



# Recombinant Rat Probable ATP-dependent RNA helicase DDX4 (Ddx4)

<b>Product Code</b>	CSB-MP720640RA
<b>Abbreviation</b>	Ddx4
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q64060
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MGDEDWEAEI LKPHVSSYVP VFEKDKYSSG ANGDTFNRTS ASSEMEDGP SGRDHFMRSR FSSGRNLG NR DIGESSKRET TSTTGGFGRG KGFGRNGFLN NKFEEDSSG FWKESTNDCE DTQTRSRGFS KRGGYPDGND SEASGPFRRG GRDSEYDQDQ GSQRGGGLFG SRKPAASDSG SGDTFQSRSG NARGAYKGLN EEVVTGSGKN SWKSEAEGGE SSDIQGPKVT YIPPPPEDE DSIFAHYQTG INFDKYDTIL VEVSGHDAPP AILTFEEANL CQTLNNNIAK AGYTKLTPVQ KYSIPIVLG RDLMACAQTG SGKTA AFLLP ILAHMMRDGI TASRFKELQE PECIIVAPTR ELINQIYLEA RKFSFGTCVR AVVIYGGTQF GHSIRQIVQG CNILCATPGR LMDIIGKEKI GLKQVKYLV L DEADRMLDMG FGPEMKKLIS CPGMPSKEQR QTLIFSATFP EEIQLAGEF LKSNYLFVAV GQVGGACRDV QQSILQVGPV FKKRKLVEIL RNIGDERPMV FVETKKKADF IATFLCQEKI STTSIHGDRE QREREQALGD FRCGKCPVLV ATSVAARGLD IENVQHVINF NLPSTIDEYV HRIGRTGRCG NTGRAISFFD TESDNHLAQP LVKVLSDAQQ DVP AWLEEIA FSSYAPPSFS NSTRGAVFAS FDTRKNFQ GK NTLNTAGISS AQAPNPVDDE SWD
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Ddx4
<b>Protein Names</b>	Recommended name: Probable ATP-dependent RNA helicase DDX4 EC=3.6.4.13 Alternative name(s): DEAD box protein 4 Vasa homolog Short name=rVLG
<b>Expression Region</b>	1-713
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	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. This gene encodes a DEAD box protein, which is a homolog of VASA proteins in *Drosophila* and several other species. The gene is specifically expressed in the germ cell lineage in both sexes and functions in germ cell development. Multiple transcript variants encoding different isoforms have been found for this gene.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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