

Product datasheet for **SC306047**

DDX31 (NM_138620) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX31 (NM_138620) Human Untagged Clone
Tag:	Tag Free
Symbol:	DDX31
Synonyms:	PPP1R25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



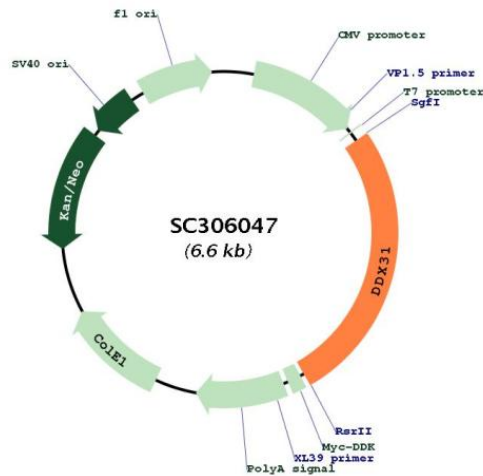
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Fully Sequenced ORF: >SC306047 representing NM_138620.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCCCGGATCTCGCTTCTCAGAGGCATTTCAGAGAGCTTCCCCAGCGTGAACCTCGGCCGAATGTA
ATTTTGCCAGGCCGCGAGGGACGCAGAGAGGGCTGCCACCAGGGGGGCACGCGCGGTAGTCTTGTC
CCTACCCGCCCGGTGCCGCGTCCCGGCTCCCTCGGGACGAGTCCGTACAGCTGGAGCCGTTCCGGA
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AACCCAGGACGTTCTCCAGAGTCCCCAGCCAGGCGAGTCGCAAGCAAAGGCTACGAAAAGAAAA
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CAGGAGGTCTGTCTCCACCAGCTGGCGACAAGCTGGACAGCTTTGCAATACCAGAGAGTCTCAAGCAG
CATGTGACTGTGGTTCAGCAAACTGAGGCTTGTCTGCCTAGCGGCCTTCATCTTCAGAAATGCAAG
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TTCCTACAGACCCTGCTGAGCAGCTCAGGGGCGCCGGCATCAGGGCAGTGGCCATCTGCCTCCATGCGA
TTAAAATTCCTACGGCTGCATGGCGCATGGAGCAGGAGAAAGAACAGCAGTGTTCAGGAATTTTCA
CATTCCAGAAGAGGCGTCTTTTGCAGTGA
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-RsrII

Plasmid Map:



ACCN: NM_138620

Insert Size: 1758 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_138620.1](#)

RefSeq Size: 2408 bp

RefSeq ORF: 1758 bp

Locus ID: 64794

UniProt ID: [Q9H8H2](#)

Cytogenetics: 9q34.13

MW: 64.1 kDa

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 DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a member of this family. The function of this member has not been determined. Alternative splicing of this gene generates multiple transcript variants encoding different isoforms.

[provided by RefSeq, Apr 2016]

Transcript Variant: This variant (2) has a shorter and alternate 3' region, as compared to variant 1. Since the first 3 nt of the alternate region is just an in-frame translation stop codon, this variant encodes a C-terminal truncated isoform (2) compared to isoform 1.