

## **Product datasheet for TP300640**

## OriGene Technologies, Inc.

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## DUSP4 (NM 001394) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human dual specificity phosphatase 4 (DUSP4), transcript variant 1,

20 µg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone or AA Sequence:

>RC200640 protein sequence Red=Cloning site Green=Tags(s)

MVTMEELREMDCSVLKRLMNRDENGGGAGGSGSHGTLGLPSGGKCLLLDCRPFLAHSAGYILGSVNVRC

Ν

TIVRRRAKGSVSLEQILPAEEEVRARLRSGLYSAVIVYDERSPRAESLREDSTVSLVVQALRRNAERTDI CLLKGGYERFSSEYPEFCSKTKALAAIPPPVPPSATEPLDLGCSSCGTPLHDQGGPVEILPFLYLGSAYH AARRDMLDALGITALLNVSSDCPNHFEGHYQYKCIPVEDNHKADISSWFMEAIEYIDAVKDCRGRVLVHC QAGISRSATICLAYLMMKKRVRLEEAFEFVKQRRSIISPNFSFMGQLLQFESQVLATSCAAEAASPSGPL

RERGKTPATPTSQFVFSFPVSVGVHSAPSSLPYLHSPITTSPSC

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

Tag: C-Myc/DDK
Predicted MW: 42.8 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.





**RefSeq:** NP 001385

 Locus ID:
 1846

 UniProt ID:
 Q13115

 RefSeq Size:
 5625

 Cytogenetics:
 8p12

 RefSeq ORF:
 1182

Synonyms: HVH2; MKP-2; MKP2; TYP

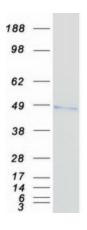
**Summary:** The protein encoded by this gene is a member of the dual specificity protein phosphatase

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 ERK1, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus. Two alternatively spliced transcript variants, encoding distinct isoforms, have been observed for this gene. In addition, multiple polyadenylation sites have been reported. [provided by RefSeq, Jul 2008]

**Protein Families:** Phosphatase

**Protein Pathways:** MAPK signaling pathway

## **Product images:**



Coomassie blue staining of purified DUSP4 protein (Cat# TP300640). The protein was produced from HEK293T cells transfected with DUSP4 cDNA clone (Cat# [RC200640]) using MegaTran 2.0 (Cat# [TT210002]).