

Recombinant Human DDX4, GST-tagged

Cat. No. DDX4-11904H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DDX4 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	35-198a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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GENE INFORMATION

Gene Name	DDX4 DEAD (Asp-Glu-Ala-Asp) box polypeptide 4 [Homo sapiens]
Official Symbol	DDX4
Synonyms	DDX4; DEAD (Asp-Glu-Ala-Asp) box polypeptide 4; DEAD/H (Asp Glu Ala Asp/His) box polypeptide 4; probable ATP-dependent RNA helicase DDX4; VASA; vasa homolog; DEAD box protein 4; DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 4; MGC111074;
Gene ID	54514
mRNA Refseq	NM_001142549
Protein Refseq	NP_001136021
MIM	605281
UniProt ID	Q9NQI0
Chromosome Location	5p15.2-p13.1
Function	ATP binding; ATP-dependent helicase activity; helicase activity; hydrolase activity; nucleic acid binding; nucleotide binding;

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