

Product datasheet for **SC114390**

DDX41 (NM_016222) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX41 (NM_016222) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDX41
Synonyms:	ABS; MPLPF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_016222, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGAGTCGGAACCCGAACGGAAGCGGGCTCGCACCGACGAGGTGCCTGCCGAGGAAGCCGCTCCG
AGCGGAAGATGAGGACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGCTACTGCT
CCAGAAGCTGCTGCAGCGAAGACGCAAGGGAGCTGCGGAGGAAGAGCAGCAGGACAGCGGTAGTGAACCC
CGGGGAGATGAGGACGACATCCCCTAGGCCCTCAGTCCAACGTACGCTCCTGGATCAGCACCAGCACC
TTAAAGAGAAGGCTGAAGCGCGCAAAGAGTCTGCCAAGGAGAAGCAGCTGAAGGAAGAAGAGAAGATCCT
GGAGAGTGTGCCGAGGGCCGAGCATTGATGTCAGTGAAGGAGATGGCTAAGGGCATTACGTATGATGAC
CCCATCAAACCAGCTGGACTCCACCCCGTTATGTTCTGAGCATGTCTGAAGAGCGACATGAGCGCGTGC
GGAAGAAATACCACATCCTGGTGGAGGGAGACGGTATCCCACCACCCATCAAGAGCTTCAAGGAAATGAA
GTTTCTGCAGCCATCCTGAGAGGCCTGAAGAAGAAAGGCATTACCACCCAACACCATTAGATCCAG
GGCATCCCCACCATTCTATCTGGCCGTGACATGATAGGCATCGTTTTACGGGTTGAGGCAAGACTGG
TGTTACGTTGCCCGTCATCATGTTCTGCCTGGAACAAGAGAAGAGGTTACCTTCTCAAAGCGCGAGGG
GCCCTATGGACTCATCTGCCCTCGCGGGAGCTGGCCCGCAGACCCATGGCATCCTGGAGTACTAC
TGCCCGCTGCTGCAGGAGGACAGCTCACCCTCTGCGCTGCGCCCTCTGCATTGGGGGCATGTCGGTGA
AAGAGCAGATGGAGACCATCCGACACGGTGTACACATGATGGTGGCCACCCCGGGGGCCTCATGGATTT
GCTGCAGAAGAAGATGGTCAGCCTAGACATCTGTGCTACCTGGCCCTGGACGAGGCTGACCGCATGATC
GACATGGGCTTCGAGGGTGACATCCGTACCATTCTCTACTTCAAGGGCCAGCGACAGACCCTGCTCT
TCAGTGCCACCATGCCGAAGAAGATTGAGAAGTTGCTAAGAGTGCCTTGTAAGCCTGTGACCATCAA
TGTGGGGCGCGCTGGGGCTGCCAGCCTGGATGTCATCCAGGAGGTAGAATATGTGAAGGAGGAGGCCAAG
ATGGTGTACCTGCTCGAGTGCCTGCAGAAGACACCCCGCCTGTACTCATCTTTGCAGAGAAGAAGGCAG
ACGTGGACGCCATCCACGAGTACCTGCTCAAGGGGGTTGAGGCCGTAGCCATCCATGGGGGCAAGA
CCAGGAGGAACGACTAAGGCCATCGAGGCATTCCGGGAGGGCAAGAAGGATGTCCTAGTAGCCACAGAC
GTTGCCTCCAAGGGCCTGGACTTCCCTGCCATCCAGCAGTCATCAATTATGACATGCCAGAGGAGATTG
AGAAGTATGTACACCGATTGGCCGACCGGGCGCTCGGGAAACACAGGCATCGCCACTACCTTCATCAA
CAAAGCGTGTGATGAGTCAGTGTGATGGACCTCAAAGCGCTGCTGCTAGAAGCCAAGCAGAAGGTGCCG
CCCGTGTGCAGGTGCTGCATTGCGGGGATGAGTCCATGCTGGACATTGGAGGAGAGCGCGGCTGTGCCT
TCTGCGGGGGCCTGGGTATCGGATCACTGACTGCCCCAACTCGAGGCTATGCAGACCAAGCAGGTGAG
CAACATCGGTGCAAGGACTACCTGGCCACAGCTCCATGGACTTCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016222 unedited

