

## Product datasheet for **SC128180**

### **DHX30 (NM\_138615) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DHX30 (NM_138615) Human Untagged Clone
Tag:	Tag Free
Symbol:	DHX30
Synonyms:	DDX30; NEDMIAL; RETCOR
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138615, the custom clone sequence may differ by one or more nucleotides

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ATGTTTCAGCCTGGACTCATTTCAGAAAAGATCGGGCCAGCACAGGCAGCGTCAGTGCAAACCTCCCCAC
CCCGCCTTCCACCCATGTGTGTCAACCCACCCAGGAGGGACCATCTCTCGAGCTTCTAGGGACCTATT
AAAAGAGTTCCACAGCCAAAAATCTTCTCAACAGTGTGATTGGAAGAGCCCTCGGCATCTCACATGCA
AAAGACAACTAGTCTACGTGCACACAAATGGACCGAAGAAAAAGAAAGTCACTGCACATAAAATGGC
CCAAGAGCGTGGAGGTAGAAGGCTATGGCAGCAAGAAGATCGATGCTGAGCGGCAGGCTGCAGCTGCAGC
CTGCCAGCTGTTCAAGGGTTGGGGTCTGCTAGGTCCCGGAATGAGTTGTTTGACGCAGCCAAATACCGA
GTGCTAGCTGATCGCTTTGGCTCCCTGCCGACAGCTGGTGGCGTCCGGAACCCACCATGCCCCCTACTT
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GGAAGAAGAGGAGGACGAGGAGGAAGAGCTAGAAGAAGGGACCATAGATGTTACCGACTTCTTGCCATG
ACCCAGCAGGATCCCACGCTCCACTCAGGGACTCAAGGGGGAGTTCTTTGAGATGACAGATGACGACA
GTGCCATTAGGGCTCTGACCCAGTTTCCACTTCCCAAGAACCTTCTGGCCAAGGTGATTCAGATTGCAAC
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ACCTGCTCTGGCCCTGCCCATGACCTTTGTTGCCAAAGGGCGCCGAAAGCAGAGGCTGAGAATAAGG
CGGCAGCCTTGGCCTGCAAGAACTGAAGAGCCTGGGCCTGGTGACAGGAACAACGAACCGCTTACACA
CGCCATGTATAACCTGGCCTCTTTGCGTGAGCTGGGTGAGACCCAGCGCCGACCATGCACCATCCAGGTG
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CAGAATCCGGCTGCAGAGTGATGACATCTTGCCCTTGGGCAAGGACTCAGGGCCTCTGAGTGACCTAT
CACAGGCAAGCCCTATGTCCCTGTTGGAAGCAGAGGAGGTACGTCTCAGCCAGAGTCTGCTAGAAGT
TGGCGGCGGCGAGGGCCGGTCTGGCAGGAGGCCCCAGCTACCTGTGGACCCACATCGGGACACCATCC
TCAACGCCATTGAGCAGCACCCGGTGGTGGTTCATCTCTGGGACACGGGTGTGGGAAGACCACGGCAT
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CCTCGCCGCATCTCTGCTGTGTCTGTGGACAGCGGGTACGCCACGAACGGGCCCTCCCTGCGCCGGA
ATGTGGGCTTCCAGGTGCGGTTGAAAGTAAGCCCCATCCCAGGGCGGGGCCCTGCTCTTCTGCACTGT
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GTGCATGAGCGGGACGTGAACACAGACTTCTGCTGATCCTGCTCAAGGGCCTGCAGCGGCTCAACCCGG
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TTGTGACTGATCTGGTTCTGCACATCGATGCTCGCGGGGAACAGGTGGGATCCTGTGCTTCTGCCTGG
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CAGTTCTCAGAGAACATTTATGAGGCCTTCTGGTGGGGAAGCCCTCGGACTGCACCCTGGCCTCCGCCC
AGTGCAACGAGTACAGTGAAGGAGGAGGCTGGTGAAGGGCGTGTGATGGCCGGCCTTACCCAACT
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AAATCAGGCAACATCCTGCTGCACAAGTCGACCATTAACAGGGAGGCCACACGGTTACGGAGCCGATGGC
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AGCGACAGTGACCTGCTGCGGCTGGAGGTTGACTCGCGTACCGTGCAGGCTGCTGAAGGAGCTGCGCGGG
CCCTGGGCGCATGTTGGAGCGGAGCCTGCGCAGCGAGCTGGCTGCATTTCCCCCAGCGTACAGGAGGA
GCACGGGCAGCTGCTTGCCTACTGGCAGAGCTGCTGCGAGGACCCTGTGGCAGCTTTGATGTGCGCAAG
ACAGCTGACGACTGA
    
