

## Product datasheet for TP306765

### DUSP6 (NM\_001946) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human dual specificity phosphatase 6 (DUSP6), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206765 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MIDTLRPVPFASEMAISKTVAWLNEQLELGNERLLLMDCRPQELYESSHIESAINVAIPGIMLRRLQKGN LPVRALFTRGEDRDRFRRCGTDTVVLYDESSSDWNENTGGESVLGILLKLLKDEGCRAFYLEGGFSKFQ AEFSLHCETNLDGSCSSSPPLPVLGLGGLRISSDSSDIESDLDRDPNSATDSDGSPLSNSQSPFVEI LPFLYLGC AKDSTNLDVLEEFGIKYLNVTPNLPNLFENAGEFKYKQIPISDHWSQNLSQFFPEAISFID EARGKNCGVLVHCLAGISRSVTVVAYLMQKLNLSMNDAYDIVKMKKSNI PNFNFMGQLLDFERTLGLS SPCDNRVPAQQLYFTTSPNQNVYQVDSLQST
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	42.1 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:	<a href="#">NP_001937</a>



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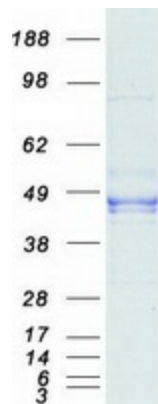
Locus ID:	1848
UniProt ID:	<a href="#">Q16828</a> , <a href="#">A0A024RBC1</a>
RefSeq Size:	3395
Cytogenetics:	12q21.33
RefSeq ORF:	1143
Synonyms:	HH19; MKP3; PYST1

**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]

**Protein Families:** Druggable Genome, Phosphatase

**Protein Pathways:** MAPK signaling pathway

### Product images:



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]).