

## Recombinant Human DDX55, His-tagged

**Cat. No.** DDX55-28326TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment, corresponding to amino acids 1-574 of Human DDX55 with N terminal His tag; Predicted MWt 67 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 1-574 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | <p>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. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of only one transcript has been confirmed.</p> |
| <b>Conjugation</b>      | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>             | Lyophilised:Reconstitute with 126 µl aqua dest.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage buffer</b>   | Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Sequences of amino acids</b> | <p>MEHVTEGSWESLPVPLHPQVLGALRELGFYMPVQSATI PLFMRNKDVAAEAVTG</p> <p>SGKTLAFVIPILEILLRREEKL KKSQVGAIITPTRELAIQIDEVLSHFTKHFPEFSQIL WI</p> <p>GGRNPGEDVERFKQQGGNIIVATPGRLED MFRRKAE GLDLASCVRSLDVLVLDEAD</p> <p>RLLDMGFEASINTILEFLPK QRRTGLFSATQTQEVENLVRAGLRNPVRVSVKEKGVA</p> <p>A SSAQKTPSRLENYYMVCKADEKFNQLVHFLRNHKQEKH LVFFSTCACVEYYGKA</p> <p>LEVLVKGVKIMCIHGKMKYKRN KIFMEFRKLQSGILVCTDVMARGIDIPEVNWVLQY</p> <p>DPP SNASAFVHRCGRTARIGHGGSALVLLPMEESYINFLAIN QKCPLQEMKPQRN</p> <p>TADLLPKLKSMALADRAVFEKGMKA FVSYYQAYAKHECNLIFRLKDLDFASLARGFA</p> <p>LLRMPK MPELRGKQFPDFVPVDVNTDTIPFKDKIREKQRQKLE QQRREKTENEG</p> <p>RRKFIKNKAWSKQKAKKEKKKKMNEKRKREEGSDIEDEDMEELLNDTRLLKCLKKG</p> <p>KITEEEF</p> |
| <b>Sequence Similarities</b>    | <p>Belongs to the DEAD box helicase family. DDX55/SPB4 subfamily. Contains 1</p> <p>helicase ATP-binding domain. Contains 1 helicase C-terminal domain.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | DDX55 DEAD (Asp-Glu-Ala-Asp) box polypeptide 55 [ Homo sapiens ]                              |
| <b>Official Symbol</b> | DDX55                                                                                         |
| <b>Synonyms</b>        | DDX55; DEAD (Asp-Glu-Ala-Asp) box polypeptide 55; ATP-dependent RNA helicase DDX55; KIAA1595; |
| <b>Gene ID</b>         | 57696                                                                                         |
| <b>mRNA Refseq</b>     | NM_020936                                                                                     |
| <b>Protein Refseq</b>  | NP_065987                                                                                     |

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|----------------------------|---------------------------------------------------------------------------------------------------|
| <b>Uniprot ID</b>          | Q8NHQ9                                                                                            |
| <b>Chromosome Location</b> | 12q24.31                                                                                          |
| <b>Function</b>            | ATP binding; ATP-dependent helicase activity; RNA binding; helicase activity; hydrolase activity; |

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