

## Product datasheet for PH309448

### DDX47 (NM\_016355) Human Mass Spec Standard

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Mass Spec Standards   |
| Description:                          | DDX47 MS Standard C13 and N15-labeled recombinant protein (NP_057439) |
| Species:                              | Human   |
| Expression Host:                      | HEK293  |
| Expression cDNA Clone or AA Sequence: | RC209448  |
| Predicted MW:                         | 50.6 kDa  |
| Protein Sequence:                     | >RC209448 protein sequence<br>Red=Cloning site Green=Tags(s)          |

MAAPEEHDSPTASQPIVEEEETKTFKDLGVTDVLCACDQLGWTKPTKIQIEAIPALQGRDIIIGLAET  
GSGKTGAFALPILNALLETPQRLFALVLTPTRELAFAQISEQFEALGSSIGVQSAVIVGGIDSMSQSLALA  
KKPHIIIAATPGRLIDHLENTKGFNLKALKYLVMEADRILNMDFETEVDKILKVIPRDRKTLFSAATMK  
KVQKLQRAALKNPVKCAVSSKYQTVEKLQYYIFIPSKFKDTYL VYILNELAGNSFMIFCSTCNNTQRTA  
LLLRLNGFTAIPLHGQMSQSKRLGSLNKFKAKARSILLATDVASRGLDIPHVDDVVNFDIPTHSKDYIHR  
VGR TARAGRSKAITFVTQYDVELFQRIEHLIGKKLPGFPQTQDDEVMML TERVAEAQRFARMELEHGEK  
KKRSREDAGDNDDEGAIGVRNKVAGGKMKKRKGR

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                  |  |
|------------------|--|
| 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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:          | <u>NP_057439</u>   |
| RefSeq Size:     | 1836   |
| RefSeq ORF:      | 1365   |
| Synonyms:        | E4-DBP; HQ0256; MSTP162; RRP3  |



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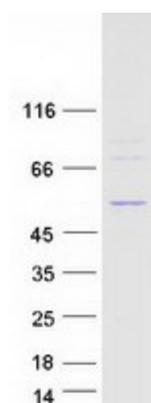
Locus ID: 51202

UniProt ID: [Q9H0S4](#), [A0A024RAS3](#)

Cytogenetics: 12p13.1

**Summary:** This gene encodes a member of the DEAD box protein family. DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure, such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. The protein encoded by this gene can shuttle between the nucleus and the cytoplasm, and has an RNA-independent ATPase activity. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

### Product images:



Coomassie blue staining of purified DDX47 protein (Cat# [TP309448]). The protein was produced from HEK293T cells transfected with DDX47 cDNA clone (Cat# [RC209448]) using MegaTran 2.0 (Cat# [TT210002]).