

## Product datasheet for **RG218231**

### DUSP21 (NM\_022076) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DUSP21 (NM\_022076) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** DUSP21  
**Synonyms:** LMWDSP21  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG218231 representing NM\_022076  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAGCATCCGCGTCTCTTTTCATCATCTCAGGGTGTCCAGCAGCCCTCCATCTACAGTTCTCCC  
AAATAACCAGAAGCTTGTCTCAGCAATGGTGTGGCCGCAACGACAACTCCTTCTGTCCAGCAATCG  
CATCACCGCCATTGTCAATGCCTCGGTGGAAGTGGTCAACGTATTCTCGAGGGCATTAGTACATAAAG  
GTGCTGTACCGATGCTCGTACTCGCGTCTCTACGACTTTTTTGACCCATTGCTGATCTTATCCACA  
CCATCGATATGAGGCAGGCGGTACGCTGCTGCACTGCATGGCTGGAGTGAGCCGTTCCGCCTACTGTG  
CCTTGCCTACCTCATGAAATACCACTCCATGTCGCTGCTGGACGCCCATACATGGACCAAGTCGCGCCGC  
CCCATCATCCGGCCCAACAACGGCTTTTGGGAACAGCTCATCAATTACGAATTAAGCTGTTAATAACA  
ACACCGTGCATGATCAACTCGCCGTTAGGTAACATCCCTGACATCTATGAGAAGGACCTACGTACGAT  
GATATCAATG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG218231 representing NM\_022076  
Red=Cloning site Green=Tags(s)

MTASASSFSSSQGVQPSIYSFSQITRSLFLSNGVAANDKLLSSNRITAIVNASVEVVNVFFEGIQYIK  
VPVTDARDSRLYDFDPIADLIHTIDMRQRTLLHCMAGVSRASLCLAYLMKYHMSLLDAHTWTKSRR  
PIIRPNNGFWEQLINYEKLFNNNTVRMINSVGNIPDIYEKDLRTMISM

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



[View online »](#)

**Cloning Scheme:**


**ACCN:** NM\_022076

**ORF Size:** 570 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\\_022076.2](#), [NP\\_071359.2](#)

**RefSeq Size:** 889 bp

**RefSeq ORF:** 573 bp

**Locus ID:** 63904

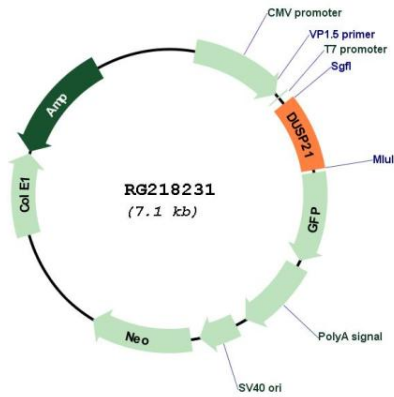
**UniProt ID:** [Q9H596](#)

**Cytogenetics:** Xp11.3

**Protein Families:** Druggable Genome, Phosphatase

**Gene Summary:** This gene encodes a member of the dual specificity phosphatase family, specifically the low molecular weight dual specificity phosphatase family. The encoded protein localizes to both the cytoplasm and the nucleus and functions to remove phosphate groups from phosphotyrosine and phosphothreonine residues.[provided by RefSeq, Mar 2009]

**Product images:**



Circular map for RG218231