

## Product datasheet for **SC110281**

### **DHX30 (NM\_014966) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DHX30 (NM_014966) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHX30
Synonyms:	DDX30; NEDMIAL; RETCOR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014966, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGCTTCTAGGGACCTATTAAGAGAGTTCACAGCCAAAAATCTTCTCAACAGTGTGATTGGAA
GAGCCCTCGGCATCTCACATGCAAAAGACAACTAGTCTACGTGCACACAAATGGACCGAAGAAAAAGAA
AGTCACACTGCACATAAAATGGCCCAAGAGCGTGGAGGTAGAAGGCTATGGCAGCAAGAAGATCGATGCT
GAGCGGCAGGCTGCAGCTGCAGCCTGCCAGCTGTTCAAGGGTTGGGGTCTGCTAGGTCCCGGAATGAGT
TGTTTGACGCAGCCAAATACCGAGTGTAGCTGATCGTTTGGCTCCCTGCCGACAGCTGGTGGCGTCC
GGAACCCACCATGCCCTACTTCTGGCGGCAGCTGAATCCAGAGAGTATTCGACCAGGGGGACCTGGG
GGCCTATCCCGCTCTTTAGGCCGGGAAGAAGAGGAGGACGAGGAGGAAGAGCTAGAAGAAGGGACCATAG
ATGTTACCGACTTCTTGTCCATGACCCAGCAGGATCCACGCTCCACTCAGGGACTCAAGGGGGAGTTC
CTTTGAGATGACAGATGACGACAGTGCCATTAGGGCTCTGACCCAGTTTCCAATTCCCAAGAACCTTCTG
GCCAAGGTGATTGAGATTGCAACGTATCCTCCACAGCTAAGAACCTCATGCAGTTCCATACTGTGGGCA
CCAAGACCAAGCTGTCTACACTACCCTGCTCTGGCCCTGCCCATGACCTTTGTTGCCAAGGGCGCCG
CAAAGCAGAGGCTGAGAATAAGGCGGCAGCCTTGGCTGCAAGAACTGAAGAGCCTGGGCTGGTGAC
AGGAACAACGAACCGCTTACACACGCCATGTATAACCTGGCTCTTTGCGTGAGCTGGGTGAGACCCAGC
GCCGACCATGCACCATCCAGGTGCCCGAGCCATCCTCCGCAAGATAGAGACCTTCTGAACCATTACCC
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TCAGGGCCTCTGAGTGACCCATCACAGGCAAGCCCTATGTGCCCTGTTGGAAGCAGAGGAGGTACGTC
TCAGCCAGAGTCTGCTAGAAGTGTGGCGCGGCGAGGGCCGGTCTGGCAGGAGGCCCCAGCTACCTGT
GGACCCACATCGGGACACCATCCTCAACGCCATTGAGCAGCACCCGGTGGTGGTATCTCTGGGACACG
GGCTGTGGGAAGACCACGCGCATCCCCAGCTGTTGCTGGAGCGCTATGTGACCGAGGGCCGAGGTGCC
GCTGCAATGTTATCATCACCCAACCTCGCCGATCTCTGCTGTGTCTGTGGCACAGCGGGTCAGCCACGA
ACTGGGCCCTCCCTGCGCCGAATGTGGGCTCCAGGTGCGGTTGGAAGTAAGCCCCATCCCGAGGC
GGGGCCCTGCTCTTCTGCACTGTGGGTATCCTGCTGCGTAAGCTGCAGAGCAACCCAGCCTGGAGGGCG
TGACCCAGTTCATCGTGGATGAGGTGCATGAGCGGGACGTGAACACAGACTTTCTGCTGATCCTGCTCAA
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GGGCCTGCAGCGGCTCAACCCGGCCCTGCGGCTGGTGCTCATGAGTGCCACAGGGGACAATGAGCGCTTC
TCCCGATACTTTGGTGGCTGCCCGTCATCAAGGTGCCTGGCTTCATGTACCCAGTCAAGGAGCACTACC
TAGAGGACATCCTGGCCAAGTTGGGCAAGCACCAGTACCTGCACCGGCACCGGCACCATGAGTCTGAGGA
TGAATGCGCACTCGATTTGGACCTTGTGACTGATCTGGTTCTGCACATCGATGCTCGCGGGGAACCAGGT
GGGATCCTGTGCTTCTGCTGGGTGGCAGGAGATCAAAGGAGTGCAGCAGCGCCTCCAGGAGGCCCTGG
GCATGCACGAGAGCAAGTACCTCATCTGCCAGTGCACCTCAACATCCCCATGATGGATCAGAAGGCCAT
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GCTTATCCACGGACTCATCAAGCAGTTCTCAGAGAACATTTATGAGGCCTTCTGGTGGGGAAGCCCTC
GGACTGCACCCCTGGCCTCCGCCAGTGAACGAGTACAGTGAAGGAGGAGGAGCTGGTGAAGGGCGTGTG
ATGGCCGGCCTTACCCCAACCTCATCCAGGTGAGGCAGGGCAAGGTACCCCGCAGGGGAAAGTTCAAGC
CCAACAGCGTCACATATAGGACCAAAATCAGGCAACATCCTGTGCACAAGTCGACCATTAACAGGGAGGC
CACACGGTTACGGAGCCGATGGCTGACGTATTTTCATGGCAGTCAAGTCCAATGGCAGCGTCTTCGTCGG
GACTCCTCAGGTGACCCGCTAGCTGTGCTGCTGCTGACCGACGGGGACGTGCACATCCGTGATGACG
GGCGCCGGGCCACCATCTCACTGAGCGACAGTGAACCTGCTGCGGCTGGAGGGTGACTCGCGTACCGTGCG
GCTGCTGAAGGAGCTGCGCGGGCCCTGGGCGCATGGTGGAGCGGAGCCTGCGCAGCGAGCTGGTGTGCA
CTTCCCCCAGCGTACAGGAGGAGCAGGGCAGCTGCTTGCCTACTGGCAGAGCTGCTGCGAGGACCCCT
GTGGCAGCTTTGATGTGCGCAAGACAGCTGACGACTGA
    
