

## Product datasheet for **MG211825**

### Dhx30 (BC016202) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dhx30 (BC016202) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dhx30
Synonyms:	HELG, Ddx30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211825 representing BC016202 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCTGCCAGGCGGCTCATGGCGCTGGCTGCCGGCGTCTCTCCGCGCTCCGGCCCGGATCCCC  
TTGTTCGTTCCGGGCGACAAGGATGTTCCGCGGCTTCTCATCAAGCTTTGTCCGCTCTGATGGCACTCA  
GGAAGCTGCCGAGGTGCAATCAGAGGTGGCCCTAGCGAGCTGGGGAGGGTACCGAAGCATGGTGAAC  
GCTTCTAGGGACCTATTAAGAGTTTCCGCAGCCTAAAACTTCTCAACAGCGTGATTGGAAGAGCCC  
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CCTGCACATAAAGTGGCCCAAGAGCGTGGAGGTGGAAGGCTATGGCAGCAAGAAGATTGATGCTGAGCGT  
CAGGCTGCAGCAGCTGCCTGCCAACTCTCAAGGGCTGGGGTCTGCTGGGACCACGGAATGAGCTGTTTG  
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CACCATGCCTCCAACCTCCTGGCGGAGCTGAATCCTGAGAACATTCGGCCAGGGGGTCTGCAGGACTA  
TCCCGATCCTTAGGCCGAGAGGAAGAGGAAGATGAGGAGGAAGAGCTAGAAGAGGGGACCATTGATGTA  
CAGAGTTTCTGTCTATGACCCAGCAAGACTCCCAACCCACTCAGGGACTCAAGGGGGGCTCCTTTGA  
AATGACAGATGATGACAGTGCTATCAGAGCTCTGACCCAGTTTCCACTTCCCAAGAACCTCCTGGCCAAA  
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TGAGGCTGAGAATAAGGCAGCAGCCTTGCTTGAAGAACTGAAGAGCCTTGGCCTTGTGGACAGGAAC  
AATGAGCCGCTTACCCATGCCATGTACAACCTGGCCTCCTGCGTGAGTTGGGTGAGACCAGCGCCGGC  
CATGTACCATCCAGGTGCCTGAGCCATCCTTCGCAAGATAGAGGCCCTCCTGAGTCATTACCCGGTGA  
CAGCTCATGGATTTCCCAAGACTCCGACTGCAGAGTGATGACATCTGCCCTTAGGCAAGGACTCAGGG  
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AGAGCCTGCTAGAGCTGTGGCGGAGGAGGGCCGATCTGGCAGGAGGCCCGCAGCTACCTGTAGACCC  
TCATCGGGACACTATCCTCAGTGCCATTGAACAACCCAGTGGTAGTCATCTCTGGGACACAGGCTGT



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GGGAAGACCACACGTATCCCTCAGCTGCTATTGGAGCGCTATGTGACTGAGGGTCGAGGTGCCCGCTGCA  
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 AAGGGAGTTTCGTCGAGCCCTAGGACGGATGGTGGAGCGGAGCCTCCGCAGCGAGTTAGCTGCACCTTCT  
 CTTAGTGTGCAGCAAGAACACGGGCAGCTGCTTGCCTGCTGGCAGAGTTGCTTCGAGGACCTTGTGGCA  
 GCTTTGATATGCGCAAGACAGCTGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG211825 representing BC016202  
 Red=Cloning site Green=Tags(s)

MAAARRLMALAAGVSPRLRPPDPLVASGRQGCSRGFSSSFVRS DGTQEAAEVESEVAPSEPGEGDGMVN  
 ASRDLLKEFPQPKNLLNSVIGRALGISHA KDKLVYVHTNGPKKKKVTLHIKWPKSVEVEGYGSKIDAER  
 QAAAAACQLFKGWGLLGP RNELFDAKYRVLADRF GSPADSWWRPEPTMPPTSWRQLNPNENIRPGGPAGL  
 SRSLGEEEEEEEELEEGTIDVTEFLSMTQQDSHNPLRDSRGGSFEMTDDDSAIRALTQFPLPKNLLAK  
 VIQIATSSSTAKNLMQFHTVGT KTKLATLTLWP CPMTFVAKGRRKAEAEENKAAALACKKLSLGLVDRN  
 NEPLTHAMYNLASLRELGETQRRPCTIQVPEPILRKIEAFLSHYPVDSSWISPELRLQSDDILPLGKDSG  
 PLSDPITGKPYMPLSEAEVRLSQSLELWRRRGP IWQEAPQLPVDPHRDTILSAIEQHPVVVISGDTGC  
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 DIVHVVD SGLHKEERYDLKTKVSCLETVWYSRANVIQRRGRAGRCQSGFAYHLFPPSRLEKMVPFQVPEI  
 LRTPLENLVLQAKIHMPEKTAVEFLSKAVD SPNIKAVDEAVILLQEIGVLDQREYLTTLGQRLAHI STDP  
 RLAKAIVLAAIFRCLHPLL VVVVSLTRDPFSSSLQNAEVDKVKALLSHDSGSDHLAFVRAVAGWEEVLR  
 WQDRTSRENYLEENLLYAPSLRF IHGLIKQF SENIYEAFLVGKPSDCTLPSAQCN EYSEEEELVKGV LMA  
 GLYPNLIQVRQGVTRQGKFKPNSV TYRTKSGNILLHKSTINREATRLRSRWLTYFMAVKSNGSVFVRDS  
 SQVHPLAVLLLTDGDVHIRDDGRRATISLSDS DLLRLEGDSRTVRLREFRRALGRMVERSLRSELAALP  
 LSVQQEHGQLLALLAELLRGPCGSFDMRKTADD

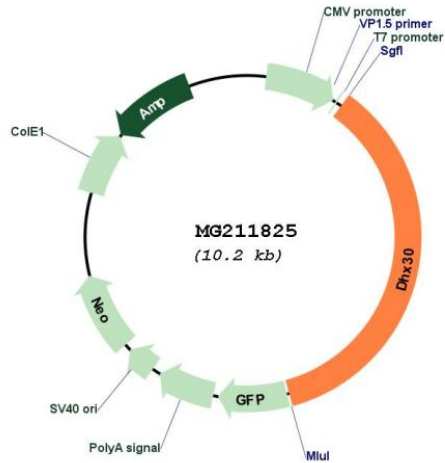
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** BC016202

**ORF Size:** 3669 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:** [BC016202.1](#)

**RefSeq Size:** 3768 bp

**RefSeq ORF:** 3671 bp

**Locus ID:** 72831

**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]