

## Product datasheet for **MC223976**

### Dhx30 (NM\_133347) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dhx30 (NM\_133347) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Dhx30  
**Synonyms:** 2810477H02Rik; C130058C04Rik; Ddx30; HELG; Ret-CoR  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223976 representing NM\_133347  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTGACTCCTGTCTGTAATTCAGCACTTGGCAGCCCAAGGATTCAGCTTTCTCTCCTGGCCAGAAA  
 TGTTTCAGCTTGGACTCATTGAGAAAAGATCGGACCCAGCACAGGCAGCGTCAATGCAAGCTTCCCCACC  
 CCGTCTTCCACCCATGTGTGTCAACCCTGCCCTGGAGGGACCATCACTCGAGCTTCTAGGGACCTATTA  
 AAAGAGTTTCCGAGCCTAAAACTTCTCAACAGCGTGATTGGAAGAGCCCTTGGCATCTCACATGCAGAA  
 AAGACAAGTTAGTCTATGTGCACACGAATGGACCGAAGAAAAAGAAAGTACCCTGCACATAAAGTGGCC  
 CAAGAGCGTGGAGGTGGAAGGCTATGGCAGCAAGAAGATTGATGCTGAGCGTCAGGCTGCAGCAGCTGCC  
 TGCCAACCTTCAAGGGCTGGGGTCTGCTGGGACCACGGAATGAGCTGTTTATGACAGCTAAATACCGAG  
 TGCTAGCTGATCGTTTTGGGTCTCCAGCTGACAGCTGGTGGCGCCAGAACCCACCATGCCTCCAACCTC  
 CTGGCGGCAGCTGAATCCTGAGAACATTCGGCCAGGGGGTCTGCAGGACTATCCCGATCCTTAGGCCGA  
 GAGGAAGAGGAAGATGAGGAGGAAGACTAGAAGAGGGGACCATTGATGTGACAGAGTTTCTGTCTATGA  
 CCCAGCAAGACTCCACAACCCACTCAGGGACTCAAGGGGGGGCTCCTTTGAAATGACAGATGATGACAG  
 TGCTATCAGAGCTCTGACCCAGTTTCCACTTCCCAAGAACCTCCTGGCCAAAGTGATTGAGATTGCAACC  
 TCTCCTCCACAGCTAAGAATCTCATGAGTTCATACTGTGGTACCAAGACCAAGCTGGCTACTACTCA  
 CTCTGCTTGGCCCTGTCCCATGACCTTTGTTGCCAAAGGGCGACGCAAAGCTGAGGCTGAGAATAAGGC  
 AGCAGCCTTGGCTTGCAAGAACTGAAGAGCCTTGGCCTTGTGGACAGGAACAATGAGCCGCTTACCCAT  
 GCCATGTACAACCTGGCCTCCCTGCGTGAGTTGGGTGAGACCCAGCGCCGGCCATGTACCATCCAGGTGC  
 CTGAGCCCATCCTTCGAAGATAGAGGCCTTCTGAGTCAATACCCGGTGGACAGCTCATGGATTTCCC  
 AGAACTCCGACTGCAGAGTGATGACATCTTGCCCTTAGGCAAGGACTCAGGGCCCTTGTAGTACCCTATC  
 ACAGGCAAGCCATACATGCCCTGTCAGAAGCAGAGGAGGTGCGCTTAAGCCAGAGCCTGCTAGAGCTGT  
 GGCGGAGGAGAGGGCCGATCTGGCAGGAGGCCCGCAGCTACCTGTAGACCCTCATCGGGACACTATCCT  
 CAGTGCCATTGAACAACCCAGTGGTAGTCTCTGGGGACACAGGCTGTGGGAAGACCACACGTATC  
 CCTCAGCTGCTATTGGAGCGCTATGTGACTGAGGGTTCGAGGTGCCCGCTGCAATGTGATCATCACACAAC