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TTTGTGCAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGTCGGAACC
CGAACGGAAGCGGGCTCGCACCGACGAGGTGCCTGCCGAGGAAGCCGCTCCGAGGCGGA
AGATGAGGACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGTACT
GCTCCAGAAGCTGCTGCAGCGAAGACGCAAGGGAGCTGCCGAGGAAGAGCAGCAGGACAG
CGGTAGTGAACCCCGGGGAGATGAGGACGACATCCCCTAGGCCCTCAGTCCAACGTCAG
CCTCCTGGATCAGCACCAGCACCTTAAAGAGAAGGCTGAAGCGCGCAAAGAGTCTGCCAA
GGAGAAGCAGCTGAAGGAAGAAGAGAAGATCCTGGAGAGTGTGCCGAGGGCCGAGCATT
GATGTCAGTGAAGGAGATGGCTAAGGGCATTACGTATGATGACCCCATCAAACCAGCTG
GACTCCACCCCGTTATGTTCTGAGCATGTCTGAAGAGCGACATGAGCGCGTGCAGGAAGAA
ATACCACATCCTGGTGGAGGGAGACGGTATCCCACCACCCATCAAGAGCTTCAAGGAAAT
GAAGTTTCTGCAGCCATCCTGAGAGGCCTGAAGAAGAAGGCATTACCACCCAACACCC
ATTCAGATCCAGGCATCCCACCATTTCTATCTGGCCGTGACATGATAGGCATCGCTTTC
AGGGGTTGAGGCCAGACTGGTGTTCACGTGCGCCCGTCATCATGTTCTGCCTGCACCA
GAAGAAAAGGTACCCTTCTCAAACGCGAGGGGCCCTATGGCCTCATATTGCCCTCGC
GGGAAGTGGCCCGAAAACCTGGATCCTTGGAGATACTGGCCCTGCTGCCAAGACCC
C
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016222 unedited GGCACTCCAGGGCCAGGNANAGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGATCT GTTTCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTT TGGGCTAGAGGTTTGGGCTTAAATGGCAGCTGGGGTAAAAGGAAACAAAAACAGTAATTC TGAAGAGCACAGGGAACAGGCAGCCAGGACCAGCCTGGCCATTCCAGGCCAGCTGAGCT GAAATGCTGATTCTGTCCAGGGGGCTGCTGTATGTGTAGACTGGTGGCAGTCTTGGGGAC TGAGCCCTCTTGGAGAGAAGGGAAGACTGTCGGCTCAAAAGTCCATGGAGCTGTGGGCCA GGTAGTCCTTGGACCGATGTTGCTGACCTGCTTGGTCTGCATAGCCTCGAGTNNAGGGC AGTCAGTGATCCGATGACCCAGGCCCCCGCAGAAGGCACAGCCGCGCTCTCCTCCAATGT CCAGCATGGACTCATCCCCGCAATGCAGCACCTGCAGCACGGGCGGCACCTTCTGCTTGG CTTCTAGCAGCAGCGCTTTGAGGTCCATCAGCACTGACTCATCACAGCTTTGTTGATGA AAGTAGTGGCGATGCCTGTGTTCCCGAGCGCCCGGTGCGGCCAATCCGGTGTACATAGG TCTCAATCTCCTCTGGCATGTCATAATTGATGACGTGCTGGATGGCAGGGAAATCCATGC CCTTGATTTNNAATTGAGGGTACTAAGACATTCTTTTGCCTCCCGGATGCTCGAAA GCCCTAATCCCGTCTCCTGGTCTTTTGCCTCATGGATGCTTACCGCCTCAACCCCTGA GCACCACTACTCCGGGATGGCGTCCCGTTTGCCTTTTCTTGA AAAAGAATCCGCGGGG GTGTCTCTCCACCTCACCC
Restriction Sites:	ECORI-NOT
ACCN:	NM_016222
Insert Size:	2140 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:	NM_016222.2 , NP_057306.2
RefSeq Size:	2118 bp
RefSeq ORF:	1869 bp
Locus ID:	51428
UniProt ID:	Q9UJV9
Cytogenetics:	5q35.3
Domains:	DEAD, helicase_C, zf-CCHC
Protein Families:	Druggable Genome

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 the DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. The protein encoded by this gene is a member of the DEAD box protein family and interacts with several spliceosomal proteins. In addition, the encoded protein may recognize the bacterial second messengers cyclic di-GMP and cyclic di-AMP, resulting in the induction of genes involved in the innate immune response. [provided by RefSeq, Jan 2017]