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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_138615 unedited
CAGCCTCGTGATGAGGAATAGCAAGGAGAGAATTCAGCTCCAGTTCAAAAGCCTACAAAA
TCTGAGACTGTCAATTGCTTTTATAAGGATTCCAGCTTTCCTCCTGGCCAGAAATGTTCA
GCCTGGACTCATTAGAAAAGATCGGGCCAGCACAGGCAGCGTCAGTGCAAACTCCCC
CACCCCGCCTTCCACCCATGTGTGTCAACCCTACCCAGGAGGGACCATCTCTGAGCTT
CTAGGGACCTATTAAGAGAGTTCACACAGCCAAAAATCTTCTCAACAGTGTGATTGGAA
GAGCCCTCGGCATCTCACATGCAAAAGACAAACTAGTCTACGTGCACACAAATGGACCGA
AGAAAAAGAAAGTCACTGCACATAAAATGGCCCAAGAGCGTGGAGGTAGAAGGCTATG
GCAGCAAGAAGATCAGGNNCCGGNGAAAGGCTGCANCTGCAGCCTGCCAGCTGTTCAA
GGGTTGGGGTCTGCTAGGTCGCCGAATGAGTTGTTGACGCAGCCAAATACCGAGTGC
TAGCTGATCGCTGTGGCTCCCCTGCCGACGCTGGGTGGCGTCCGGGACCCACCATGCCCC
CTACTTCTGGCGGCAGCTGAATCCAGAGAGTATTCGACCAGGGGGACCTGGGGCCTA
TCCCGCTCTTTAGCCGGGNAAGANAGGAGACGAGGNAGAAGAGCTAGAAAAGGGGACCT
AGATGTTACCGACTTCTTGGTATGACCAGCAGGATTCCACGCTGCCTCAGGACTCAA
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_138615 unedited AATCTTGNACCGCGCCGAATCTANATCGAGTTTTTTTTTTTTTTTTTTTCAACAAGGGAT AAATAGAACTTTATTTTAAATAAACATTTGCACTCTGTACACAGCCCCAGCAGAAGCAGG GCTCAGTCGTGAGCTGTCTTGCAGCATCAAAGCTGCCACAGGGTCTCGCAGCAGCTCT GCCAGTAGCGCAAGCAGCTGCCCGTGTCTCTGTACGCTGGGGGAAGTGCAGCCAGC TCGCTGCGCAGGCTCCGCTCCACCATGCGGCCAGGGCCCGCCGAGCTCCTTCAGCAGC CGCACGGTACCGGAGTACCCTCCAGCCGAGGTCAGTGTGCTCAGTGTGATGGTG GCCCGGCCCGTCATCACGGATGTGCAGTCCCGTCGGTTCAGCAGCAGCACAGCTAGC GGTGCACCTGAGAGGAGTCCCGGACGAAGACGCTGCCATTGGACTTGACTGCCATGAAA TACGTCAGCCATCGGCTCCGTAACCGTGTGGCCTCCCTGTTAATGGTCGACTTGTGCAGC AGGATGTTGCCTGATTTGGTCTATATGTGACGCTGTTGGGCTTGAACCTCCCCTGCCGG GTGACCTTGCCCTGCCTCACCTGGATGAGGTTGGGGGTAGAAGCCCGGCATCAACACGCC CCTTTACCAAGTTCCTCCCTCCTCAATGGACCTCGTTGCACTGGGGCGGAGGCCAAGGGG GCAGTCCCAGGGCTTCCCCCAGGAAGGGCCTCTATAAAGTTCTTGGAGAACTGGCT TGAAGAATCCCGGGGATAAAAACGCAAGGCTGGGTGGCCTACACGAGGTTTTCTCCCG AGGGAAATCCCCCGGAAGACTGGGGTACTGGGCCAAGCAAAATCTTTCTACCCAGCGG GG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_138615
<b>Insert Size:</b>	3900 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_138615.1</a> , <a href="#">NP_619520.1</a>
<b>RefSeq Size:</b>	3851 bp
<b>RefSeq ORF:</b>	3585 bp
<b>Locus ID:</b>	22907
<b>UniProt ID:</b>	<a href="#">Q7L2E3</a>
<b>Cytogenetics:</b>	3p21.31
<b>Domains:</b>	DSRM, DEAD, 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 (1) encodes the longer isoform (1).