

Product datasheet for RC211863

RNA Helicase A (DHX9) (NM_001357) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | RNA Helicase A (DHX9) (NM_001357) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | RNA Helicase A |
| Synonyms: | DDX9; LKP; NDH2; NDHII; RHA |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC211863 representing NM_001357 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGACGTTAAAAATTTCTGTATGCCTGGTGTGGCAAAGGAAGATGACCCCATCCTATGAAATTA
GAGCAGTGGGGAACAAAAACAGGCAGAAATTCATGTGTGAGGTTCCAGGTGGAAGTTATAATTACACTGG
CATGGGAAATCCACCAATAAAAAAGATGCACAAAGCAATGCTGCCAGAGACTTTGTAACTATTTGGTT
CGAATAAATGAAATAAAGAGTGAAGAAGTCCAGCTTTTGGGTAGCATCTCCGCCCCACTTACTGATA
CTCCTGACACTACAGCAAATGCTGAAGGAGATTTACCAACAACCATGGGAGGACCTTCTCCTCCACATCT
GGCTCTCAAAGCAGAAAATAATTCTGAGGTAGGGCCTCTGGCTATGGTGTTCCTGGGCCACCTGGGAC
CGAGGAGCCAACCTGAAGGATTACTACTCAAGAAAGGAAGAACAAGAAGTGAAGCGACTCTAGAATCAG
AAGAAGTGGATTTAAATGCTGGGCTTCATGAAACTGGACCTTGGAAAATGCTAAAGCTCGTCTAAACCA
ATATTTTCAGAAAGAAAAGATCCAAGGAGAATATAAGTACACCCAAGTGGGTCCTGATCACAAACAGGAGC
TTTATTGCAGAAATGACCATTTATCAAGCAGCTGGGCAGAAGGATTTTGCACGAGAACATGGATCAA
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AGCTTACTCCGGACTTACAAAGAAGAAGGAAGGAGAGACAGTGGAGCCTTACAAAGTAAACCTCTCTCAA
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GTAGGTGTGCTCCTGAGAAAATTAGAAGCAGGCATTTCGAGGAATCAGTCATGTAATTGTAGATGAAATAC
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TTGGTGGAGGCTATAGAGGATTTCCCGAGGTGGCTTTAGAGGCAACTCTGGAGGAGACTACAGAGGGCC
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TTTGGACAGGGAAGAGGAGGTGGCGGCTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211863 representing NM_001357
 Red=Cloning site Green=Tags(s)

MGDVKNFLYAWCGKRKMTPSYEIRAVGNKNRQKFMCEVQVEGYNYTGMGNSTNKKDAQSNAARDFVNYLV
 RINEIKSEEVPAGVASPPPLTDPDPTTANAEGDLPTTMGGPLPHLALKAENNSEVGASGYGVPGPTWD
 RGANLKDYYSRKEEQEVQATLESEEVDLNAGLHGNWTLNNAKARLNQYFQKEKIQGEYKYTVGPDHNRS
 FIAEMTIYIKQLGRRIFAREHGSNKLAQAQSCALSLVRQLYHLGVVEAYSGLTKKKEGETVEPYKVNLSQ
 DLEHQLQNI IQELNLEILPPPEDPSVPVALNIGKLAQFEPSSQRQNVGVVPWSPQSNWNWPWTSSNIDEG
 PLAFATPEQISMDLKNELMYQLEQDHLQAILQERELLPVKFFESEILEAISQNSVVIIRGATGCGKTTQ
 VPQFILDFFIQNDRAAECNIVVTQPRRISAVSVAERVAFERGEEPGKSCGYSVRFESILPRPHASIMFCT
 VGVLLRKLEAGIRGISHVIVDEIHERDINTDFLLVLRDVVQAYPEVRIVLMSATIDTSMFCEYFFNCPI
 IEVYGRTPVQYFLEDCIQMTHFVPPPKDKKKDKDDGGEDDANCNLICGDEYGPETRLSMSQLNEK
 ETPFELIEALLKYIETLNVPGAVLVFLPGWNLITYTMQKHLEMPHFGSHRYQILPLHSQIPREEQRKVF
 PVPVGVTKVILSTNIAETSITINDVVYVIDSCKQKVKLFTAHNMTNYATVWASKTNLEQRKGRGRVVP
 GFCFHLCSRARFERLETHMTPMFRTPLHEIALSIKLLRLGGIGQFLAKAIEPPPLDAVIEAHTLRELD
 ALDANDELTPGLRILAKLPIEPFRGKMMIMGCIFYVGDICTIAAATCFPEPFINEGKRLGIHRNFAGN
 RFDSDHVALLSVFQAWDDARMGGEAEIRFCEHKRLNMATLRMTWEAKVQLKEILINSGFPEDCLLTQVFT
 NTGPDNNLDVVISLLAFGVYPNVCYHKEKRKILTTEGRNALIHKSSVNCPPSSQDMKYSPFFVFGKIR
 TRAISAKGMTLVPLQLLLFASKKVQSDGQIVLVDDWIKLQISHEAAACITGLRAAMEALVVEVTKQPAI
 ISQLDPVNERMLNMIHQISRPSAAGINLMIGSTRYGDGPRPPKMARYDNGSGYRRGGSSYSGGGYGGGYS
 SGGYGGGYGGSANSFRAGYGAGVGGYRGVSRGGFRGNSGGDYRGPSSGYRSGGFQRGGGRGAYGTGY
 FGQGRGGGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8119_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

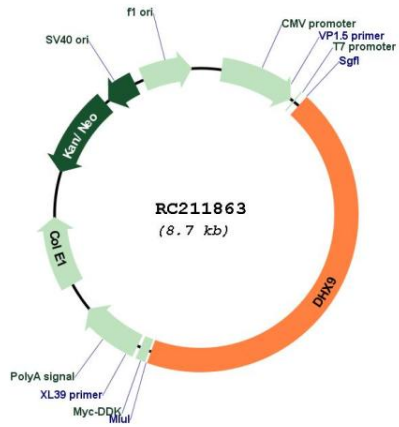


ACCN: NM_001357

ORF Size: 3810 bp

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| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| 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: | <ol style="list-style-type: none"> 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_001357.4 , NP_001348.2 |
| RefSeq Size: | 4543 bp |
| RefSeq ORF: | 3813 bp |
| Locus ID: | 1660 |
| UniProt ID: | Q08211 |
| Cytogenetics: | 1q25.3 |
| Domains: | DSRM, DEAD, helicase_C, HA2 |
| MW: | 141.4 kDa |
| Gene Summary: | <p>This gene encodes a member of the DEAH-containing family of RNA helicases. The encoded protein is an enzyme that catalyzes the ATP-dependent unwinding of double-stranded RNA and DNA-RNA complexes. This protein localizes to both the nucleus and the cytoplasm and functions as a transcriptional regulator. This protein may also be involved in the expression and nuclear export of retroviral RNAs. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 11 and 13.[provided by RefSeq, Feb 2010]</p> |

Product images:



Circular map for RC211863