

Product datasheet for **RC226234**

DDX54 (NM_001111322) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | DDX54 (NM_001111322) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | DDX54 |
| Synonyms: | DP97 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC226234 representing NM_001111322
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCCGACAAGGGCCGGCGGCTGGACCTCGGTTCGCGAGCTGCCATGGCCAGTGGAGGAAGAAGA
 AAGGGCTCCGGAAGCGCCGAGGGCGGCCCTCCAGGCCCGCGGCAGCGACTCGGAGGACGGCGAGTTTGA
 GATCCAGGCGGAAGATGACGCCCGGCCGGAAGCTGGGACCTGGAAGACCCCTGCCACCTTCCCACC
 TCGGAATGCACCTCGGATGTGGAGCCGGACACCCGGGAGATGGTGCCTGCCAGAACAAGAAGAAGA
 AGTCTGGAGGCTTCCAGTCCATGGGCTGAGCTACCCGGTGTTCAAAGGCATCATGAAGAAGGGGTACAA
 GGTGCCAACACCCATCCAGAGGAAGACCATCCCGGTGATCTTGGATGGCAAGGACGTGGTGGCCATGGCC
 CGGACGGGCAGTGGCAAGACAGCCTGCTTCTCTCCCAATGTTTCGAGCGGCTCAAGACCCACAGTGCC
 AGACGGGGCCCGCCCTCATCTCTCGCCGACCCGAGAGCTGGCCCTGCAGACCTGAAGTTCACTAA
 GGAGCTAGGCAAGTTCAGTGGCCTCAAGACTGCCCTGATCTGGGTGGAGACAGGATGGAAGACCAGTTT
 GCAGCCCTGCACGAAAATCCCGACATAATTATTGCCACGCCCGGACGGTTGGTGCATGTGGCTGTGGAAA
 TGAGCCTGAAGCTGCAGAGTGTGGAATACGTGGTGTTCGATGAAGCTGACCGGCTTTTTGAAATGGGTTT
 CGCAGAGCAGCTGCAGGAGATCATCGCCCGCTCCCGGGGGCCACCAGACGGTGTCTTCCGCCACG
 CTGCCCAAAGTGTGGTGAATTTGCCCGGCTGGCCTCACGGAGCCCGTGTCTATCCGGCTTGACGTGG
 ATACCAAGCTCAACGAGCAGCTGAAGACCTCTTCTTCTCGTGCGGGAGGACACCAAGGCTGCCGTGCT
 GCTCCACCTGTGCACAACGTGGTGCGGCCCCAGGACCAGACCGTGGTGTGGTGGCCACGAAGCACCAC
 GCCGAGTACCTCACTGAGCTGCTGACGACCCAGCGGGTGAAGTGCAGCCACATCTACAGTGCCTAGACC
 CGACAGCCCGAAGATCAATCTCGCAAATTCACGCTTGGCAAGTGTCCACTCTATTGACTGACCT
 GGCCGCCCCGAGGCTGGACATCCCGCTGCTGGACAATGTCACTCAACTACAGCTTCCCGCCAAGGGCAAA
 CTCTTCTGCACCGCTGGGCCGTGGCTCGGGCTGGCCGAAGTGGCACAGCCTACTCCTTGGTGGCCC
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 CAAGGAGCCCTCAGGTGTGGCCGTGTGGATGGCATGCTGGGTCCGGTGCACAGAGTGTGGTGGACGAG
 GAGGACAGTGGTCTGCAGAGCACCTGGAGGCATCGCTGGAGCTACGGGGCTGGCCCGGTTGCTGATA
 ACGCCCAGCAGCAGTATGTGCGCTCACGCCGGCGCCCTCGCTGAGTCCATCAAGAGGGCAAGGAGAT
 GGACCTTGTGGGCTGGCCTGCACCCCTCTTCACTCGCGTTTGGAGGAGGAGCTGCAGCGGCTG
 AGGCTGGTGGACAGCATAAAGAAGTACCGCTCCCGGGCGACTATCTTTGAGATCAACGCCTCCAGCCGAG
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 CGAGGGGCCCGCAGCAGCTCAAGTGGGACCGTAAGAAGAAGCGGTTTGTGGGACAGTCAAGGACAGGAA
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 AGCGAAGAGGTGGGAAGCGAGACCGTGGCCAAGCAGGTGCATCCCGGCCACGCCCAGGCACCCCTGC
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 AGGGCGCCTTCGGCCGGGTGCCGCTCCAAGAAGGGCAAGATGCGGAAGAGGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226234 representing NM_001111322
 Red=Cloning site Green=Tags(s)

