

Product datasheet for **MC229485**

Dhx30 (NM_001252683) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dhx30 (NM_001252683) 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: >MC229485 representing NM_001252683
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGCTGCCAGGCGGCTCATGGCGTGGCTGCCGGCTCTCTCCGCGCTCCGGCCCGGATCCCC
 TTGTGCTTCCGGGCGACAAGGATGTTCCGCGGCTTCTCATCAAGCTTTGTCCGCTCTGATGGCACTCA
 GGAAGCTGCCGAGGTGCAATCAGAGGTGGCCCTAGCGAGCTGGGGAGGGTGACGGAAGCATGGTGAAC
 GCTTCTAGGGACCTATTAAGAGGTTTCCGCGAGCTAAAAACCTTCTCAACAGCGTGATTGGAAGAGCCC
 TTGGCATCTCACATGCAAAAGACAAGTTAGTCTATGTGCACACGAATGGACCGAAGAAAAAGAAAGTCA
 CCTGCACATAAAGTGGCCCAAGAGCGTGGAGGTGGAAGGCTATGGCAGCAAGAAGATTGATGCTGAGCGT
 CAGGCTGCAGCAGCTGCCAAGTCTTCAAGGGCTGGGGTCTGCTGGGACCACGGAATGAGCTGTTTTG
 ATGCAGCTAAATACCGAGTGCTAGCTGATCGTTTTGGTCTCCAGCTGACAGCTGGTGGCCCGCAGAACC
 CACCATGCCTCCAAGTCTTCCGCGCAGCTGAATCCTGAGAATTCGGCCAGGGGGTCTGCAGGACTA
 TCCCGATCCTTAGGCGGAGAGGAAGAGGAGATGAGGAGGAAGAGCTAGAAGAGGGGACCATTGATGTGA
 CAGAGTTTCTGTCTATGACCCAGCAAGACTCCCAACCCACTCAGGGACTCAAGGGGGGCTCCTTTGA
 AATGACAGATGATGACAGTGTATCAGAGCTCTGACCCAGTTTCCACTTCCCAAGAACCTCTGGCCAAA
 GTGATTACAGATTGCAACCTCCTCCTCCACAGCTAAGAATCTCATGCAGTCCATACTGTGGTACCAAGA
 CCAAGTGGCTACACTACTCTGCTCTGGCCCTGTCCCATGACCTTTGTTGCCAAAGGGCGACGCAAGC
 TGAGGCTGAGAATAAGGCAGCAGCCTTGGCTTGAAGAACTGAAGAGCCTTGGCCTTGTGGACAGGAAC
 AATGAGCCGTTACCATGCCATGTACAACCTGGCCTCCTGCGTGAGTTGGGTGAGACCAGCGCCGGC
 CATGTACCATCCAGGTGCCTGAGCCATCCTTCGCAAGATAGAGGCTTCTGAGTCATTACCCGGTGA
 CAGCTCATGGATTTCCCAAGACTCCGACTGCAGAGTGATGACATCTTGCCTTAGGCAAGGACTCAGGG
 CCCTTGAGTGACCCTATCACAGCAAGCCATACATGCCCTGTGAGAAGCAGAGGAGGTGCGCTTAAGCC
 AGAGCCTGCTAGAGCTGTGGCGGAGGAGGGCCGATCTGGCAGGAGGCCCGCAGCTACCTGTAGACCC
 TCATCGGGACACTATCCTCAGTGCCATTGAACAACCCAGTGGTAGTCATCTCTGGGGACACAGGCTGT
 GGAAGACCACACGTATCCCTCAGCTGCTATTGGAGCGCTATGTGACTGAGGGTCCGAGGTGCCCGCTGCA



