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Product datasheet for SC307995

DDX47 (NM_201224) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	DDX47
Synonyms:	E4-DBP; HQ0256; MSTP162; RRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC307995 representing NM_201224.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGCACCCGAGGAACACGATTCTCCGACCGAAGCGTCCCAGCCGATTGTGGAAGAGGAGGAAACT
AAAACATTTAAAGACCTGGGTGTGACAGATGTGTTGTGTGAAGCTTGTGACCAGTTGGGATGGACAAAA
CCCACCAAGATCCAGATTGAAGCTATTCCTTTGGCCTTACAAGGTCGTGATATCATTGGGCTTGCAGAA
ACTGGCTCTGGAAAGACAGGCGCCTTTGCTTTGCCCATTCTAAACGCACTGCTGGAGACCCCGCAGCGT
TTGTTTGCCCTAGTTCTTACCCCGACTCGGGAGCTGGCCTTTCAGATCTCAGAGCAGTTTGAAGCCCTG
GGGTCCTCTATTGGAGTGCAGAGTGCTGTGATTGTAGGTGGAATTGATTCAATGTCTCAATCTTTGGCC
CTTGCAAAAAAACCACATATAATAATAGCAACTCCTGGTCGACTGATTGACCACTTGGAAAATACGAAA
GGTTTCAACTTGAGAGCTCTCAAATACTTGGTCATGGATGAAGCCGACCGAATACTGAATATGGATTTT
GAGACAGAGGTTGACAAGATCCTCAAAGTGATTCCTCGAGATCGGAAAACATTCCTCTTCTCTGCCACC
ATGACCAAGAAGGTTCAAAAACTTCAGCGAGCAGCTCTGAAGAATCCTGTGAAATGTGCCGTTTCCTCT
AAATACCAGACAGTTGAAAAATTACAGCAATATTATATTTTTATTCCCTCTAAATTCAAGAGTAAGCGC
CTAGGATCCCTTAATAAGTTTAAGGCCAAGGCCCGTTCCATTCTTCTAGCAACTGACGTTGCCAGCCGA
GGTTTGGACATACCTCATGTAGATGTGGTTGTCAACTTTGACATTCCTACCCATTCCAAGGATTACATC
CATCGAGTAGGTCGAACAGCTAGAGCTGGGCGCTCCGGAAAGGCTATTACTTTTGTCACACAGTATGAT
GTGGAACTCTTCCAGCGCATAGAACACTTAATTGGGAAGAAACTACCAGGTTTTCCAACACAGGATGAT
GAGGTTATGATGCTGACAGAACGCGTCGCTGAAGCCCAAAGGTTTGCCCGAATGGAGTTAAGGGAGCAT
GGAGAAAAGAAGAAACGCTCGCGAGAGGATGCTGGAGATAATGATGACACAGAGGGTGCTATTGGTGTC
AGGAACAAGGTGGCTGGAGGAAAAATGAAGAAGCGGAAAGGCCGTTAA
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

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ACCN:	NM_201224
Insert Size:	1221 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_201224.1
RefSeq Size:	1689 bp
RefSeq ORF:	1221 bp
Locus ID:	51202
UniProt ID:	Q9H0S4
Cytogenetics:	12p13.1
MW:	45.2 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 can shuttle between the nucleus and the cytoplasm, and has an RNA-independent ATPase activity. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2) lacks an in-frame exon in the coding region, as compared to variant 1. The encoded isoform (2) is thus missing an internal segment, as compared to isoform 1.