

Product datasheet for **SC325281**

DDX4 (NM_001142549) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX4 (NM_001142549) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDX4
Synonyms:	VASA
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001142549, the custom clone sequence may differ by one or more nucleotides

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ATGGGAGATGAAGATTGGGAAGCAGAAATCAACCCTCATATGTCTTCTATGTTCCCAT
TTTGAGAAGGATAGGTATTCTGGAGAAAATGGAGACAATTTAACAGGACTCCAGTTCA
TCATCAGAAATGGATGATGGACCTTCTCGAAGAGATCATTTTCATGAAAAGTGGATTTGCC
TCTGGGCGGAATTTTGGAAACAGAGATGCTGGTGTAGTGAATAAGCGAGATAATACATCC
ACAATGGGTGGTTTTGGAGTTGGAAAGAGTTTTGGAAACAGAGTTTTTCAAACAGCAGG
TTTGAAGATGGTGATAGCTCTGGTTTTCTGGAGAGAGTCTAGTAATGACTGCGAAGATAAT
CCAACACGGAACAGAGGGTTTTCCAAGAGAGGCGATAATGACTTAGACCCAGACGAATGT
ATGCAGCGCACTGGTGGCCTTTTTGGTTCTAGAAGACCAGTATTAAGTGGCACAGGTAAT
GGTGATACTTCTCAAAGCAGAAGTGGCAGTGGAAAGTGAACGAGGTGGTTACAAAGTTTA
AATGAAGAAGTAATAACAGGCTCTGAAAGAATTCTTGGAAAGTCAGAAGCAGAAGGAGGA
GAAAGTAGTACTCAAGGACCAAAAGTGACCTACATACCCCTCCTCCACCTGAGGAT
GAGGACTCCATCTTGCACATTATCAGACAGGCATAAACTTCGACAAATACGACACTATT
CTTGTTGGAAGTGTCTGGACATGATGCACCACCAGCAATTCGACTTTTGAAGAAGCTAAT
CTCTGTACAGACTGAATAACAACATTGCTAAAGCTGGTTATACTAAGCTTACTCCTGTG
CAAAAATACAGTATTCCTATCATACTTGCAGGACGAGATTTGATGGCTTGCCTCAAACA
GGGTCTGGGAAGACTGCGGCTTTTCTCCTACCAATTTTGGCTCATATGATGCATGATGGA
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CGAGAATTGGTCAACCAGATTTATTTGGAAGCCAGAAAATTTCTTTTGGGACTTGTGTA
AGAGCTGTTGTTATATATGGGGAAACCCAGCTGGGACATTCATTCGACAAATAGTACAA
GGCTGTAATATATTATGTGCTACTCCTGGAAGACTGATGGATATCATAGGCAAAGAAAAG
ATTGGTCTCAAACAGATCAAATACTTAGTTTTGGATGAAGCTGATCGCATGTTGGATATG
GGTTTTGGTCCAGAAATGAAGAAGTTAATTTCTTGCCAGGAATGCCATCAAAGGAACAG
CGCCAAACCCCTTATGTTCAAGTCAACTTTTTCCAGAGGAAATCAAAGGTTGGCTGCAGAG
TTTTTAAAGTCAAATTATCTGTTTGTGCTGTTGGACAAGTGGGTGGAGCATGTAGAGAT
GTTTCAGCAGACCGTTCTCCAAGTTGGCCAGTTCTCAAAAAGAGAAAAGCTCGTTGAAATT
CTGCGAAACATAGGGGATGAAAGAAGTATGGTCTTTGTTGAAACTAAGAAAAAGCAGAT
TTTATTGCAACTTTTCTTGTCAAGAAAAAATATCAACTACAAGTATTCATGGTATCGG
GAACAGAGAGAGCGGGAGCAAGCTCTTGGAGATTTTCGCTTTGGAAGTGGCCAGTCTT
GTTGCTACTTCAGTAGCTGCCAGAGGGCTGGATATTGAAAATGTGCAACATGTTATCAAT
TTTGATCTTCTTCTACCATTGATGAATATGTTTCATCGAATTGGGCGTACTGGTCTTGT
GGGAATACTGGCAGAGCAATTTCTTTTTTGTCTTGAATCGGATAACCATTTAGCACAG
CCTCTAGTAAAAGTATTGACAGATGCTCAACAGGATGTTCTGCTGATGGTTGGAAGAAATT
GCCTTTAGTACATACATTCCTGGCTTCAAGTGTAGTACAAGAGGAAACGTTGTTGCATCA
GTTGATACCAGAAAGGGCAAGAGCACTTTGAACACAGCTGGGTTTTCTTCTTCAAGCT
CCCAATCCAGTAGATGATGAGTCATGGGAT

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- Restriction Sites:** Please inquire
- ACCN:** NM_001142549
- 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:	<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_001142549.1, NP_001136021.1</u>
RefSeq Size:	2778 bp
RefSeq ORF:	2073 bp
Locus ID:	54514
UniProt ID:	<u>Q9NQI0</u>
Cytogenetics:	5q11.2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an in-frame coding exon, as compared to variant 1. The resulting isoform (2) is shorter than isoform 1.</p>