1 |
| RefSeq Size: | 2427 bp |
| RefSeq ORF: | 1197 bp |
| Locus ID: | 319520 |
| UniProt ID: | Q8BFV3 |
| Cytogenetics: | 8 A4 |
| Gene Summary: | Regulates mitogenic signal transduction by dephosphorylating both Thr and Tyr residues on MAP kinases ERK1 and ERK2.[UniProtKB/Swiss-Prot Function] |