

Product datasheet for RC206765

DUSP6 (NM_001946) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: DUSP6 (NM_001946) Human Tagged ORF Clone

Tag:Myc-DDKSymbol:DUSP6

Synonyms: HH19; MKP3; PYST1

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC206765 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGATAGATACGCTCAGACCCGTGCCCTTCGCGTCGGAAATGGCGATCAGCAAGACGGTGGCGTGGCTCA GTCGCACATCGAGTCGGCCATCAACGTGGCCATCCCGGGCATCATGCTGCGGCGCCTGCAGAAGGGTAAC CTGCCGGTGCGCGCTCTTCACGCGCGCGAGGACCGGGACCGCTTCACCCGGCGCTGTGGCACCGACA CAGTGGTGCTCTACGACGAGAGCAGCAGCGACTGGAACGAGAATACGGGCGGCGAGTCGGTGCTCGGGCT GCTGCTCAAGAAGCTCAAGGACGAGGGCTGCCGGGCGTTCTACCTGGAAGGTGGCTTCAGTAAGTTCCAA GCCGAGTTCTCCCTGCATTGCGAGACCAATCTAGACGGCTCGTGTAGCAGCAGCTCGCCGCCGTTGCCAG TGCTGGGGCTCGGGGCCTGCGGATCAGCTCTGACTCTTCCTCGGACATCGAGTCTGACCTTGACCGAGA TTGCCCTTCCTCTACTTGGGCTGTGCCAAAGACTCCACCAACTTGGACGTGTTGGAGGAATTCGGCATCA AGTACATCTTGAACGTCACCCCCAATTTGCCGAATCTCTTTGAGAACGCAGGAGAGTTTAAATACAAGCA CTGTGGCTTACCTTATGCAGAAGCTCAATCTGTCGATGAACGATGCCTATGACATTGTCAAAATGAAAAA ATCCAACATATCCCCTAACTTCAACTTCATGGGTCAGCTGCTGGACTTCGAGAGGACGCTGGGACTCAGC AGCCCATGTGACAACAGGGTTCCAGCACAGCAGCTGTATTTTACCACCCCTTCCAACCAGAATGTATACC AGGTGGACTCTCTGCAATCTACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206765 protein sequence

Red=Cloning site Green=Tags(s)

MIDTLRPVPFASEMAISKTVAWLNEQLELGNERLLLMDCRPQELYESSHIESAINVAIPGIMLRRLQKGN LPVRALFTRGEDRDRFTRRCGTDTVVLYDESSSDWNENTGGESVLGLLKKLKDEGCRAFYLEGGFSKFQ AEFSLHCETNLDGSCSSSSPPLPVLGLGGLRISSDSSSDIESDLDRDPNSATDSDGSPLSNSQPSFPVEI LPFLYLGCAKDSTNLDVLEEFGIKYILNVTPNLPNLFENAGEFKYKQIPISDHWSQNLSQFFPEAISFID EARGKNCGVLVHCLAGISRSVTVTVAYLMQKLNLSMNDAYDIVKMKKSNISPNFNFMGQLLDFERTLGLS SPCDNRVPAQQLYFTTPSNQNVYQVDSLQST

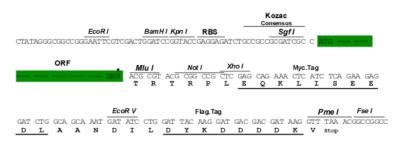
TRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Chromatograms: https://cdn.origene.com/chromatograms/mk6329 h11.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

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 customer.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. <u>More info</u>

DUSP6 (NM_001946) Human Tagged ORF Clone - RC206765

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 001946.4</u>

 RefSeq Size:
 3395 bp

 RefSeq ORF:
 1146 bp

 Locus ID:
 1848

 UniProt ID:
 Q16828

Cytogenetics: 12q21.33

Domains: DSPc, RHOD

Protein Families: Druggable Genome, Phosphatase

Protein Pathways: MAPK signaling pathway

MW: 42.3 kDa

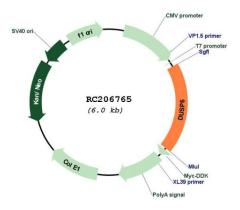
Gene Summary: The protein encoded by this gene is a member of the dual specificity protein phosphatase

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

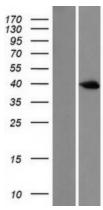
variants have been found for this gene. [provided by RefSeq, Jan 2014]



Product images:



Circular map for RC206765



188 — 98 — 62 — 49 — 38 — 28 — 17 — 14 — 6 — Western blot validation of overexpression lysate (Cat# [LY419629]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206765 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified DUSP6 protein (Cat# [TP306765]). The protein was produced from HEK293T cells transfected with DUSP6 cDNA clone (Cat# RC206765) using MegaTran 2.0 (Cat# [TT210002]).