

Product datasheet for **RN211857**

Ddx4 (NM_001077647) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddx4 (NM_001077647) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ddx4
Synonyms:	RVLG
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN211857 representing NM_001077647
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAGATGAAGATTGGGAGGCAGAAATCCTCAAACCTCATGTGTCTTCTACGTTCTCTGTATTTGAGA
 AGGATAAATATTCTTCTGGGCAAAATGGAGACACTTTTAAACAGGACTTCAGCTTCATCATCAGAAATGGA
 AGATGGACCTTCTGGAAGAGATCAATTCATGAGAAGTGGATTTTCTCTGGAAGAAATTTAGGAAACAGA
 GATATTGGCGAGTCTAGTAAAAGAGAGACTACATCTACAACCGGTGGCTTTGGAAGAGGAAAGGGTTTTG
 GAAACAGAGGTTTTTAAATAACAAGTTTGAAGAAGGTGACAGCTCTGGTTTCTGAAAGAGTCTACTAA
 TGACTGTGAAGATACTCAGACTCGGAGCAGAGGGTTTTCCAAGCGAGGCGGCTATCCAGATGGGAATGAT
 TCGGAAGCTTCAGGCCATTCAGAAGAGGTGGGAGAGATAGTGAATATGACCAAGATCAGGGATCACAGC
 GTGGTGGTGGCCTTTTTGGTTCTAGGAAACCAGCAGCAAGTGATTCAGGCAGTGGTGACACTTTCCAGAG
 CAGAAGTGGGAATGCCCGAGGTGCTACAAAGGCTTAAATGAAGAAGTAGTAACAGGCTCTGAAAGAAT
 TCTTGGAAAGTCAGAAGCTGAAGGAGGCGAAAGCAGTGATATTCAAGGTCCAAAAGTGACATATATACCCC
 CTCTCCACCAGAGGATGAGGACTCCATCTTTGCACATTATCAGACAGGCATAAACTTTGATAAATATGA
 TACCATACTTGTGAAGTATCTGGACATGATGCACCACCGCAATTTTGACTTTTGAAGAAGCGAATCTC
 TGCCAGACCCTGAATAACAACATTGCTAAGGCTGGCTATACCAAGCTCACTCCTGTGAGAAAGTACAGCA
 TTCCCATTGTGTTAGCAGGAAGAGATTTGATGGCTTGCTCAAACAGGGTCTGGGAAGACGGCAGCTTT
 TCTCTTGCCATTTTTGGCTCATATGATGAGGGATGGAATAACTGCCAGTCGCTTTAAAGAAGTGCAGGAA
 CCAGAGTGTATTATTGTAGCACCAACTCGAAGATTGATCAACCAATTTATTTGGAAGCCAGAAAATTTT
 CTTTTGGGACTTGTGAAGAGCTGTTGCATATATGGAGGAACCCAGTTTGGGCACTCAATTCGACAGAT
 AGTGCAAGGGTGTAAATATATTATGTGCTACTCCAGGGAGGCTGATGGATATCATAGGCAAAAGAAAAGATT
 GGTCTCAAACAAGTCAAGTACTTGTGTTGGATGAAGCTGATCGAATGTTGGATATGGGTTTTGGACCCG
 AAATGAAGAAGTTAATTTCTTGTCCAGGAATGCCATCAAAGGAACAGCGCCAACTCTCTTATTCAGTGC
 AACTTTTCCAGAAGAAATCCAGAGGTTGGCTGGCGAGTTTTTAAAGTCAAATTTTGTGTTGTTGCTGTT
 GGACAAGTGGGAGGAGCTTGCAGAGATGTGCAGCAGTCCATTCTTCAAGTTGGCCAGTATTCAAAAAGA
 GAAAACCTGTTGAGATTCTACGAAACATAGGTGATGAAAGACCTATGGTCTTTGTTGAAACCAAGAAAAA
 AGCAGATTTTCATTCGACTTTCTTTGTCAAGAAAAAATCAACTACAAGTATTCATGGCGATCGGGAA
 CAGAGGGAGCGAGAACAAGCTCTTGAGATTTTCTGCTGTGAAAGTGCCAGTCTTGTGTTGCTACTTCAG
 TGCTGCCAGAGGACTTGATATTGAAAATGTTCAACATGTTATCAATTTAACCTTCCTTACCATTGA
 TGAATATGTTTCGAATTGGACGTAAGTGGACGTTGTGGAATACTGGCAGGGCGATTTCTTTTTTGTAT
 ACCGAATCTGATAATCATTTAGCACAACCTCTAGTTAAAGTACTGTCAGATGCTCAACAGGATGTTCTCTG
 CGTGGTTAGAAGAGATTGCCTTTAGTTCATATGCGCCTCCAGCTTCAGTAATAGCACAAGAGGGGCTGT
 GTTTGCATCTTTTGACACTAGGAAGAATTTCCAGGGCAAGAACACACTGAACACAGCTGGGATTTCTTCT
 GCACAAGCTCCCAATCCAGTTGATGACGAGTCATGGGAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001077647
Insert Size: 2142 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_001077647.1</u> , <u>NP_001071115.1</u>
RefSeq Size:	3030 bp
RefSeq ORF:	2142 bp
Locus ID:	310090
UniProt ID:	<u>Q64060</u>
Cytogenetics:	2q14
Gene Summary:	ATP-dependent RNA helicase required during spermatogenesis to repress transposable elements and preventing their mobilization, which is essential for the germline integrity. 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. Involved in the secondary piRNAs metabolic process, the production of piRNAs in fetal male germ cells through a ping-pong amplification cycle. 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.[UniProtKB/Swiss-Prot Function]