

## Product datasheet for PH304171

### DDX3 (DDX3X) (NM\_001356) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	DDX3X MS Standard C13 and N15-labeled recombinant protein (NP_001347)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204171
Predicted MW:	73.2 kDa
Protein Sequence:	>RC204171 protein sequence Red=Cloning site Green=Tags(s)

MSHVAVENALGLDQQFAGLDLNSSDNQSGGSTASKGRYIPPHLRNREATKGFYDKDSSGWSKDKDAYS  
SFGSRSDSRGKSSFFSDRGSGSRGRFDDRGRSDYDGI GSRGDRSGFGKFERGGNSRWCDKSDDEDDWSKPL  
PPSERLEQELFSGGNTGINFEKYDDIPVEATGNPCPHIESFSDVEMGEIIMGNIELTRYTRPTPVQKHA  
IPIIIEKRDLMACAQTGSGKTAFFLLPILSQIYSDGPEALRAMKENGRYGRRKQYPI SLVLAPTRELAV  
QIYEEARKFSYRSRVRPCVVYGGADIGQQIRDLERGCHLLVATPGRLVDMMERGKIGLDFCKYLVLDEAD  
RMLDMGFEPQIRRIVEQDTMPPKGV RHTMMFSATFPKEIQMLARDFLDEYIFLAVGRVGSTENITQKVV  
WVEESDKRSFLDLLNATGKDSLTLVFVETKKGADSLEDFLYHEGYACTSIHGDRSQRDREALHQFRSG  
KSPILVATAVAARGLDISNVKHVINFDLPDIEEYVHRIGRTGRVGNLGLATSFNERNINITKDLLDLL  
VEAKQEVPSWLENMAYEHYKSSRGRSKSSRFSGGF GARDYRQSSGASSSSFSSSRASSRSRGGGGHGS  
SRGFGGGGYGGFYNSDGYGGNYNSQGV DWWGN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001347</a>
RefSeq Size:	5433



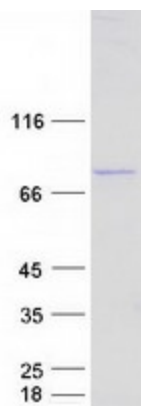
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RefSeq ORF:	1986
Synonyms:	CAP-Rf; DBX; DDX3; DDX14; HLP2; MRX102; MRXSSB
Locus ID:	1654
UniProt ID:	<a href="#">O00571</a>
Cytogenetics:	Xp11.4

**Summary:** The protein encoded by this gene is a member of the large DEAD-box protein family, that is defined by the presence of the conserved Asp-Glu-Ala-Asp (DEAD) motif, and has ATP-dependent RNA helicase activity. This protein has been reported to display a high level of RNA-independent ATPase activity, and unlike most DEAD-box helicases, the ATPase activity is thought to be stimulated by both RNA and DNA. This protein has multiple conserved domains and is thought to play roles in both the nucleus and cytoplasm. Nuclear roles include transcriptional regulation, mRNP assembly, pre-mRNA splicing, and mRNA export. In the cytoplasm, this protein is thought to be involved in translation, cellular signaling, and viral replication. Misregulation of this gene has been implicated in tumorigenesis. This gene has a paralog located in the nonrecombining region of the Y chromosome. Pseudogenes sharing similarity to both this gene and the DDX3Y paralog are found on chromosome 4 and the X chromosome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Protein Families:	ES Cell Differentiation/IPS
Protein Pathways:	RIG-I-like receptor signaling pathway

### Product images:



Coomassie blue staining of purified DDX3X protein (Cat# [TP304171]). The protein was produced from HEK293T cells transfected with DDX3X cDNA clone (Cat# [RC204171]) using MegaTran 2.0 (Cat# [TT210002]).