

Product datasheet for **RG232833**

DDX6 (NM_001257191) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX6 (NM_001257191) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDX6
Synonyms:	HLR2; IDDILF; P54; RCK; Rck/p54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG232833 representing NM_001257191
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCACGGCCAGAACAGAGAACCCTGTTATAATGGGTCTGTCCAGTCAAAATGGTCAGCTGAGAGGCC
 CTGTGAAACCCACTGGTGGCCCTGGAGGAGGGGACACAGACACAGCAACAGATGAACCAGCTGAAAA
 CACCAACACAATCAATAATGGCACTCAGCAGCAAGCACAGAGTATGACCACCACTATTAACCTGGTGAT
 GACTGGAAAAAGACTTTAAACTCCCTCCAAGGATCTAAGAATCAAACTTCGGATGTGACCTCCACAA
 AAGGAAATGAGTTTGAAGATTACTGTTTAAACCGGAGTTACTGATGGGAATTTTGAATGGGCTGGGA
 AAAGCCATCTCTATTACAGGAGGAGAGCATTCCCATTGCTTTATCTGGTAGGGATATCTTAGCTAGAGCA
 AAAAATGGAACAGGCAAGAGCGGTGCCTACCTATTCCCTTACTGAACGGCTAGACCTGAAGAAGGACA
 ATATAACAAGCAATGGTGATTGTTCCCACTAGAGAACTTGCTCTACAGGTCAGTCAATTTGCATCCAGGT
 CAGCAAAACACATGGGAGGGCCAAAGTGATGGCAACCACAGGAGGAACCAATTTACGAGATGACATAATG
 AGGCTTGATGATACAGTGCACGTGGTGATTGCTACCCCTGGGAGAATCCTGGATCTTATTAAGAAAGGAG
 TAGCAAAGGTTGATCATGTCCAGATGATAGTATTGGATGAGGCAGATAAGTTGCTGTCCACAGGATTTTGT
 GCAGATAATGGAGGATATTATTCTCACGCTACCTAAAAACAGGCAGATTTTACTATATCCGCTACTTTC
 CCTCTTAGTGACAGAAGTTCATGAATCCCATTTGCAGAAACCCATGAGATTAACCTGATGGAGGAAC
 TAACTCTGAAGGGAGTAACCCAGTACTACGCATATGTAAGTGAAGCGCCAAAAAGTAACTGCCTCAACAC
 ACTTTTCTCCAGGCTTACAGATAAACAGTCGATCATTTTCTGTAAGTCTCTCAGCGAGTTGAATTGCTA
 GCCAAGAAGATTTCTCAACTGGGTTATTCTTGTCTTATATTGCTAAAATGAGGCAGGAACATCGAA
 ATCGTGATTTTCATGATTTCCGAAATGGCTTATGCCCAATCTGTTTGCAGTCTGTTTACCCGAGG
 TATTGATATAACAAGCTGTGAATGTGGTAATAAACTTTGATTTCCCAAGCTGGCAGAGACCTATCTCCAT
 CGTATTGGAAGATCAGGTCGCTTGGTTCATCTGGCTTAGCCATCAACTGATCAGATATGATGATCGCT
 TCAACCTGAAAAGTATTGAGGAGCAGCTGGGAACAGAAATTAACCTATTCGAGCAACATTGATAAGAG
 CCTGTATGTGGCAGAATACCACAGCGAGCCTGTAGAAGATGAGAAACCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG232833 representing NM_001257191
 Red=Cloning site Green=Tags(s)

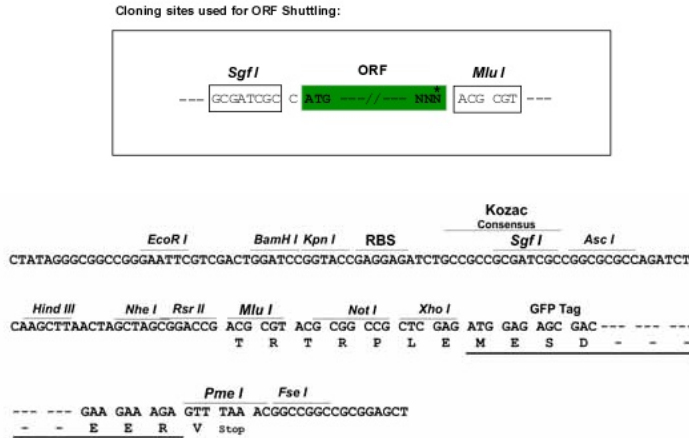
MSTARTENPVIMGLSSQNGQLRGPVKPTGGPGGGGTQTQQQMNQLKNTNTINNGTQQQAQSMTTTTIKPGD
 DWKKTLLKLPKDLRIKTSVDTSTKGNFEDYCLKRELLMGI FEMGWEKPSPIQEESIPIALSGRDILARA
 KNGTGKSGAYLIPLLERLDLKKDNIQAMVIVPTRELALQVSQICIQVSKHMGGAKVMATTGGTNLRDDIM
 RLDDTVHVVIATPGRILDLIKGVAKVDHVQMI VLDEADKLLSQDFVQIMEDIIL TLPKNRQILLYSATF
 PLSVQKFMNSHLQKPYEINLMEELTLKGVQYYAVYTERQKVHCLNTLFSRLQINQSIIFCNSSQRVELL
 AKKISQLGYSCFYIHAKMRQEHNRNVFHDFRNGLCRNLVCTDLFTRGIDIQAVNVVINFDFPKLAETYLH
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TRTRPLE - GFP Tag - V

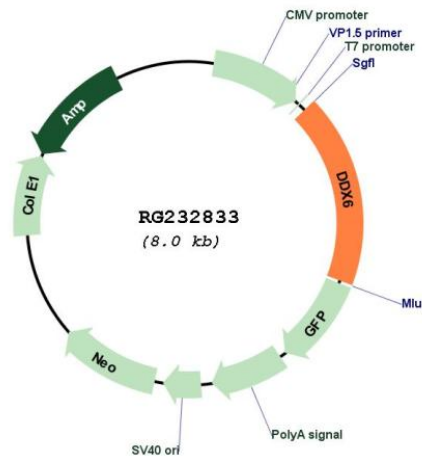
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001257191

ORF Size: 1449 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_001257191.2](#), [NP_001244120.1](#)

RefSeq Size: 6173 bp

RefSeq ORF: 1452 bp

Locus ID: 1656

UniProt ID: [P26196](#)

Cytogenetics: 11q23.3

Protein Pathways: RNA degradation

Gene Summary: This gene encodes a member of the DEAD box protein family. The protein is an RNA helicase found in P-bodies and stress granules, and functions in translation suppression and mRNA degradation. It is required for microRNA-induced gene silencing. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Mar 2012]