

Product datasheet for **RC219725**

DDX27 (NM_017895) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX27 (NM_017895) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DDX27
Synonyms:	dj686N3.1; DRS1; Drs1p; HSPC259; PP3241; RHLP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC219725 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTACTTGCCAAAGACGACGAGGAGGCTGCGAAAAGTTAAGGGCCGGACCGCAGGCTGTGCTCGCTT
 CCGGAAGTGGCTTCTGCGACAACATGCTTGCAGCCTCGCTTAATCGGAACCATAGCGAGGATGACGA
 GGTGCCGGTGGAGCCGAGTCTGACTCCGGGGACGAGGAAGAGGAGGGGCCATTGTGCTGGCAGACGA
 CAAAAAGCTTTGGGAAGAACCAGTGTGATTTCAACCCTGATTTCTGTTTTCACTGAGAAGGAGGGGA
 CGTACGATGGCAGCTGGGCCCTGGCTGATGTCATGAGCCAACTCAAGAAGAAGAGGGCAGCCACTACATT
 AGATGAGAAGATTGAGAAAGTTCGAAAGAAAAGGAAAACAGAGGATAAAGAAGCCAAGTCTGGGAAGTTG
 GAAAAGGAGAAAGAAGCAAGGAAGGCTCTGAACCAAGGAGCAGGAAGACCTTCAAGAGAATGATGAGG
 AAGGCTCAGAAGATGAAGCCTCGGAGACTGACTACTCATCAGCTGATGAGAATCCTCACCAAAGCAGA
 TACTACTCAAAGTAAAGGATCGGAAGAAGAAGAAGAAGAAAGGACAGGAAGCAGGAGGATTTTTTGAAGAT
 GCATCTCAGTACGATGAAAACCTCTCGTTCCAGGACATGAACCTTTCCCGCCTCTTCTGAAGGCCATTA
 CAGCCATGGGCTTCAAGCAGCCACCCCGATCCAGAAGGCGTGCATACCTGTGGGTCTATTGGGGAAGGA
 CATCTGTGCCTGTGCAGCCACTGGGACAGGTAAACTGCCGCCTTTGCCCTGCCTGTTTTGGAGCGTCTG
 ATTTATAAACCCCGCCAGGCTCCAGTCAACCCGCTGCTGGTGCTAGTGCCACCCGAGAGCTGGGCATCC
 AGGTGCACTCTGTACCAGACAGCTGGCCAGTTCTGCAACATCACCACTGCCTGGCTGTGGGCGGCTT
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 ATCGATCACCTCCAACTGCCCTTCTTCCACCTGAGCAGCATCGAGGTGCTCATCTGGACGAGGCTG
 ACAGATGCTGGATGAGTACTTTGAGGAGCAGATGAAGGAGATCATCCGAATGTGTTCCACCACCGCCA
 GACCATGCTCTTCTCGGCCACCATGACAGACGAGGTGAAAGATCTGGCTTCTGTCTCCTGAAGAATCCT
 GTCGGATATTTGTGAACAGCAACACAGATGTGGCTCCCTTCTGCGGCAGGAGTTCATCCGGATCCGGC
 CTAATCGTGAAGGAGACCGGAAGCCATCGTGGCAGCTTTGTTGACGAGGACCTTCACTGACCATGTGAT
 GCTGTTACGCAAACCAAGAAGCAGGCCACCGCATGCACATCCTCCTGGGGCTCATGGGCTGCAGGTG
 GGTGAGCTCCATGGCACTTGTACAGACGCAGCGGCTGGAGGCCCTCCGGCTTTAAGGATGAACAGA
 TTGACATCCTCGTGGCCACTGATGTGGCAGCCGTTGACTTGACATTGAGGGGTCAAACCGTAATCAA
 CTTCACAATGCCTAATACCATCAAACATTATGTCCACCGGTGGGGCGAACAGCACGTGCTGGCAGGGCT
 GGGCGCTCAGTCTCTGTTGGGAGAAGATGAGCGGAAGATGCTGAAGGAGATTGTAAGCTGCCAAGG
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 CAGTTTGAATCCTCAAGGCGCAGATGTTTGTGAACGGCTAGCGAAGAGGAATCGCAGAGCCAAGCGGG
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 ATTTGATGAAGAACTACCAACACAAGCAAGAAGGCCCTGAAACAGTATCGAGCTGGCCCTTCTTTGAA
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 GGAGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219725 protein sequence
Red=Cloning site Green=Tags(s)

