

Product datasheet for **RG218804**

DUSP13 (NM_001007271) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DUSP13 (NM_001007271) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DUSP13
Synonyms: BEDP; DUSP13A; DUSP13B; MDSP; SKRP4; TMDP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG218804 representing NM_001007271
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGAGACCTCTCTCCAGAGCTGGGGGAGAGGACAAAGCCACGCCTTGCCCCAGCATCCTGGAGC
 TGGAGGAGCTCCTGCGGGCAGGGAAGTCTTCTTGACCCGTGTGGACGAAGTTGGCCCAACCTTTTCAT
 AGGAGATGCGGCCACGGCAAACAACCGCTTTGAGCTGTGGAAGCTGGGCATCACCCACGTGCTGAACGCC
 GCCACAAGGGCCTCTACTGTCAGGGCGGCCCTGACTTCTACGGCAGCAGTGTGAGCTACCTGGGGTGC
 CAGCCCACGACCTCCCTGATTTTGACATCAGTGCCTACTTCTCCTCTGCGGCTGACTTCATCCACCGTGC
 CCTCAACACGCCTGGGGCAAGGTCCTGGTGCCTGTGTGGTGGGCGTGAGCCGCTCTGCCACGCTGGTC
 CTGGCCTACCTCATGCTGCACCAGCGGCTGTCCCTGCGCCAGGGGTGATCACCGTGAGGCAGCACCGAT
 GGGTCTTCCCAACCGAGGCTTCTGCACCAGCTCTGCAGGCTGGACCAGCAACTGCGGGGTGCCGGCCA
 GAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218804 representing NM_001007271
 Red=Cloning site Green=Tags(s)

MAETSLPELGGEDKATPCPSILELEELLRAGKSSCSRVDVWPNFLFIGDAATANNRFELWKLGITHVLNA
 AHKGLYCQGGPDFYSSVSYLGVPAHDLPDFDISAYFSSAADFIHRALNTPGAKVLVHCVVGVSRATLV
 LAYLMLHQRLSLRQAVITVRQHRWVFPNRGFLHQLCRLDQQLRGAGQS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001007271

ORF Size: 564 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001007271.2](#)

RefSeq Size: 1788 bp

RefSeq ORF: 567 bp

Locus ID: 51207

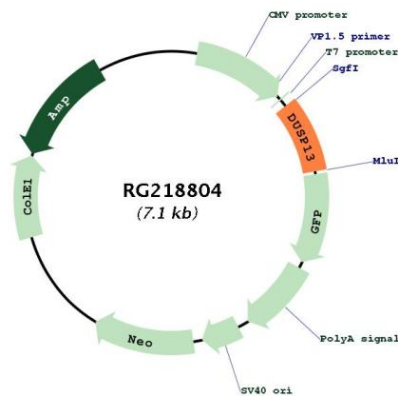
UniProt ID: [Q6B811](#)

Cytogenetics: 10q22.2

Protein Families: Druggable Genome, Phosphatase

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 mouse, 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]

Product images:



Circular map for RG218804