

Product datasheet for **RG232889**

DDX56 (NM_001257189) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX56 (NM_001257189) 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:

>RG232889 representing NM_001257189
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGACTCTGAAGCACTGGGCTTCAACACATGGGCCTCGATCCCCGGCTCCTTCAGGCTGTACCCG
 ATCTGGGCTGGTCGCACCTACGCTGATCCAGGAGAAGGCCATCCCACTGGCCCTAGAAGGGAAGGACCT
 CCTGGCTCGGGCCGCACGGGCTCCGGGAAGACGGCCGCTTATGCTATTCGATGCTGCAGCTGTTGCTC
 CATAGGAAGGCGACAGTCCGGTGGTAGAACAGGCAGTGAGAGGCCTTGTCTTGTCTACCAAGGAGC
 TGGCACGGCAAGCACAGTCCATGATTACAGCAGCTGGCTACCTACTGTGCTCGGGATGCCGAGTGGCCAA
 TGTCTCAGCTGCTGAAGACTCAGTCTCTCAGAGAGCTGTGCTGATGGAGAAGCCAGATGTGGTAGTAGGG
 ACCCCATCTCGCATATTAAGCCACTTGCAGCAAGACAGCCTGAACTTCGTGACTCCCTGGAGCTTTTGG
 TGGTGGACGAAGCTGACCTTCTTTTCTTTGGCTTTGAAGAAGAGCTCAAGAGTCTCCTCTGCACTT
 GCCCGGATTTACCAGGCTTTTCTCATGTGACTACTTTAACGAGGACGTACAAGCACTCAAGGAGCTG
 ATATTACATAACCCGGTTACCCTTAAGTTACAGGAGTCCAGCTGCCTGGCCAGACCAGTTACAGCAGT
 TTCAGTGGTCTGTGAGACTGAGGAAGCAAAATTCCTCCTGCTGTATGCCTGCTCAAGCTGTCATTGAT
 TCGGGGCAAGTCTCTGCTCTTTGTCAACTCTAGAACGGAGTTACCGGCTACGCCTGTTCTTGGACAG
 TTCAGCATCCCCACCTGTGTGCTCAATGGAGAGCTTCCACTGCGCTCCAGGGCCTCTGATCCGGAAGCAG
 GTGTGGCCCGGGCATAGACTTCCACCATGTGTCTGCTGTGCTCAACTTTGATCTCCCCAACCCCTGA
 GGCCTACATCCATCGAGCTGGCAGGACAGCACGGCTAACAAACCAGGCATAGTCTTAACCTTTGTGCTT
 CCCACGGAGCAGTCCACTTAGGCAAGATTGAGGAGCTTCTCAGTGGAGAGAACAGGGGCCCATTTCTGC
 TCCCTACCAGTCCGGATGGAGGAGATCGAGGCTTCCGCTATCGCTGCAGGGATGCCATGCGCTCAGT
 GACTAAGCAGGCCATTCGGGAGGCAAGATTGAAGGAGATCAAGGAAGAGCTTCTGCATTCTGAGAAGCTT
 AAGACATACTTTGAAGACAACCCTAGGGACCTCCAGCTGCTGCGCATGACCTACCTTTGCACCCCGCAG
 TGGTGAAGCCCCACCTGGCCATGTTCTGACTACCTGTTTCTCCTGCTCTCCGTGGCCTGGTGCGCC
 TCACAAGAAGCGGAAGAAGCTGTCTTCTTGTAGGAAGGCCAAGAGAGCAAAGTCCCAGAACCCTACTG
 CGCAGCTTCAAGCACAAGGAAAGAAATTCAGACCCACAGCCAAGCCCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG232889 representing NM_001257189
 Red=Cloning site Green=Tags(s)

MEDSEALGFEHMGLDPRLLQAVTDLWRSRPTLIQEKAIPALLEGKDLLARARTGSGKTAAYAIPMLQLLL
 HRKATGPVVEQAVRGLVLVPTKELARQAQSMIQQLATYCARDVRVANVSAEDSVSQRAVLMEKPDVVVG
 TPSRILSHLQQDSLKLKRDSELLVVDEADLLFSFGFEEELKSLCHLPRIYQAFMSATFNEDVQALKEL
 ILHNPVTLKLQESQLPGPDQLQQFQVVCETEEDKFLLLYALLKLSLIRGKSLFVNTLERSYRLRLFLEQ
 FS IPTCVLNGELPLRSRSDPEAGVARGIDFHVSAVLNFDLPPTPEAYIHRAGRTARANNPGIVLTFVL
 PTEQFHLGKIEELLSGENRGPILLPYQFRMEEIEGFYRCDAMRSVTKQAIREARLKEIKEELLHSEKL
 KTYFEDNPRDLQLLRHDLPLHPAVVKPHLGHVPDYLVPALRGLVRPHKRRKKLSSSCRKAKRAKSQNPL
 RSFKHKGKKFRPTAKPS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001257189

ORF Size: 1521 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_001257189.1](#), [NP_001244118.1](#)

RefSeq Size: 2769 bp

RefSeq ORF: 1524 bp

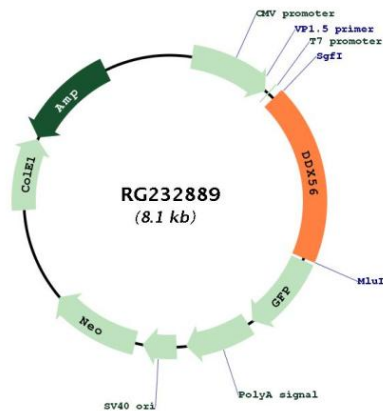
Locus ID: 54606

UniProt ID: [Q9NY93](#)

Cytogenetics: 7p13

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 RG232889