

## Product datasheet for **RG219496**

### DUSP18 (NM\_152511) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DUSP18 (NM_152511) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DUSP18
Synonyms:	DSP18; DUSP20; LMWDSP20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219496 representing NM_152511 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAGCACCCCTCGTGTGCCTCCAGTTCAGTCCGGCAGCCCTCAGTCAGCGGCTCTCGCAGATAA  
CCAAAAGCCTGTATATCAGCAATGGTGTGGCCGCAACAACAAGCTCATGCTGTCTAGCAACCAGATCAC  
CATGGTCATCAATGTCTCAGTGGAGGTAGTGAACACCTTGTATGAGGATATCCAGTACATGCAGGTACCT  
GTGGCTGACTCCCCTAACTCACGTCTCTGTGACTTCTTTGACCCTATTGCTGACCATATCCACAGCGTGG  
AGATGAAGCAGGGCCGTACTTTGCTGCACTGTGCTGCTGGTGTGAGCCGCTCAGCTGCCCTGTGCCTCGC  
CTACCTCATGAAGTACCACGCCATGTCCCTGCTGGACGCCACACGTGGACCAAGTCATGCCGGCCATC  
ATCCGACCCAACAGCGGCTTTTGGGAGCAGCTCATCCACTATGAGTTCCAATTGTTGGCAAGAACACTG  
TGACATGGTCAGTTCCCAGTGGGAATGATCCCTGACATCTATGAGAAGGAAGTCCGTTTGATGATTCC  
ACTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>RG219496 representing NM_152511 Red=Cloning site Green=Tags(s)
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MTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKMLSSNQITMVINVSVEVVNTLYEDIQYMQVP  
VADSPNSRLCDFDPIADHIHSEVMKQGRLLHCAAGVSRSAALCLAYLMKYHAMSLLDAHTWTKSCRPI  
IRPNSGFWEQLIHYEFLFGKNTVHMVSSPVGMIPDIYEKEVRLMIPL

**TRTRPLE** - GFP Tag - V

Restriction Sites:	Sgfl-MluI
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**Cloning Scheme:**


**ACCN:** NM\_152511

**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\\_152511.5](#)

**RefSeq Size:** 2453 bp

**RefSeq ORF:** 567 bp

**Locus ID:** 150290

**UniProt ID:** [Q8NEJ0](#)

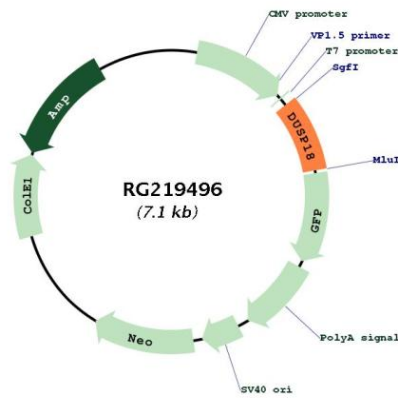
**Cytogenetics:** 22q12.2

**Domains:** DSPc

**Protein Families:** Druggable Genome, Phosphatase

**Gene Summary:** Dual-specificity phosphatases (DUSPs) constitute a large heterogeneous subgroup of the type I cysteine-based protein-tyrosine phosphatase superfamily. DUSPs are characterized by their ability to dephosphorylate both tyrosine and serine/threonine residues. They have been implicated as major modulators of critical signaling pathways. DUSP18 contains the consensus DUSP C-terminal catalytic domain but lacks the N-terminal CH2 domain found in the MKP (mitogen-activated protein kinase phosphatase) class of DUSPs (see MIM 600714) (summary by Patterson et al., 2009 [PubMed 19228121]).[supplied by OMIM, Dec 2009]

**Product images:**



Circular map for RG219496