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CTCGCCGGATCTCAGCTGTGTCTGTGGCACAGCGGGTCAGCCATGAACTGGGCCCCCTCTTGCGCCGGAA  
 TGTGGGCTTCCAGGTACGCTTGGAAAGTAAGCCCCAGCCGAGGTGGGGCGCTGCTTCTGCACTGTG  
 GGTATCTGTCTCGAAGCTGCAGAGCAACCCAGCCTGGAGGGTGTGAGCCATGTCATTGTGGATGAGG  
 TCCATGAGCGGGATGTGAACACAGACTTCTGTGATTCTGTCAAGGGCCTGCAGCGGCTCAACCCAGC  
 TCTTCGGCTGGTCTCATGAGTGTACAGGAGATAATGAGCGCTTTCCCGATACTTTGGGGGTGCCCT  
 GTTATCAAGGTACCTGGCTTCATGTATCCCGTCAAGGAACACTACCTGGAGGACATCTTGCCAAAGCTGG  
 GTAACATCAGTACCCACACCGGCATCGGCACCATGAGTCGGAAGATGAATGTGCACTTGATTTGGACCTGG  
 TGTGACTGACCTGGTTCTGCATATCGATGCCCGTGGGGAACAGGTGGGATCCTGTGCTTTCTACCTGGC  
 TGGCAAGAAATCAAAGGAGTGCAACAACGGCTCCAGGAGGCCCTGGGCATGCATGAAAGCAAGTACCTCA  
 TCTTACCAGTGCCTCAATATCCCATGATGGACCAGAAGGCCATATTCCAACAGCCTCCACTTGGGGT  
 ACGCAAGATTGTATTGGCCACCAACATTGCTGAAACCTCCATCACAGTTAACGACATTGTACATGTCGTG  
 GACAGCGGTCTGCACAAGGAGGAACGCTATGACCTGAAGACCAAGGTGTCCTGCCTGGAGACTGTGTGGG  
 TGTCGAGAGCAAATGTCATTAGCGCCGGGGCAGGGCAGGCCGCTGCCAGTCAGGTTTTGCCTACCACTT  
 GTTCCCGAGGAGCCGGCTGGAGAAAATGGTTCTTTCCAAGTCCAGAGATCCTGCGCACACCTCTTGAG  
 AACCTGGTGTGCAAGCCAAAATCCATATGCTGAGAAGACGGCAGTGGAGTTCTCTCTAAGGCTGTGG  
 ACAGTCCAAATATCAAGGCAGTGGATGAGGCCGTGATCCTGCTCCAGGAGATTGGGGTGTGGACCAGCG  
 GGAGTATCTGACCACCTTGGGACAGCGCCTGGCCACATCTCTACTGACCCCGACTGGCCAAGGCCATA  
 GTGTTGGCTGCCATCTTCGGTTGCCTGCACCCACTGCTGGTGGTTGTTTCTGCCTTACCCGGGACCCCT  
 TCAGCAGCAGTTTGCAGAACCGGCAGAAAGTAGACAAGGTGAAGGCATTGCTGAGCCATGACAGTGGCAG  
 TGACCATTTGGCCTTCGTGCGGGCTGTGGCTGGCTGGGAGGAGGTACTGCGCTGGCAGGACCGTACCTCC  
 AGGGAAAACACTACCTGGAAGAAAACCTTCTGTATGCCCCAGCTTGGCCTTATCCACGGGCTCATCAAGC  
 AGTTCTCAGAGAACATTTATGAGGCTTCTAGTGGGGAAGCCCTCTGACTGCACACTGCCCTCTGCTCA  
 ATCCAGGTGAGACAAGGTAAGGTTACTCGGCAAGGCAAGTTCAAACCCAACAGTGTCACTTACAGGACCA  
 AATCTGGCAACATCTTGCTGCATAAGTCAACCATTAACAGGGAGGCTACCCGGTTACGGAGCCGATGGCT  
 GACATATTTATGGCCGTCAGTCCAATGGTAGCGTCTTTGTTGAGATTCTCCAGGTGCACCCACTA  
 GCTGTGTTGCTCCTAACAGATGGGGACGTGCACATCCGAGATGATGGGCGTCGGGCCACCATCTCATTGA  
 GTGACAGCGACCTGCTTCGGCTGGAAGGTGATTCACGAACTGTGCGGTTGCTAAGGGAGTTTCGTCGAGC  
 CCTAGGACGGATGGTGGAGCGGAGCCTCCGCAGCGAGTTAGCTGCACTTCTCTTAGTGTGCAGCAAGAA  
 CACGGGCAGCTGCTTGCCTGCTGGCAGAGTTGCTTCGAGGACCTTGTGGCAGCTTTGATATGCGCAAGA  
 CAGCTGATGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_133347

**Insert Size:**

3654 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:**

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\\_133347.2](#), [NP\\_579925.1](#)

**RefSeq Size:** 3904 bp

**RefSeq ORF:** 3654 bp

**Locus ID:** 72831

**UniProt ID:** [Q99PU8](#)

**Cytogenetics:** 9 F2

**Gene Summary:** RNA-dependent helicase (PubMed:25219788). Plays an important role in the assembly of the mitochondrial large ribosomal subunit (By similarity). Required for optimal function of the zinc-finger antiviral protein ZC3HAV1 (By similarity). Associates with mitochondrial DNA (By similarity). Involved in nervous system development and differentiation through its involvement in the up-regulation of a number of genes which are required for neurogenesis, including GSC, NCAM1, neurogenin, and NEUROD (PubMed:25219788).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) uses an alternate splice site and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) is longer and has a distinct N-terminus, compared to isoform 1.