

## Product datasheet for **TP300371**

### DDX5 (NM\_004396) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human DEAD (Asp-Glu-Ala-Asp) box polypeptide 5 (DDX5)
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200371 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSGYSSDRDRGRDRGFGAPRFGGSRAGPLSGKKFGNPGKLVKKKWNLDLDPKFEKNFYQEHPDLARRTA  
QEVETYRRSKEITVRGHNCPKPVLNIFYANFPANVMDVIARQNFTEPTAIQAQGWPVALSGLDMVGVAQT  
GSGKTLSYLLPAIVHINHQPFLERGDGPICLVLAPTRELAQQVQQAEEYCRACRLKSTCIYGGAPKGPQ  
IRDLERGVEICATPGRLLDFLECGKTNLRRTTYLVLDEADRMLDMGFEPQIRKIVDQIRPDRQTLMWSA  
TWPKEVRQLAEDFLKDYIHINIGALELSANHNILQIVDVCHDVEKDEKLIRLMEEIMSEKENKTIVFVET  
KRRCDLTRKMRRDGWPAMGIHGDKSQQERDWVLEFKHGKAPILIATDVASRGLDVEDVKFVINYDYPN  
SSEDIYHRIGRTARSTKTGTAYTFFTPNNIKQVSDLSVLREANQAINPKLLQLVEDRGSGRSRGRGGMK  
DDRRDRYSAGKRGGFNTFRDRENYDRGYSSLLKRDGAKTQNGVYSAANYTNGSFGSNFVSAGIQTSFRT  
GNPTGTYQNGYDSTQQYGSNVPNMHNGMNNQAYAYPATAAAPMIGYPMPTGYSQ

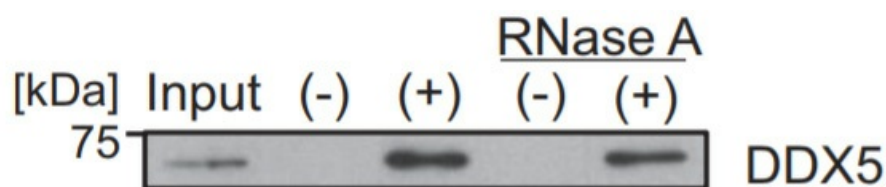
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	69 kDa
Concentration:	>50 ug/mL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol
Bioactivity:	Phosphorylation substrate (PMID: <a href="#">25649741</a> ) Binding assay (PMID: <a href="#">27148684</a> )
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Storage:	Store at -80°C.

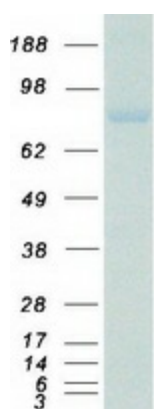


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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_004387</a>
<b>Locus ID:</b>	1655
<b>UniProt ID:</b>	<a href="#">P17844</a>
<b>RefSeq Size:</b>	3769
<b>Cytogenetics:</b>	17q23.3
<b>RefSeq ORF:</b>	1842
<b>Synonyms:</b>	G17P1; HLR1; HUMP68; p68
<b>Summary:</b>	This gene encodes a member of the DEAD box family of RNA helicases that are involved in a variety of cellular processes as a result of its role as an adaptor molecule, promoting interactions with a large number of other factors. This protein is involved in pathways that include the alteration of RNA structures, plays a role as a coregulator of transcription, a regulator of splicing, and in the processing of small noncoding RNAs. Members of this family contain nine conserved motifs, including the conserved Asp-Glu-Ala-Asp (DEAD) motif, important to ATP binding and hydrolysis as well as RNA binding and unwinding activities. Dysregulation of this gene may play a role in cancer development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2017]
<b>Protein Pathways:</b>	Spliceosome

**Product images:**


DDX5 binds to resveratrol regardless of the digestion of RNA by RNase A treatment. Purified recombinant DDX5 (1 ug) (OriGene TP300371) with or without RNase A treatment was incubated with the resveratrol-immobilized beads, and the bound DDX5 was detected by Western blotting. The input lane corresponds to recombinant DDX5 protein (150 ng). Figure cited from Cell Death Dis, PMID: 27148684



Coomassie blue staining of purified DDX5 protein (Cat# TP300371). The protein was produced from HEK293T cells transfected with DDX5 cDNA clone (Cat# [RC200371]) using MegaTran 2.0 (Cat# [TT210002]).