

## Product datasheet for TP526455

### Ddx4 (NM\_001145885) Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse DEAD (Asp-Glu-Ala-Asp) box polypeptide 4 (Ddx4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR226455 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MGDEDWEAEILKPHVSSYVPVFEKDKYSSGANGDTFNRTSASSEMEDGPSGRDDFMRSGFPSGRSLGSRD IGESSKENTSTTGGFGRGKGFNGRFLNKFEEGDSSGFWKESNNDCEDNQTRSRGFSKRGGCQDGNDS EASGPFRRGGRGSFRGCRGGFGLGRPNSESQDQGTQRRGGGLFGRKPAASDSGNGDQYQSRSGSRGGY KGLNEEVTGSGKNSWKSETEGGESDSDQPKVYIPPPPEDEDSIFAHYQTGINFDKYDTILVEVSGH DAPPAILTFEEANLCQTLNNNIAKAGYTKLTPVQKYSIPIVLAGRDLMACAQTGSGKTA AFLLPILAHMM RDGITASRFKELQEPECIIVAPTRELINQIYLEARKFSFGTCVRAVVIYGGTQFGHSVRQIVQGNCILCA TPGRLMDIIGKEKIGLKQVKYLVLDEADRLDMGFGPEMKKLISCPGMPKSKEQRQTLLFSATFP EEIQR AGDFLKSSYLFVAVGQVGGACRDVQQTILQVGVQYSKREKLVEILRNIGDERTMVFVETKKKADFIATFLC QEKISTTSIHGDREQREREQALGDFRCGKCPVLVATSVAARGLDIENVQHVINFDLPSTIDEYVHRIGRT GRCGNTGRAISFFDSDNHQAQLVKVLSAQDQVPAWLEEIAFSTYVPPSFSSTRGGAVFASVDTRK NYQGKHTLNTAGISSSQAPNPVDESWD</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-MYC/DDK
Predicted MW:	79.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001139357</a>
<b>Locus ID:</b>	13206
<b>UniProt ID:</b>	<a href="#">Q3V086</a>
<b>RefSeq Size:</b>	2850
<b>Cytogenetics:</b>	13 63.87 cM
<b>RefSeq ORF:</b>	2187
<b>Synonyms:</b>	AV206478; Mvh; VASA
<b>Summary:</b>	ATP-dependent RNA helicase required during spermatogenesis to repress transposable elements and preventing their mobilization, which is essential for the germline integrity (PubMed:20439430, PubMed:28633017). Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons (PubMed:20439430, PubMed:28633017). Involved in the secondary piRNAs metabolic process, the production of piRNAs in fetal male germ cells through a ping-pong amplification cycle (PubMed:20439430, PubMed:28633017). Required for PIWIL2 slicing-triggered piRNA biogenesis: helicase activity enables utilization of one of the slice cleavage fragments generated by PIWIL2 and processing these pre-piRNAs into piRNAs (PubMed:28633017). [UniProtKB/Swiss-Prot Function]