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ATGTGATCATCACACAACCTCGCCGGATCTCAGCTGTGTCTGTGGCACAGCGGGTCAGCCATGAACTGGG
 CCCCTCCTTGCGCCGGAATGTGGGCTTCCAGGTACGCTTGAAAGTAAGCCCCAGCCCCAGGTGGGGCG
 CTGCTCTTCTGCACTGTGGGTATCTGTCTCGGAAGCTGCAGAGCAACCCAGCCTGGAGGGTGTGAGCC
 ATGTCATTGTGGATGAGGTCCATGAGCGGGATGTGAACACAGACTTCTGCTGATTCTGCTCAAGGGCCT
 GCAGCGGCTCAACCCAGCTCTTCGGCTGGTGCATGAGTGTACAGGAGATAATGAGCGCTTTCCCGA
 TACTTTGGGGCTGCCCTGTTATCAAGGTACCTGGCTTCATGTATCCCGTCAAGGAACACTACCTGGAGG
 ACATCTTGGCCAAGCTGGTAAACATCAGTACCCACACCCGCATCGGCACCATGAGTCGGAAGATGAATG
 TGCACTTGATTTGGACCTTGTGACTGACCTGGTTCTGCATATCGATGCCCGTGGGAACAGGTGGGATC
 CTGTGCTTTCTACCTGGCTGGCAAGAAATCAAAGGAGTGCAACAACGGCTCCAGGAGGCCCTGGGCATGC
 ATGAAAGCAAGTACCTCATCTTACCAGTGCACCTCAATATCCCCATGATGGACCAGAAGGCCATATTCCA
 ACAGCCTCCACTTGGGGTACGCAAGATTGTATTGGCCACCAACATTGCTGAAACCTCCATCACAGTTAAC
 GACATTGTACATGTCGTGGACAGCGGTCTGCACAAGGAGGAACGCTATGACCTGAAGACCAAGGTGTCT
 GCCTGGAGACTGTGTGGTGTGAGAGCAAATGTATTACGCGCCGGGCAGGGCAGGCCGCTGCCAGTC
 AGGTTTTGCCTACCACTTGTCCCGAGGAGCCGGCTGGAGAAAAATGGTTCCTTTCCAAGTCCAGAGATC
 CTGCGCACACCTTTGAGAACCTGGTGTGCAAGCCAAAATCCATATGCCTGAGAAGACGGCAGTGGAGT
 TCCTCTTAAGGCTGTGGACAGTCCAAATATCAAGGCAGTGGATGAGCCGTGATCCTGCTCCAGGAGAT
 TGGGGTGTCTGGACCAGCGGGAGTATCTGACCACCTTGGGACAGCCCTGGCCACATCTCTACTGACCCC
 CGACTGGCCAAGGCCATAGTGTGGCTGCCATCTTCCGTTGCCTGCACCCACTGCTGGTGGTTGTTTCT
 GCCTTACCCGGGACCCCTTACAGCAGCAGTTTGCAGAACCAGGGCAGAAAGTAGACAAGGTGAAGGCATTGCT
 GAGCCATGACAGTGGCAGTGACCATTTGGCCTTCGTGCGGGCTGTGGCTGGTGGGAGGAGTACTGCGC
 TGGCAGGACCGTACCTCCAGGAAAACCTACCTGGAAGAAAACCTTCTGTATGCCCCAGCTTGCCTTCA
 TCCACGGGCTCATCAAGCAGTTCTCAGAGAACATTTATGAGGCTTTCCTAGTGGGAAGCCCTCTGACTG
 CACACTGCCCTCTGCTCAGTGAATGAGTACAGCGAGGAAGAGGAGCTGGTGAAGGGTGTGCTGATGGCT
 GGCTCTACCCCAACCTCATCCAGGTGAGACAAGGTAAGGTTACTCGGCAAGGCAAGTTCAAACCCAACA
 GTGCACTTACAGGACCAAACTGGCAACATCTTGTGATAAGTCAACCATTAACAGGGAGGCTACCCG
 GTTACGGAGCCGATGGCTGACATATTTTATGGCCGTCAAGTCCAATGGTAGCGTCTTTGTTGAGATTCC
 TCCCAGGTGCACCCACTAGCTGTGTGCTCCTAACAGATGGGGACGTGCACATCCGAGATGATGGCGCTC
 GGGCCACCATCTCATTGAGTGACAGCGACCTGCTTCGGCTGGAAGGTGATTCACGAACTGTGCGGTTGCT
 AAGGGAGTTTCGTGAGCCCTAGGACGGATGGTGGAGCGGAGCCTCCGCAGCGATTAGCTGCACCTCCT
 CTTAGTGTGCAGCAAGAACACGGGCAGCTGCTTGCAGTGTGGCAGAGTTGCTTCGAGGACCTTGTGGCA
 GCTTTGATATGCGCAAGACAGCTGATGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001252683
- Insert Size:** 3672 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001252683.1](#), [NP_001239612.1](#)

RefSeq Size: 3807 bp

RefSeq ORF: 3672 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 (3) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (3) is longer and has a distinct N-terminus, compared to isoform 1.