

## Product datasheet for **MG226488**

### Dhx30 (NM\_133347) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dhx30 (NM_133347) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dhx30
Synonyms:	2810477H02Rik; C130058C04Rik; Ddx30; HELG; Ret-CoR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226488 representing NM_133347 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGACTCCTGTCTGTAATTCAGCACTTGGCAGCCCAAGGATTCAGCTTTCTCCTGGCCAGAAA  
TGTTTCAGCTTGGACTCATTTCAGAAAAGATCGGACCCAGCACAGGCAGCGTCAATGCAAGCTTCCCCACC  
CCGTCTCCACCCATGTGTGTCAACCTGCCCTGGAGGGACCATCACTCGAGCTTCTAGGGACCTATTA  
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CAAGAGCGTGGAGGTGGAAGGCTATGGCAGCAAGAAGATTGATGCTGAGCGTCAGGCTGCAGCAGCTGCC  
TGCCAACCTCTCAAGGGCTGGGGTCTGCTGGGACCACGGAATGAGCTGTTTGATGCGACTAAATACCGAG  
TGCTAGCTGATCGTTTTGGGTCTCCAGCTGACAGCTGGTGGCGCCAGAACCCACCATGCCTCAACTTC  
CTGGCGGCAGCTGAATCCTGAGAATTCGGCCAGGGGTCTGCAGGACTATCCCGATCCTTAGGCCGA  
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AGCAGCCTTGCTTGCAAGAACTGAAGAGCCTTGGCCTTGTGGACAGGAACAATGAGCCGCTTACCCAT  
GCCATGTACAACCTGGCCTCCCTGCGTGAGTTGGGTGAGACCCAGCGCCGCCATGTACCATCCAGGTGC  
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GGCGGAGGAGAGGGCCGATCTGGCAGGAGGCCCGCAGCTACCTGTAGACCCTCATCGGGACACTATCCT  
CAGTGCCATTGAACAACCCAGTGGTAGTCATCTCTGGGACACAGGCTGTGGGAAGACCACAGTATC



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CCTCAGCTGCTATTGGAGCGCTATGTGACTGAGGGTCGAGGTGCCCGCTGCAATGTGATCATCACACAAC  
CTCGCCGGATCTCAGCTGTGTCTGTGGCACAGCGGGTCAGCCATGAACTGGGCCCTCTTGCGCCGAA  
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AATCTGGCAACATCTTGTGCATAAGTCAACCATTAAACAGGGAGGCTACCCGGTTACGGAGCCGATGGCT  
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GCTGTGTTGCTCCTAACAGATGGGGACGTGCACATCCGAGATGATGGGCGTCGGGCCACCATCTCATTGA  
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CCTAGGACGGATGGTGGAGCGGAGCCTCCGCAGCGAGTTAGCTGCACTTCTCTTAGTGTGCAGCAAGAA  
CACGGGCAGCTGCTTGCCTGCTGGCAGAGTTGCTTCGAGGACCTTGTGGCAGCTTTGATATGCGCAAGA  
CAGCTGATGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG226488 representing NM\_133347  
 Red=Cloning site Green=Tags(s)

MVTPVCNSSTWQPKDSSFLSWPEMFLDSFRKDRDQHRQRQCKLPPPRLPMPVCNVPAGGTITRASRDLL  
 KEFPQPKNLLNSVIGRALGISHAKDKLVYVHTNGPKKKKVTLHIKWPKSVEVEGYGSKKIDAERQAAAAA  
 CQLFKGWGLLGRNELFDAKYRVLADRFSPADSWWRPEPTMPPTSWRQLNPENIRPGGPAGLSRSLGR  
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 TGKPYMPLSEAEVRLSQSLELWRRRGIWQEAPQLPVDPHRDTILSAIEQHPVVVISGDTGCGKTTTRI  
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 GILLRKLQSNPSLEGVSHVIVDEVHERDVNTDFLLILLKGLQRLNPALRLVMSATGDNERSRYFGGCP  
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 WQEIKGVQORLQEQALGMHESKYLILPVHSNIPMMDQKAIQQPPLGVRKIVLATNIAETSITVNDIVHVV  
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 NLVLQAKIHMPEKTAVEFLSKAVDSPNIKAVDEAVILLQEIQVLDQREYLTTLGQRLAHISTDPRLAKAI  
 VLAAIFRCLHPLLVVVSCLTRDPFSSSLQNAEVDKVKALLSHDSDGDLAFVRAVAGWEEVLRWQDRS  
 RENYLEENLLYAPSLRFIHGLIKQFSENIYEAFLVGKPSDCTLPSAQCNEYSEEEELVKGVLMAGLYPNL  
 IQVRQGVTRQGKFKPNSVTYRTKSGNILLHKSTINREATRLRSRWLYTFMAVKSNGSVFVRDSSQVHPL  
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 HGQLLALLAELLRGPCCGSFDMRKTADD

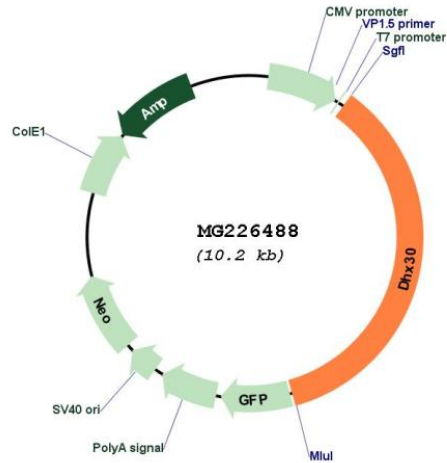
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_133347

**ORF Size:** 3651 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:** [NM\\_133347.2](#), [NP\\_579925.1](#)

**RefSeq Size:** 3903 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]