

## Product datasheet for **RG206765**

### **DUSP6 (NM\_001946) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DUSP6 (NM\_001946) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** DUSP6  
**Synonyms:** HH19; MKP3; PYST1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG206765 representing NM\_001946  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATAGATACGCTCAGACCCGTGCCCTTCGCGTCGAAATGGCGATCAGCAAGACGGTGGCGTGGCTCA  
ACGAGCAGCTGGAGCTGGGCAACGAGCGGCTGCTGCTGATGGACTGCCGGCCGAGGAGCTATACGAGTC  
GTCGCACATCGAGTCGGCCATCAACGTGGCCATCCCGGGCATCATGCTCGGGCGCCTGCAGAAGGGTAAC  
CTGCCGGTGC CGCGCTTTCACGCGCGGCGAGGACCGGGACCGCTTACCCGGCGCTGTGGACCGACA  
CAGTGGTCTCTACGACGAGAGCAGCAGCGACTGGAACGAGAATACGGGCGCGAGTCGGTCTCGGGCT  
GCTGCTCAAGAAGCTCAAGGACGAGGGCTGCCGGCGTTCACCTGGAAGGTGGCTTCAGTAAGTTCCAA  
GCCGAGTTCTCCCTGCATTGCGAGACCAATCTAGACGGCTCGTGTAGCAGCAGCTCGCCGCCGTTGCCAG  
TGCTGGGGCTCGGGGCTGCGGATCAGCTCTGACTCTTCTCGGACATCGAGTCTGACCTTGACCGAGA  
CCCCAATAGTGCAACAGACTCGGATGGTAGTCCGCTGTCCAACAGCCAGCCTTCTTCCAGTGGAGATC  
TTGCCCTTCTCTACTTGGGCTGTGCCAAAGACTCCACCAACTTGGACGTGTTGGAGGAATTCGGCATCA  
AGTACATCTTGAACGTCACCCCAATTTGCCGAATCTCTTTGAGAACGCAGGAGAGTTTAAATACAAGCA  
AATCCCCATCTCGGATCACTGGAGCCAAACCTGTCCCAGTTTTCCCTGAGGCCATTTCTTTCATAGAT  
GAAGCCCGGGCAAGAAGCTGTGGTCTTGGTACATTGCTTGGCTGGCATTAGCCGCTAGCTCACTGTGA  
CTGTGGCTTACCTTATGCAGAAGCTCAATCTGTGATGAACGATGCCTATGACATTGTCAAATGAAAAA  
ATCCAACATATCCCTAACTTCACTTTCATGGGTGAGCTGCTGGACTTCGAGAGGACGCTGGGACTCAGC  
AGCCCATGTGACAACAGGGTTCCAGCACAGCAGCTGTATTTACCACCCCTTCCAACCAGAATGTATACC  
AGGTGGACTCTCTGCAATCTACG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206765 representing NM\_001946  
 Red=Cloning site Green=Tags(s)

MIDTLRPVPFASEMAISKTVAWLNEQLELGNERLLLMDCRPQEL YESSHIESAINVAIPGIMLRRLQKGN  
 LPVRAFTRGEDRDRFTRRCGTDTVVL YDESSSDWNENTGGESVLGLLLKKLKDEGCRAFYLEGGFSKFQ  
 AEFSLHCETNLDGSCSSSPPLPVLGLGLLRISDSSSDIESDLDRDPNSATDSDGSPLSNSQPSFPVEI  
 LPFLYLGC AKDSTNLDVLEEFGIKYILNVTPNLPNLFENAGEFKYKQIPI SDHWSQNL SQFFPEAIFS  
 ID EARGKNCGLVHCLAGISRSVTVTVAYLMQKLNLSMNDAYDIVKMKKSNI SPNFNFMGQLLDFERTLGLS  
 SPCDNRVPAQQLYFTTPSNQNVYQVDSLQST

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001946

**ORF Size:** 1143 bp

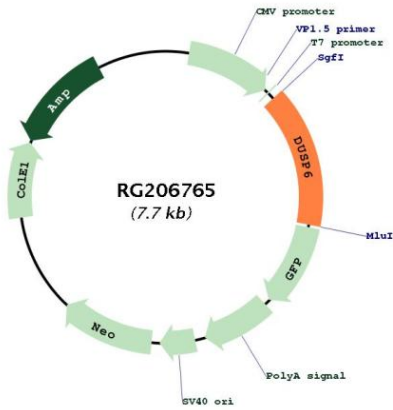
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001946.4</a>
<b>RefSeq Size:</b>	2842 bp
<b>RefSeq ORF:</b>	1146 bp
<b>Locus ID:</b>	1848
<b>UniProt ID:</b>	<a href="#">Q16828</a>
<b>Cytogenetics:</b>	12q21.33
<b>Domains:</b>	DSPc, RHOD
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	MAPK signaling pathway
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product inactivates ERK2, is expressed in a variety of tissues with the highest levels in heart and pancreas, and unlike most other members of this family, is localized in the cytoplasm. Mutations in this gene have been associated with congenital hypogonadotropic hypogonadism. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2014]</p>

Product images:



Circular map for RG206765