

Product datasheet for **RG201477**

DDX56 (NM_019082) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX56 (NM_019082) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDX56
Synonyms:	DDX21; DDX26; NOH61
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201477 representing NM_019082
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGACTCTGAAGCACTGGGCTTCAACACATGGGCCTCGATCCCCGGCTCCTTCAGGCTGTACCCG
 ATCTGGGCTGGTCGCGACCTACGCTGATCCAGGAGAAGGCCATCCCACTGGCCCTAGAAGGGAAGGACCT
 CCTGGCTCGGGCCCGCACGGGCTCCGGGAAGACGGCCGCTTATGCTATTCGATGCTGCAGCTGTTGCTC
 CATAGGAAGGCGACAGGTCGGTGGTAGAACAGGCAGTGAGAGGCCTTGTCTTGTCTACCAAGGAGC
 TGGCACGGCAAGCACAGTCCATGATTACAGCAGCTGGCTACCTACTGTGCTCGGGATGTCGAGTGGCCAA
 TGTCTCAGCTGCTGAAGACTCAGTCTCTCAGAGAGCTGTGCTGATGGAGAAGCCAGATGTGGTAGTAGGG
 ACCCCATCTCGCATATTAAGCCACTTGCAGCAAGACAGCCTGAACTTCGTGACTCCCTGGAGCTTTTGG
 TGGTGGACGAAGCTGACCTTCTTTTCTTTGGCTTTGAAGAAGAGCTCAAGAGTCTCCTCTGTCACTT
 GCCCGGATTTACCAGGCTTTTCTCATGTGAGCTACTTTAACGAGGACGTACAAGCACTCAAGGAGCTG
 ATATTACATAACCCGGTTACCCTTAAGTTACAGGAGTCCCAGCTGCCTGGCCAGACCAGTTACAGCAGT
 TTCAGGTGGTCTGTGAGACTGAGGAAGCAAAATTCCTCCTGCTGTATGCCTGCTCAAGCTGTCATTGAT
 TCGGGGCAAGTCTCTGCTCTTTGTCAACTCTAGAACGGAGTTACCGGCTACGCCTGTTCTTGGAAACAG
 TTCAGCATCCCCACCTGTGTGCTCAATGGAGAGCTTCCACTGCGCTCCAGGTGCCACATCATCTCACAGT
 TCAACCAAGGCTTCTACGACTGTGTATAGCAACTGATGCTGAAGTCTGGGGGGCCCAAGGGCAA
 GCGTCGGGGCCGAGGGCCAAAGGGGACAAGGCCTCTGATCCGGAAGCAGGTGTGGCCGGGGCATAGAC
 TTCCACCATGTGTCTGCTGTGCTCAACTTTGATCTTCCCCAACCCCTGAGGCCTACATCCATCGAGCTT
 GCAGGACAGCACGCGCTAACAACCCAGGCATAGTCTTAACCTTTGTGCTTCCCACGGAGCAGTCCACTT
 AGGCAAGATTGAGGAGCTTCTCAGTGGAGAGAACAGGGGCCCATTCGTGCTCCCTACCAGTTCCGGATG
 GAGGAGATCGAGGGCTTCCGCTATCGTGCAGGGATGCCATGCGCTCAGTACTAAGCAGGCCATTCGGG
 AGGCAAGATTGAAGGAGATCAAGGAAGAGCTTCTGCATTCTGAGAAGCTTAAGACATACTTTGAAGACAA
 CCCTAGGGACCTCCAGCTGCTGCGGCATGACCTACCTTTGCACCCCGCAGTGGTGAAGCCCCACCTGGGC
 CATGTTCTGACTACCTGGTCTCCTGCTCTCCGTGGCCTGGTACGCCCTCACAAGAAGCGGAAGAAGC
 TGTCTTCTCTTGTAGGAAGCCAAGAGAGCAAAGTCCCAGAACCCTGCGCAGCTTCAAGCACAAAGG
 AAAGAAATTCAGACCCACAGCCAAGCCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201477 representing NM_019082
 Red=Cloning site Green=Tags(s)

MEDSEALGFEHMGDPRLLQAVTDLWGSRPTLIQEKAIPALLEGKDLLARARTGSGKTAAYAIPMLQLLL
 HRKATGPVVEQAVRGLVLPVKELARQAQSMIQQLATYCARDVRVANVSAEDSVSQRAVLMEKPDVVVG
 TPSRILSHLQQDSLKLKRDSELELLVDEADLLFSFGFEEELKSLCHLPRIYQAFILMSATFNEDVQALKEL
 ILHNPVTLKQLQESQLPGPDQLQQFQVVCETEEDKFLLLYALLKLSLIRGKSLFVNTLERSYRLRLFLEQ
 FS IPTCVLNGELPLRSRCHIIISQFNQGFYDCVIA TDAEVLGAPVKGKRRGRGPKGDKASDPEAGVARGID
 FHHVSAVLNFDLPPTPEAYIHRAGRTARANNPGIVLTFVLPTEQFHLGKIEELLSGENRGPILLPYQFRM
 EEIEGFRYRCRDAMRSVTKQAIREARLKEIKEELLHSEKLTIFYEDNPRDLQLLRHDLPLHPAVVKPHLG
 HVPDYL VPPALRGLVRPHKRRKLS SSSCRKAKRAKSQNPLRSFKHKGKFRPTAKPS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_019082

ORF Size: 1641 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

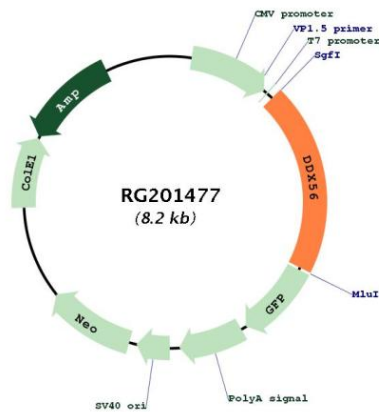
Reconstitution Method:

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_019082.2, NP_061955.1](#)
RefSeq Size: 2499 bp
RefSeq ORF: 1644 bp
Locus ID: 54606
UniProt ID: [Q9NY93](#)
Cytogenetics: 7p13
Domains: DEAD, helicase_C

Gene Summary: This gene encodes a member of the DEAD box protein family. 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. The protein encoded by this gene shows ATPase activity in the presence of polynucleotides and associates with nucleoplasmic 65S preribosomal particles. This gene may be involved in ribosome synthesis, most likely during assembly of the large 60S ribosomal subunit. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2012]

Product images:



Circular map for RG201477