

Product datasheet for **RC232889**

DDX56 (NM_001257189) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX56 (NM_001257189) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDX56
Synonyms:	DDX21; DDX26; NOH61
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC232889 representing NM_001257189
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGACTCTGAAGCACTGGGCTTCAACACATGGGCCTCGATCCCCGGCTCCTTCAGGCTGTACCCG
 ATCTGGGCTGGTCGCGACCTACGCTGATCCAGGAGAAGGCCATCCCACTGGCCCTAGAAGGGAAGGACCT
 CCTGGCTCGGGCCCGCACGGGCTCCGGGAAGACGGCCGCTTATGCTATTCGATGCTGCAGCTGTTGCTC
 CATAGGAAGGCGACAGTCCGGTGGTAGAACAGGCAGTGAGAGGCCTTGTCTTGTCTACCAAGGAGC
 TGGCACGGCAAGCACAGTCCATGATTACAGCAGCTGGCTACCTACTGTGCTCGGGATGCCGAGTGGCCAA
 TGTCTCAGCTGCTGAAGACTCAGTCTCTCAGAGAGCTGTGCTGATGGAGAAGCCAGATGGGTAGTAGGG
 ACCCCATCTCGCATTAAGCCACTTGCAGCAAGACAGCCTGAACTTCGTGACTCCCTGGAGCTTTTGG
 TGGTGGACGAAGCTGACCTTCTTTTCTTTGGCTTTGAAGAAGAGCTCAAGAGTCTCCTCTGTCACTT
 GCCCGGATTTACCAGGCTTTTCTCATGTGAGCTACTTTAACGAGGACGTACAAGCACTCAAGGAGCTG
 ATATTACATAACCCGGTTACCCTTAAGTTACAGGAGTCCCAGCTGCCTGGCCAGACCAGTTACAGCAGT
 TTCAGGTGGTCTGTGAGACTGAGGAAGCAAAATTCCTCCTGCTGTATGCCTGCTCAAGCTGTCATTGAT
 TCGGGGCAAGTCTCTGCTCTTTGTCAACTCTAGAACGGAGTTACCGGCTACGCCTGTTCTTGGAAACAG
 TTCAGCATCCCCACCTGTGTGCTCAATGGAGAGCTTCCACTGCGCTCCAGGGCCTCTGATCCGGAAGCAG
 GTGTGGCCCGGGCATAGACTTCCACCATGTGTCTGCTGTGCTCAACTTTGATCTCCCCAACCCCTGA
 GGCCTACATCCATCGAGCTGGCAGGACAGCACGGCTAACAAACCAGGCATAGTCTTAACCTTTGTGCTT
 CCCACGGAGCAGTCCACTTAGGCAAGATTGAGGAGCTTCTCAGTGGAGAGAACAGGGGCCCCATTCTGC
 TCCCTACCAGTCCGGATGGAGGAGATCGAGGGCTCCGCTATCGCTGCAGGGATGCCATGCGCTCAGT
 GACTAAGCAGGCCATTCGGGAGGCAAGATTGAAGGAGATCAAGGAAGAGCTTCTGCATTCTGAGAAGCTT
 AAGACATACTTTGAAGACAACCCTAGGGACCTCCAGCTGCTGCGCATGACCTACCTTTGCACCCCGCAG
 TGGTGAAGCCCCACCTGGGCCATGTTCTGACTACCTGTTTCTCCTGCTCTCCGTGGCCTGGTGCGCC
 TCACAAGAAGCGGAAGAAGCTGTCTTCTTGTAGGAAGGCCAAGAGAGCAAAGTCCCAGAACCCTACTG
 CGCAGCTTCAAGCACAAGGAAAGAAATTCAGACCCACAGCCAAGCCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232889 representing NM_001257189
 Red=Cloning site Green=Tags(s)

MEDSEALGFEHMGLDPRLLQAVTDLGWSRPTLIQEKAIPALLEGKDLLARARTGSGKTAAYAIPMLQLLL
 HRKATGPVVEQAVRGLVLVPTKELARQAQSMIQQLATYCARDVRVANVSAAEDSVSQRAVLMEKPDVVVG
 TPSRILSHLQQDSLKLKRDSELLVVDEADLLFSFGFEEELKSLCHLPRIYQAFMSATFNEDVQALKEL
 ILHNPVTLKQLQESQLPGPDQLQFQVVCETEEDKFLLLYALLKLSLIRGKSLLFVNTLERSYRLRLFLEQ
 FSIPTCVLNGELPLRSRASDPEAGVARGIDFHHVSAVLNFDLPPTPEAYIHRAGRTARANNPGIVLTFVL
 PTEQFHLGKIEELLSGENRGPILLPYQFRMEEIEGFYRCDAMRSVTKQAIREARLKEIKEELLHSEKL
 KTYFEDNPRDLQLLRHDLPLHPAVVKPHLGHVPDYLVPALRGLVRPHKRRKLSSSCRKAKRAKSQNPL
 RSFKHGKKKFRPTAKPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

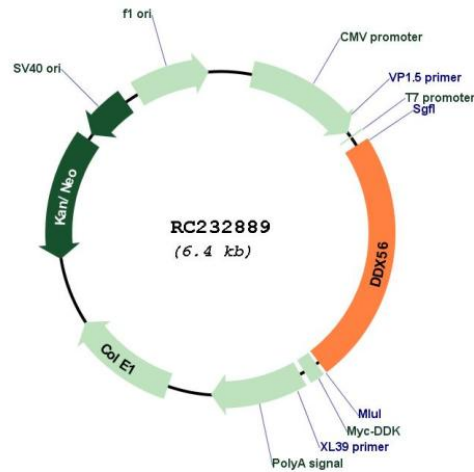
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


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

MW: 57.7 kDa

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]