MVLAQRRRGCEKLRAGPQAVLASGSGFCNMLADLGLIGTIGEDDEVPVEPESDSGDEEEEGPIVLGRR
QKALGKNRSADFNPDFVFTEKEGTYDGSWALADVMSQLKKKRAATTLDEKIEKVRKKRKTEDKEAKSGKL
EKEKEAKEGSEPKEQEDLQENDEEGSEDEASETDYSSADENILTKADTLKVKDRKKKKKQEGAGGFED
ASQYDENLSFQDMNLSRPLLKAITAMGFKQPTPIQKACIPVGLLGKDICACAATGTGKTAAFALPVLRL
IYKPRQAPVTRVLVLPTRRELGIQVHSVTRQLAQFCNITTC LAVGGLDVKSQEAALRAAPDIL IATPGRL
IDHLHNCP SFHLS SIEVLILDEADRMLDEYFEEQMKEIIRMCSHHRQTMLFSATMTDEVKDLASVSLKNP
VRIFVNSNTDVAPFLRQEFIRIRPNREGDREAIVAALLTRTFTD HVMLFTQTKKQAHRMHILLGLMGLQV
GELHGNLSQTQRLEALRRFKDEQIDILVATDVAARGLDIEGVKTVINFTMPNTIKHYVHRVGR TARAGRA
GRSVSLVGEDERKMLKEIVKAAKAPVKARILPQDVILKFRDKIEKMEKD VYAVLQLEAEEKEMQQSEAI
NTAKRLLLEKGKEAVVQEPERSWFQTK EERKKEKIAKALQEFDLALRGKKRKKFMKDAKKKGEMTAEERS
QFEILKAQMF AERLAKNRRRAKRARAMPEE EEPVRGPAKKQKQKKSVFDEELTNTSKKALKQYRAGPSFE
ERKQLGLPHQRGGNFKSKSRYKRRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6604_a08.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_017895

ORF Size: 2388 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_017895.7](#), [NP_060365.7](#)

RefSeq Size: 2711 bp

RefSeq ORF: 2298 bp

Locus ID: 55661

UniProt ID: [Q96GQ7](#)

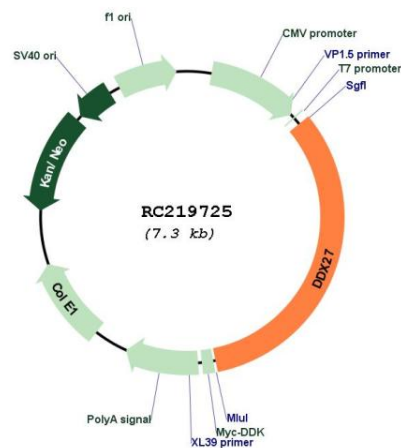
Cytogenetics: 20q13.13

Domains: DEAD, helicase_C

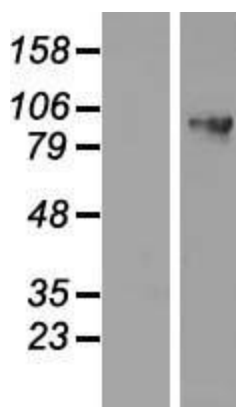
MW: 89.8 kDa

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 family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a DEAD box protein involved in the processing of 5.8S and 28S ribosomal RNAs. More specifically, the encoded protein localizes to the nucleolus, where it interacts with the PeBoW complex to ensure proper 3' end formation of 47S rRNA. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RC219725



Western blot validation of overexpression lysate (Cat# [LY413477]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219725 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).