

## Product datasheet for **RG211820**

### DUSP10 (NM\_144729) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DUSP10 (NM\_144729) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** DUSP10  
**Synonyms:** MKP-5; MKP5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG211820 representing NM\_144729  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGCGGCTGAACATCGGCTACGTCATCAACGTCACCACTCATCTTCCCCTCTACCACTATGAGAAAG  
GCCTGTTCAACTACAAGCGGCTGCCAGCCACTGACAGCAACAAGCAGAACCTGCGGCAGTACTTTGAAGA  
GGCTTTTGAGTTCATTGAGGAAGCTCACCAGTGTGGGAAGGGCTTCTCATCCACTGCCAGGCTGGGGTG  
TCCCGCTCGCCACCATCGTCATCGTTACTTGATGAAGCACACTCGGATGACCATGACTGATGCTTATA  
AATTTGTCAAAGGCAAACGACCAATTATCTCCCAAACCTTAACCTCATGGGGCAGTTGCTAGAGTTCGA  
GGAAGACCTAAACAACGGTGTGACACCGAGAATCCTTACACCAAAGCTGATGGGCGTGGAGACGGTTGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG211820 representing NM\_144729  
**Red**=Cloning site **Green**=Tags(s)

MQRLNIGYVINVTTHLPLYHYEKGLFNYKRLPATDSNKQNLRYFEEAFEFIEEAHQCGKLLIHCQAGV  
SRSATIVIAYLMKHTRMTMDAYKFVKGKRPPIISPFLNFMQQLLEFEEDLNNGVTPRILTPKLMGVETVV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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Cloning Scheme:



ACCN: NM\_144729

ORF Size: 420 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.

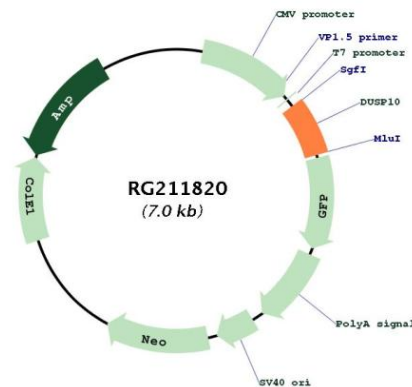
RefSeq: [NM\\_144729.2](#), [NP\\_653330.1](#)

RefSeq Size: 1765 bp

RefSeq ORF: 422 bp

**Locus ID:** 11221  
**Cytogenetics:** 1q41  
**Domains:** DSPc  
**Protein Families:** Druggable Genome, Phosphatase  
**Protein Pathways:** MAPK signaling pathway  
**Gene Summary:** Dual specificity protein phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the MAP kinase superfamily, which is associated with cellular proliferation and differentiation. Different members of this family of dual specificity phosphatases show distinct substrate specificities for MAP kinases, different tissue distribution and subcellular localization, and different modes of expression induction by extracellular stimuli. This gene product binds to and inactivates p38 and SAPK/JNK. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]

### Product images:



Circular map for RG211820