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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_014966 unedited
NGTTGGCGCATTTGTATACGATTCTATAGGCGGCCCGGAATTCGCACGAGGGCTCATG
CGCGGTGCACAGAGGCTTGTTCACATCTGTAACAACAGGAGGAGGCCAGCCTCGTGAT
GAGGAATAGCAAGGAGAGAATTCAGCTCCAGTTCAAAAGCCTACAAAATCTGAGACTGTC
ATTGCTTTTATAAGGATTCCAGCTTTCCCTCCTGGCCAGAAATGTTTCAGCCTGGACTCAT
TCAGAAAAGATCGGGCCAGCACAGGCAGCGTCAGTGCAAACCTCCCCACCCCGCCTTC
CACCCATGTGTGTAACCCTACCCAGGAGGGACCATCTCTCGAGCTTCTAGGGACCTAT
TAAAAGAGTTCCACAGCCAAAAATCTTCTCAACAGTGTGATTGGAAGAGCCCTCGGCA
TCTCACATGCAAAAGACAAACTAGTCTACGTGCACACAAATGGACCGAAGAAAAAGAAAG
TCACACTGCACATAAAATGGCCCAAGAGCGTGGAGGTAGAAGGCTATGGCAGCAAGAAGA
TCGATGCTGAGCGGCAGGCTGCAGCTGCAGCCTGCCAGCTGTTCAAGGGTTGGGGTCTGC
TAGGTCCCAGGAATGAGTTGTTTACGCGAGCCAAATACCGAGTGTAGCTGATCGCTTTG
GCTCCCCTGCCGACAGCTGGTGGCGTCCGGAACCCACCATGCCCCCTACTTCTGGCGGC
AGCTGAATCCAGAGAGTATTCGACCAGGGNGGACCTGGGGCCTATCCCGCTCTTTTAGG
CCGGAGAAAAGAGAGACGAGGAGGAAGAGCTAGAAGAAAGGACCATAGATGTTACCGACT
TCTGTCCATGACCCAGCAGGATTCCCACGCTCCACTCAGGGACTCAAGGGGNAGTTCCTT
TGAGAGACAGATGACGACAGTGCCATTTAGGCTCTGACCCAGTT
    