MAADKGPAAAGPRRAAMAQWRKKKGLRKRRGAASQARGSDSEDFEIEQAEDDARARKLGPGRPLPTFPT
 SECTSDVEPDTRVMVRAQNKKKKSGGFQSMGLSYPVFKGIMKKGYKVPPTPIQRKTIPVILDGKDVVAMA
 RTGSGKTACFLLPMPFERLKTHTSAQTGARALILSPTRELALQTLKFTKELGKFTGLKTALILGGDRMEDQF
 AALHENPDIIIATPGRLVHVAVEMSLKLSVEYVVFDEADRLFEMGFAEQLQEIIARLPGGHQTVLFSAT
 LPKLLVEFARAGLTPVLIIRLDVDTKLNELKTSFFLVREDTKAAVLLHLLHNVVRPQDQTVVVFVATKHH
 AEYLTELLTTQRVSCAHIYSALDPTARKINLAKFTLGKSTLIVTDLAARGLDIPLLDNVINYSFPAKGG
 LFLHRVGRVARAGRSGTAYSLVAPDEIPYLLDLHLFLGRSLTLARPLKEPSGVAGVDGMLGRVPQSVVDE
 EDSGLQSTLEASLELRGLARVADNAQQQYVRSRPAPSPESIKRAKEMDLVGLGLHPLFSSRFEEEEELQRL
 RLVDSIKNYRSRATIFEINASSRDLCSQVMRAKRQKDRKAIARFQQGQGRQEQQEGPVGPA SRPALQE
 KQPEKEEEEEAGESVEDIFSEVGRKRQRSGPNRGAKRRREEARQDQEFYIPYRPKDFD SERGLSISGE
 GGAFEQQAAAGAVLDLMGDEAQNLTRGRQQLKWRKKKRFVQSGQEDKKKIKTESGRYISSYKRDLYQK
 WKQKQKIDDRSDEEGASDRRGPERRGGKRDGRQAGASRPHPAGTPAGVRPELKTQQILKQRRRAQKL
 HFLQRGGLKQLSARNRRRVQELQQGAFGRGARSKKGKMRKRM

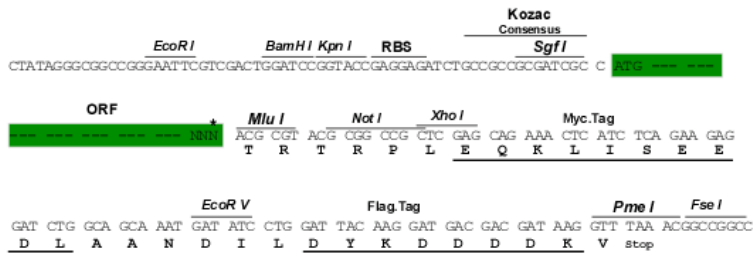
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8034_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

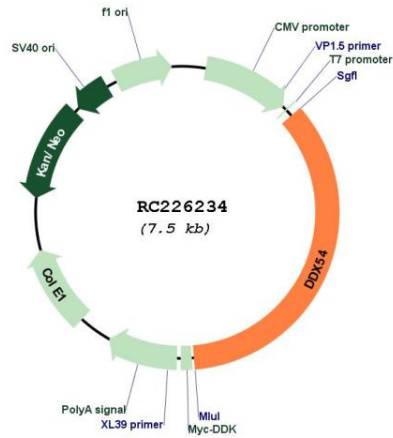
Cloning sites used for ORF Shuttling:



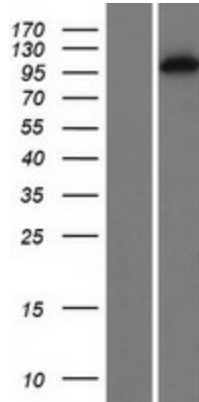
* The last codon before the Stop codon of the ORF

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|-------------------------------|--|
| ACCN: | NM_001111322 |
| ORF Size: | 2646 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: | <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_001111322.2 |
| RefSeq ORF: | 2649 bp |
| Locus ID: | 79039 |
| UniProt ID: | Q8TDD1 |
| Cytogenetics: | 12q24.13 |
| Protein Families: | Druggable Genome, Transcription Factors |
| MW: | 98.5 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 nucleolar protein encoded by this gene interacts in a hormone-dependent manner with nuclear receptors, and represses their transcriptional activity. Alternative splice variants that encode different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] |

Product images:



Circular map for RC226234



Western blot validation of overexpression lysate (Cat# [LY426366]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226234 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).