

Product datasheet for **MG212865**

Ddx31 (NM_001033294) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddx31 (NM_001033294) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ddx31
Synonyms:	5830444G11Rik; Gm997
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG212865 representing NM_001033294
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCGCAAGCAGAGGCTACCAAGAGAAAGCACCAAGTGTCAGTGATGCTCCACCAGCAAACGGA
 GGAGTGAATATCCTCTGTTTTGGCCAAGAAAGCCAGTGATAAAGAACTCAGAGAACATTTAAAGGGAG
 TACACACAAAACGTTTCTCCAAAGAAGTATTTGGACAGTATAGCAATGGAAGGCAAGAGGAGAAGCCA
 TGCATCAAGACTTCATCGCTGTTAAAAACAACCTGAGATCCCAGAATCCACAGCACTGTAGTGAAGC
 AGGCTCGAGAGCAAGTGTCTCTCCAGAAGCTTCCAGGAGCTGGACCTCACCCACATCTAATTTCTAC
 AATAAATACAGTCTTAAAAATGTCCAGTATGACCAGTGTTCAGAAGCAGAGTATCCAGTGTCTGTGAA
 GGCAGAGATGCCCTAGTGCAGTCCAGACGGGCTCAGGAAAACCTTGCCTATTGCGTCCCTGTGGTCC
 AGTCTCTCAAGCACTGACATCAAAAATACAGCGCAGTGTGACCGTATGCTTTGGTCTAGTGCCAC
 CAGAGAGTTGGCTCTGCAAAGCTTTGACTGTTCAGAAGCTACTTAAGCCATTCACCTGGATTGTCTCT
 GGAGTGTGATGGGTGGAGAGAAGGAAATCGGAAAAAGCTAGACTCCGAAAAGGCATAAATATCCTTA
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 GCTGTCAATGCTGAGTGTGAGAAACGGCAGAAATGTCTCTGTGACGACACTCACAGAAGGTGTAACAC
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 TTGGTTCCAGCAAGCTACGTCTTGTCTGCCTTGACGCTTTCATCCTGCAAAAGTGAAGTTTGAGAAGA
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 CCTGCTTTGCCACTCAGGGACCCCTACTTCAGAGCATCTGCCATCTGCCTCCTGGCCACTGAAATTCCTT
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 CAGTGTCCGTCTTACCTGCAGAGTACATTCACCGCATCGGAAGAACTGCCCGATTGGCTGTCATGGG
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 GGGAGCCAGAAATCCCCTGCCAGTGGCCCCAGGAAATCCGAGAACGAGCCACAGTATTGCAGACAGTG
 TTTGAAGATTATGTGACTCCAGTCAAGGATGGTCTCCTGGGCTAAGAAAGCCCTGCAGTCTTATCC
 GAGCCTATGCCACCTACCCAAGGAGCTGAAGTCCATCTCCATGTCCGAGCCCTACACCTTGGGCACGT
 GGTAAGAGTTTTGGACTAAGAGATGCTCTAGAAACCTCAGTGTCTCTGCTGTGAAGAAGGCAAGCTTA
 AAAAGGCCTCACCTCGGAGGAAGACGCAGAGGAAGCAGCACCTTGTGCCTGCTGAAGTCTGCACTCAG
 AACACTCAAGTGGGCTGGAGGGTGGTCCACGAAGTGCAGAAAGCAAGGCAAAACAACAGGGCCTTCAAGT
 GGCACCCAGCAAGCCGGGGCCGTGGAGAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG212865 representing NM_001033294
 Red=Cloning site Green=Tags(s)

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MKRQAEATKRKHQVSSDAPPAKRREISSVLAKKASDKETQRTFKGSTHKTFPPKKYLDSIGNRQEEKP
CIKTSSLFKNNPEIPELHSTVVKQAREQVFSPEAFQELDLHPLHISTINTVLKMSMSTSVQKQSIPLLE
GRDALVRSQTGSGKTLAYCVPVQSLQALTSKIQRSDGPYALVLPTRRELALQSFDTVQKLLKPF TWIVP
GVLMGGEKRKSEKARLRKGINILISTPGRLVDHIKSTKNLHFNRIRWLI VDEADRILDLGF EKDITVILN
AVNAECQKRQNVLLSATL TEGVTRLVDISLHNPVSI SVLDKNCNPKEVASIQLNSFAIPESLDQHVV
LVPSKLRVLCLAAFILQCKFEKNQKMI VFFSSCELVFHYSLFLHTLLCHSGTPTSEHLPSASWPKFL
RLHGNMEQEERTSVFHEFESHSETGVLLCTDVASRGLDLPQVTWIVQYSAPSSPAEYIHRIGRTARIGCHG
SSLLILAPSEAEYVNSLASHKINVGEIKMEDILAVLAKDDCFKRRQRGAQKSRASGPQEIRERATVLTQTV
FEDYVHSSQRMVSWAKKALQSFIRAYATYPKELKSI FHVRLHLGHVAKSFGLRDAPRNLSVSAVKKASL
KRPHPRRKTQRKQHLVPAEVLHSEHSSGLEGGATKCRKQKQQLQVAPSKPGPWRE
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001033294

ORF Size: 2061 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_001033294.3](#), [NP_001028466.2](#)

RefSeq Size: 3328 bp

RefSeq ORF: 2064 bp

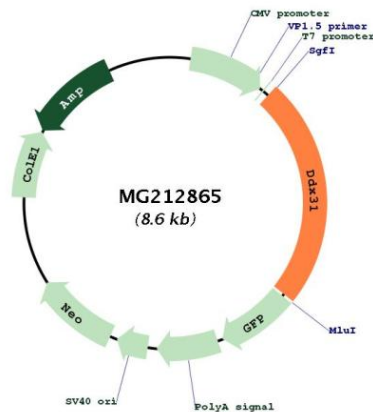
Locus ID: 227674

UniProt ID: [Q6NZQ2](#)

Cytogenetics: 2 A3

Gene Summary: Probable ATP-dependent RNA helicase (By similarity). Plays a role in ribosome biogenesis and TP53/p53 regulation through its interaction with NPM1 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG212865