

Product datasheet for **SC328935**

DDX4 (NM_001166534) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX4 (NM_001166534) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDX4
Synonyms:	VASA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC328935 representing NM_001166534.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGGGTCTAGGAATTTATTTTAAACCACTCTCCAGAGTCTAGTAATGACTGCGAAGATAATCCAACA
CGGAACAGAGGGTTTTCCAAGAGAGGCGATAATGACTTAGACCCAGACGAATGTATGCAGCGCACTGGT
GGCCTTTTTGGTTCTAGAAGACCAGTATTAAGTGGCACAGGTAATGGTGATACTTCTCAAAGCAGAAGT
GGCAGTGAAGTGAACGAGATTCTTGAAGTCAGAAGCAGAAGGAGGAGAAAAGTAGTGATACTCAAGGA
CCAAAAGTGACCTACATACCCCTCCTCCACCTGAGGATGAGGACTCCATCTTTGCACATTATCAGACA
GGCATAAACTTCGACAAATACGACACTATTCTTGTGAAGTGTCTGGACATGATGCACCACCAGCAATT
CTGACTTTTGAAGAAGCTAATCTCTGTCAGACACTGAATAACAACATTGCTAAAGCTGGTTATACTAAG
CTTACTCTGTGCAAAAATACAGTATTCCTATCATACTGCAGGACGAGATTTGATGGCTTGCCTCAA
ACAGGGTCTGGGAAGACTGCGGCTTTCTCCTACCAATTTGGCTCATATGATGCATGATGAATAACT
GCCAGTCTTTTTAAAGAGTTGCAGGAACCAGAGTGTATTATTGTAGCACCAACTCGAGAATTGGTCAAC
CAGATTTATTTGGAAGCCAGAAAATTTCTTTTGGGACTTGTGTAAGAGCTGTTGTTATATATGGGGGA
ACCCAGCTGGGACATTCAATTCGACAAATAGTACAAGGCTGTAATATATTATGTGCTACTCCTGGAAGA
CTGATGGATATCATAGGCAAAGAAAAGATTGGTCTCAAACAGATCAAATACTTAGTTTTGGATGAAGCT
GATCGCATGTTGGATATGGGTTTTGGTCCAGAAATGAAGAAGTTAATTTCTTGCCAGGAATGCCATCA
AAGGAACAGCGCCAAACCTTATGTTCACTGCAACTTTCCAGAGGAAATCAAAGGTTGGCTGCAGAG
TTTTTAAAGTCAAATTATCTGTTTGTGCTGTTGGACAAGTGGTGGAGCATGTAGAGATGTTCAGCAG
ACCGTTCTCCAAGTTGGCCAGTTCTCAAAAAGAGAAAAGCTCGTTGAAATCTCGGAAACATAGGGGAT
GAAAGAAGTATGGTCTTTGTTGAACTAAGAAAAAGCAGATTTTATTGCAACTTTTCTTTGTCAAGAA
AAAATATCAACTACAAGTATTCATGGTGATCGGGAACAGAGAGAGCGGGAGCAAGCTCTTGGAGATTTT
CGCTTTGGAAGTGCCAGTTCTTGTGCTACTTCAGTAGCTGCCAGAGGGCTGGATATTGAAAATGTG
CAACATGTTATCAATTTTATCTTCTACCATTGATGAATATGTTTCATCGAATTGGGCGTACTGGT
CGTTGTGGGAATACTGGCAGAGCAATTTCTTTTTTGTCTTGAATCGGATAACCATTTAGCACAGCCT
CTAGTAAAAGTATTGACAGATGCTCAACAGGATGTTCTGATGGTTGGAAGAAATTGCCTTTAGTACA
TACATTCCTGGCTTCAGTGGTAGTACAAGAGGAAACGTGTTTGCATCAGTTGATACCAGAAAGGGCAAG
AGCACTTTGAACACAGCTGGGTTTTCTTCTTACAAGCTCCCAATCCAGTAGATGATGAGTCATGGGAT
TAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001166534
- Insert Size:** 1728 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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:

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: [NM_001166534.1](#)

RefSeq Size: 2379 bp

RefSeq ORF: 1728 bp

Locus ID: 54514

UniProt ID: [Q9NQI0](#)

Cytogenetics: 5q11.2

MW: 63.2 kDa

Gene Summary: 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. [provided by RefSeq, Oct 2009]

Transcript Variant: This variant (4) has a novel first exon representing use of an alternate internal promoter site compared to variant 1. The predicted protein isoform (4) is shorter and has a distinct N-terminus.