

Product datasheet for **MC220566**

Ddx4 (NM_010029) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddx4 (NM_010029) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ddx4
Synonyms:	AV206478; Mvh; VASA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220566 representing NM_010029
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAGATGAAGATTGGGAGGCAGAAATACTCAAACCTCACGTGTCTTCTATGTTCTCTGTATTTGAGA
 AGGATAAATATTCTTCTGGAGCAAATGGAGACACTTTTAAACAGGACTTCAGCTTCATCAGATATTGGCGA
 GTCTAGTAAAAAGAGAACACATCTACAACCTGGTGGCTTTGGAAGAGGAAAGGGCTTTGAAACAGAGGT
 TTTTAAATAACAAGTTTGAAGAAGGTGATAGCTCTGGTTTCTGGAAAGAGTCTAATAATGACTGTGAAG
 ATAATCAGACTCGAAGCAGAGGGTTTTCCAAGCGAGGTGGCTGCCAAGATGGAACGATTGAGAAGCATC
 AGGCCCGTTGAGAAGAGGGGAAGAGGCAGTTCCGAGGCTGCCGTGGAGGATTTGGTCTAGGAAGACCA
 AATAGTGAATCTGACCAAGATCAGGGGACACAGCGTGGTGGCTTTTGGTTCTAGGAAACCAGCAG
 CAAGTGATTGAGCAATGGTGACTTACCAAAGCAGAAGTGAAGTGGTCGAGGTGGTTACAAAGTTT
 AAATGAAGAAGTAGTAACAGGTTCTGGAAGAATTCTTGAAGTCAGAACTGAAGGAGGTGAAAGCAGT
 GATAGTCAAGGTCCAAAAGTGACATATATACCCCTCCTCCACCAGAGGATGAGGACTCCATCTTTGCAC
 ATTATCAGACAGGCATAAACTTTGATAAATATGACACCATACTTGTGAAAGTATCTGGACATGATGCACC
 ACCGGCAATTTTGACTTTTGAAGAAGCTAATCTCTGTGACACTGAATAACAACATTGCTAAAGCTGGC
 TATACTAAGCTTACTCTGTGACAGAAGTACAGCATTCCCATTGTATTAGCAGGACGAGATTTGATGGCTT
 GTGCTCAAACAGGGTCTGGGAAGACTGCAGTTTTCTCTTGCCTATTTGGCTCATATGATGCGGGATGG
 AATAACTGCCAGTCGCTTAAAGAACTGCAGGAACCAGAGTGTATTATTGTAGCACCAACTCGAGAACTG
 ATCAACCAAAATTTACTTGAAGCCAGAAAATTTCTTTGGGACTGTGTAAAGCTGTGGTCATATATG
 GAGGACCCAGTTTGGTCATTGAGTTCGACAGATAGTACAAGGGTGAACATATTGTGTACTCCAGG
 GAGGCTGATGGACATCATAGGCAAAGAAAAGATTGGCCTCAAACAAGTCAAGTACTTAGTTTTGGATGAA
 GCTGATCGAATGTTGGATATGGTTTTGGACCAGAGATGAAGAACTAATTTCTGTCCAGGAATGCCAT
 CAAAGGAACAACGCCAAACCTTTTATTAGTGTACTTTCCAGAAGAAATCCAGAGGTTGGCTGGGGA
 CTTTCTAAAGTCCAGTACTTGTGTTGTCGCTGTTGGGCAAGTGGGAGGAGCTTGCAGAGATGTTGAGCAG
 ACGATCCTTCAAGTTGGCCAGTATTCAAAAAGAGAAAAGCTTGTGAGATTCTACGAAACATAGGTGATG
 AAAGAATATGGTCTTTGTTGAAACCAAGAAAAAGCCGATTTTCACTTCAACTTTTCTTTGTCAAGAAAA
 AATATCAACTACAAGTATTCATGGTGTGCGGAGCAGAGGAGAGAGCAAGCTTGGAGATTTTCGC
 TGTGAAAGTGCCAGTCTTGTGCTACTTCAGTGGCTGCCAGAGGGCTTGATATTGAAATGTTCAAC
 ATGTTATCAATTTGACCTTCTTCTACCATTTGATGAGTATGTTTCAATCGAATTGGACGCACTGGCCGCTG
 TGGAAATACTGGCAGAGCGATTTCTTTTTTGTACTGACTCTGATAATCATTAGCACAGCCTCTAGTT
 AAAGTACTGTGACAGCTCAACAGGATGTCCCGCATGGCTAGAAGAGATTGCCTTCAGTACCTATGTGC
 CTCCCAGCTTTCAGTAGCAGCACAAGAGGGGGGGCTGTGTTGCATCTGTTGACACGAGGAAGAATTACCA
 GGGCAAGCACACGTTGAATACAGCGGGGATTTCTTCTTCAAGTCCCAATCCAGTTGATGACGAGTCA
 TGGGAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_010029

Insert Size: 2109 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_010029.2</u> , <u>NP_034159.1</u>
RefSeq Size:	2772 bp
RefSeq ORF:	2109 bp
Locus ID:	13206
UniProt ID:	<u>Q61496</u>
Cytogenetics:	13 63.87 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1.</p>