

Product datasheet for **MG215943**

Dusp7 (NM_153459) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Dusp7 (NM_153459) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Dusp7 |
| Synonyms: | AU015694; Mkpx; Pyst2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG215943 representing NM_153459 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAAACCAGCTCCGCGGGCCCCAGTGC GGCGCACATGTCGACTTCGGGGGCGGGCGGGCGGGCGG
CGGCTGGGGGCACTCGGGCGGGTCCGAGCCCGGTGCGGGATCTGGGTCCGGCGCAGGCATCGGAGCGGG
AGCGACGACGGGAGCGGGGGCCATGCCCTGCAAGAGCGCCGAGTGGCTGCAGGAGGAGCTGGAGGCGCGC
GGTGGCGCGTCCCTGCTGCTGCTAGATTGCCGGCCGACGAGCTCTTGAATCGTCGACATTGAGACGG
CCATCAACCTGGCCATCCCGGTCTCATGCTGCGCCGCTGCGCAAAGGCAACCTGCCATCCGCTCCAT
CATTCCCAACCATGCCGACAAGGAGCGCTTCGCCACGCGCTGCAAGGCGGCCACCGTGTCTACGAC
GAGGCCACGGCGGAGTGGCAGCCGAGCCCGGGCGCCCCCGCTCCGTTCTCGGCCTGCTCCTGCAGAAGC
TGCGAGACGACGGCTGCCAGGCCACTACCTCCAAGGTGGTTTCAACAAGTTCCAGACGGAATACTCCGA
GCATTGTGAGACTAACGTGGACAGCTCGTCTCCCGAGTGGCTCGCCACCCACCTCCGTGTGGCCCTG
GGGGCCTGCGCATCAGCTCTGACTGCTCAGACGGCGAGTCCGACCGAGAGCTGCCAGCAGTGGCACTG
AGTCGGATGGCAGCCCTGTACCATCCAGCCAGCCGGCCTTCCAGTCCAGATCCTGCCCTACCTCTACCT
CGGCTGTGCCAAGGACTTACCAACCTGGATGTACTTGGCAAATACGGCATCAAATACATCTCAACGTC
ACACCCAACCTGCCAACGCCTTTGAGCACGGTGGTGGTTCACCTACAAGCAAATCCCATCTCTGAC
ACTGGAGCCAGAACCTCTCAGTTCTTCCCGAGGCCATCAGCTTCATTGATGAAGCCCGCTCCAAGAA
GTGTGGTGTCTTGGTGCCTAGCAGGCATCAGCCGTTCAAGTACAGTACTGTAGCCTACCTGATG
CAGAAGATGAACCTGTCCCTCAACGACGCCTATGACTTCGTCAAGAGGAAAAAGTCTAACATCTCGCCCA
ACTTCAACTTCATGGGGCAGCTGCTGGACTTTGAGCGGACGCTGGGGCTCAGCAGCCCATGCGACAACCA
CGCACCCAGTGAGCAGCTCTACTTCTCCAGCCCAACCAACCTGTTCCCGATCAACACGCTCGAG
TCCACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG215943 representing NM_153459
 Red=Cloning site Green=Tags(s)

MKNQLRGPVRAHMSTSGAAAAAAGGTRAGSEPGAGSGSGAGIGAGATTGAGAMPCKSAEWLQEELEAR
 GGASLLLLDCRPHLFESSHIETAINLAIPGLMLRRLRKGNLPIRSIIPNHADKERFATRCKAATVLLYD
 EATAEWQPEPGAPASVLGLLLQKLRDDGCQAYYLQGGFNKFQTEYSEHCETNVDSSSSPSGSPPTSVLGL
 GGLRISSDCSDGESDRELPSSATESDGSPVPSQPAFPVQILPYLYLGCAKDSTNLDVLGKYGIKYILNV
 TPNLPNAFEHGGFTYKQIPISDHWSQNL SQFFPEAISFIDEARSKKCVLVHCLAGISRSVTVTVAYLM
 QKMNLSLNDAYDFVKRKKSNI SPNFNFMGQLLDFERTLGLSSPCDNHAPSEQLYFSTPTNHNLPINTLE
 ST

TRTRPLE - GFP Tag - V

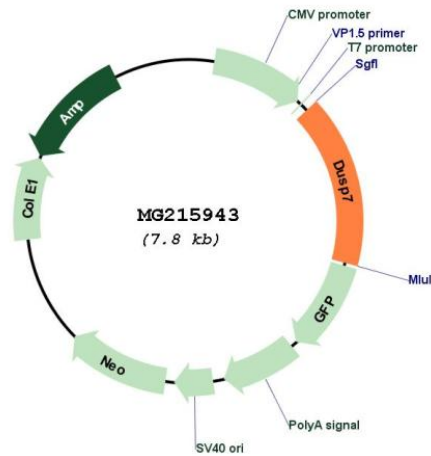
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_153459

| | |
|-------------------------------|---|
| ORF Size: | 1266 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: | <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_153459.4 , NP_703189.3 |
| RefSeq Size: | 3227 bp |
| RefSeq ORF: | 1269 bp |
| Locus ID: | 235584 |
| UniProt ID: | Q91Z46 |
| Cytogenetics: | 9 F1 |
| Gene Summary: | Dual specificity protein phosphatase (PubMed:27783954). Shows high activity towards MAPK1/ERK2 (By similarity). Also has lower activity towards MAPK14 and MAPK8 (By similarity). In arrested oocytes, plays a role in meiotic resumption (PubMed:27783954). Promotes nuclear envelope breakdown and activation of the CDK1/Cyclin-B complex in oocytes, probably by dephosphorylating and inactivating the conventional protein kinase C (cPKC) isozyme PRKCB (PubMed:27783954). May also inactivate PRKCA and/or PRKCG (PubMed:27783954). Also important in oocytes for normal chromosome alignment on the metaphase plate and progression to anaphase, where it might regulate activity of the spindle-assembly checkpoint (SAC) complex (PubMed:27783954).[UniProtKB/Swiss-Prot Function] |