

## Product datasheet for **MG219056**

### Dusp13 (NM\_001007268) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dusp13 (NM\_001007268) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Dusp13  
**Synonyms:** DUSP13A; DUSP13B; Gm1203; LMW-D; LMW-DSP6; MDSP; TMD; TMDP; TS-D; TS-DSP6  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG219056 representing NM\_001007268  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGATGCCTCCATCCCAAACCTGGGGAAGAAAAGAAGCCACACCTTGCCCCAGTATCCTGCAGC  
 TAGAGGAGCTCCTGAGGGCCGGGAGAGCCTCTTGTAGTAGAGTGGATGAAGTCTGGCCCAACCTTTTCAT  
 CGGAGATGCGGCCACGGCAAATAACCGATTTGAGCTGTGGAAGTTGGGGATCACCCATGTGCTGAATGCC  
 GCCCACGGAGGACTCTACTGTCAGGGGGTCTGACTTCTACGGCAGCAGTGTGTCTACCTGGGGATCC  
 CAGCCCACGACCTCCCTGATTTCAATATCAGCCCCTACTTCTCCTCAGCAGCTGACTTCATCCACCGAGC  
 CCTCACCGTACCTGGAGCTAAGGTGCTGGTGCCTGCGTGGTGGGTGTGAGCCGATCTGCCACACTGGTC  
 CTGGCTTACCTCATGCTCCACCAGCAGCTGTCCTTGCAGCAGGCCATAATCACTGTGAGGGAGCGCCGAT  
 GGATCTTCCCAATCGTGGCTTCTCCGACAGCTCTGCCAGCTGGACCAGCAACTTCGGGGTGCAGGTCA  
 GAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG219056 representing NM\_001007268  
 Red=Cloning site Green=Tags(s)

MADASIPKPGEEKEATPCPSILQLEELLRAGRASCSRVDEVPNLFIGDAATANNRFELWKLGITHVLNA  
 AHGGLYCQGGPDFYGSVCYLGI PAHDLPDFNISPYFSSAADFIHRALTVPGAKVLVHCVVGVSRATLV  
 LAYLMLHQQLSLQQAIIIVRERRWIFPNRGFLRQLCQLDQQLRGAGQS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

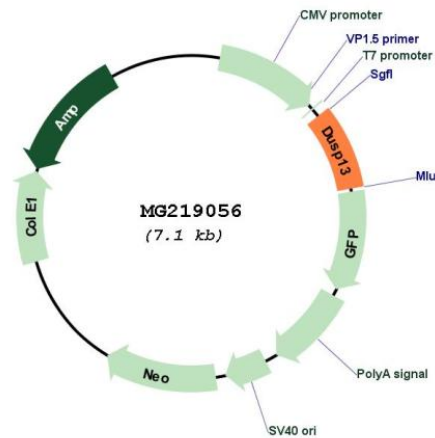


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001007268

ORF Size: 564 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\\_001007268.1](#), [NP\\_001007269.1](#)

**RefSeq Size:** 1745 bp

**RefSeq ORF:** 567 bp

**Locus ID:** 27389

**UniProt ID:** [Q6B8I0](#)

**Cytogenetics:** 14 A3

**Gene Summary:** Members of the protein-tyrosine phosphatase superfamily cooperate with protein kinases to regulate cell proliferation and differentiation. This superfamily is separated into two families based on the substrate that is dephosphorylated. One family, the dual specificity phosphatases (DSPs) acts on both phosphotyrosine and phosphoserine/threonine residues. This gene encodes different but related DSP proteins through the use of non-overlapping open reading frames, alternate splicing, and presumed different transcription promoters. Expression of the distinct proteins from this gene has been found to be tissue specific and the proteins may be involved in postnatal development of specific tissues. A protein encoded by the upstream ORF was found in skeletal muscle, whereas the encoded protein from the downstream ORF was found only in testis. In humans, a similar pattern of expression was found. Multiple alternatively spliced transcript variants were described, but the full-length sequence of only some were determined. [provided by RefSeq, Jul 2008]