

Product datasheet for **RG200917**

DDX21 (NM_004728) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX21 (NM_004728) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDX21
Synonyms:	GUA; GURDB; RH-II/GU; RH-II/GuA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG200917 representing NM_004728
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGGGAAACTCCGTAGTGACGCTGGTTTGAATCAGACACCGCAATGAAAAAGGGGAGACACTGC
 GAAAGCAAACCGAGGAGAAAGAGAAAAAGAGAAAGCCAAATCTGATAAGACTGAAGAGATAGCAGAAGA
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 GCGGGAAGGCAGTAGAGGCCGAGAGGACAGCGATCAGGAGGTGGCAACAAAAGTAACAGATCCCAAAAC
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

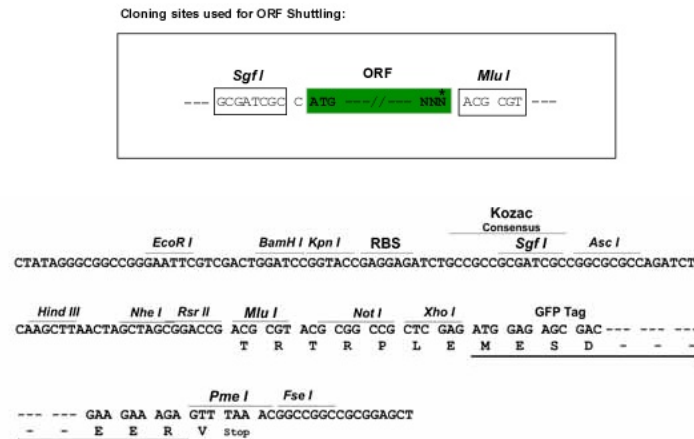
Protein Sequence: >RG200917 representing NM_004728
Red=Cloning site Green=Tags(s)

MPGKLRS DAGLES DTA MKKGETLRKQTEEEKKEKPKSDKTEEIAEEEEVTFPAKQVKKKAEPSEVDMN
SPKSKKAKKKKEEPSQNDISP KTKSLRKKKEPIEKVVSSKTKKVTKN EEPSEEEIDAPKPKMKKEKEMN
GETREKSPKLN GFPHPEPCNPSEAASEESNSEIEQEIPVEQKEGAFSNFPISEETIKLLKGRGVTF LF
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DQVEEILSVAYKKDSEDNPQTLLFSATCPHWVFNVAKKYMKSTYEQVDLIGKKTQKTAITVEHLAIKCHW
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LVATNVAARGLDIPEVDLVIQSSPPKD VESYIHRSGRTGRAGRTGVCICFYQHKEEYQLVQVEQKAGIKF
KRIGVPSATEI IKASSKDAIRLLDSVPPTAISHFKQSAEKLIEEKGAVALAAALAHISGATSVDQRSLI
NSNVGFVTMILQCSIEMPNISYAWKELKEQLGEEIDSKVKGMVFLKGKLGVCFDVPTASVTEIQEKWHDS
RRWQLSVATEQPELEGPREGYGGFRGQREGSRGFRGQRDGNRRFRGQREGSRGPRGQRSGGNGKSNRSQN
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004728

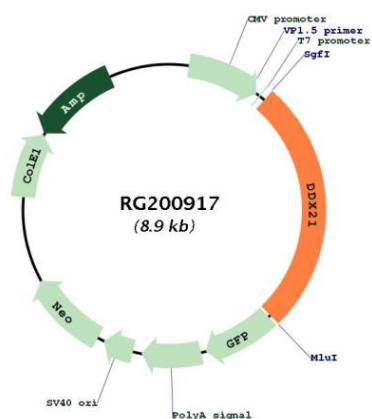
ORF Size: 2349 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004728.4
RefSeq Size:	4153 bp
RefSeq ORF:	2352 bp
Locus ID:	9188
UniProt ID:	Q9NR30
Cytogenetics:	10q22.1
Domains:	DEAD, helicase_C
Gene Summary:	DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein, which is an antigen recognized by autoimmune antibodies from a patient with watermelon stomach disease. This protein unwinds double-stranded RNA, folds single-stranded RNA, and may play important roles in ribosomal RNA biogenesis, RNA editing, RNA transport, and general transcription. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200917