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<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_014966 unedited</p> <pre>TGGCCGCGCCGCAATCTATATCGAGTNCCTTTTTTTTTTTTTTTTTTTTTTTTTCACACAAG GGATAAATAGAACTTTATTTTAAATAAACATTGGCACTCTGTACACAGCCCCAGCAAAG CAGGGCTCATTGTCAGCTGTCTTGCACATCAAAGCTGCCACAGGGTCTCGCAGCAG CTCTGCCATTAGCGCAAGCAGCTGCCGTGCTCCTCCTGTACGCTGGGGGGAAGTGCAGC CAGCTCGCTGCGCAGGCTCCGCTCCACCATGCGGCCAGGGCCCGCCGAAGCTCCTTCAG CAGCCGACGGTACGCGAGTACCCTCCAGCCGACGAGTCACTGTCGCTCATTGAGAT GGTGGCCCGGCGCCGTCATCACGGATGTGCACGTCCCGTCGGTCAGCAGCAGCACAGC TAGCGGGGGCCCTGATAGGAGTCCCGGACAAAGACGCTGCCATTGGACTTGACGGCCAT GAAATACGCCAGCCCTCCGGCCCGGTATCCGTGGGGCCCCCTGTAATGGGCCACTTGGG CACCAGGAAGCGGCCGGGTCTGGGTCCCTTTGTGACCCTGTTGGGCTTTATCTTCCCCCG CCCGGTTACTCGTCCCCTGCCTCGTTCGTTCCGTTGGGCTCACCCCGCCCTCCACCCC TCATACTGCCCCGCGCCCGTCCCCTAGCCTCCATAGCTTCCCTCTCCCCTCCCTTG CCCCCCCCACCGCGACCCGCCCAGACCCGTGTGCTTTAGGTGCGCGGTTTTGCCCCCT TCCCCCACCCTACGCGCTCCATGCCCAACCCACTGTCTATCGAGCTTCTTTTGTCTC CCCCCTTCCCTCCTCAAATCCCCTCGCGCTTCTGCGCCGCTCGTTTCTCCTCCCGCC CCATTTTTTCTTTTGTCTTCTCCTTACACTTTCGTCGCTCGTCTCTTGTGCTGTCGA TCGTCTTTTTTT</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_014966
<b>Insert Size:</b>	3670 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_014966.2</a> , <a href="#">NP_055781.2</a>
<b>RefSeq Size:</b>	3880 bp
<b>RefSeq ORF:</b>	3468 bp
<b>Locus ID:</b>	22907
<b>UniProt ID:</b>	<a href="#">Q7L2E3</a>
<b>Cytogenetics:</b>	3p21.31
<b>Domains:</b>	DSRM, helicase_C, HA2

**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 DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. The family member encoded by this gene is a mitochondrial nucleoid protein that associates with mitochondrial DNA. It has also been identified as a component of a transcriptional repressor complex that functions in retinal development, and it is required to optimize the function of the zinc-finger antiviral protein. Alternatively spliced transcript variants have been found for this gene.

[provided by RefSeq, Feb 2013]

Transcript Variant: This variant (2) differs in its 5' UTR and uses an alternate translational start codon, compared to variant 1. The resulting isoform (2) has a distinct and shorter N-terminus, compared to isoform 1.