

Product datasheet for **MR226501**

Ddx6 (NM_007841) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddx6 (NM_007841) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ddx6
Synonyms:	1110001P04Rik; E230023J21Rik; HLR2; mRCK/P54; p54; rck
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226501 representing NM_007841
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCACGGCCAGAACAGAGAACCCTGTTATCATGGGTCTGTCCAGTCAGAACGGCCAGCTGAGGGGCC
 CTGTGAAGGCCAGTGCTGGCCCTGGAGGAGGGGCACACAGCCACAGCCAGCTGAACCAGTTGAAGAA
 CACCAGCACAATCAATAATGGCACTCCACAGCAAGCCAGAGCATGGCCGCCACTATTAACCTGGTGAT
 GACTGGAAAAAGACATTAATACTCCCTCCAAGGATCTAAGAATCAAACTTCGGATGTGACCTCCACAA
 AAGGAAATGAGTTTGAAGATTACTGTTTAAACGAGAGTTGCTAATGGGAATTTTGAATGGGCTGGGA
 AAAACCATCTCTATCCAGGAGGAGAGCATTCCCATTGCTTTATCTGGTAGGGATATCTTAGCTAGAGCA
 AAAAATGGAACAGGCAAAAGCGGTGCCTACCTCATCCCCTTACTTGAAAGGCTGGACCTGAAGAAGGACA
 ATATTCAAGCAATGGTGATTGTTCCCACTAGAGAATTGCTCTACAGGTCAGTCAGATTTGCATCCAGGT
 CAGCAAAACATGGGAGGGGCCAAAGTGATGGCAACCACCGAGGAACCAATTTACGAGATGACATAATG
 AGGCTTGATGATACAGTGATGTGGTATCGCTACCCCTGGCAGGATCCTGGATCTCATCAAGAAAGGCG
 TGGCAAAGGTTGACCATGTCCAGATGATAGTGCTAGATGAGGCAGATAAATTGTTGTCACAGGATTTTGT
 GCAGATAATGGAGGATATTATTCTCACACTACCTAAAAATAGGCAGATTTTACTATATCCGCTACTTTC
 CCTCTTAGTGACAAAAGTTTATGAATCCCATCTGCAAAAACCTACGAGATAAACCTGATGGAGGAAC
 TAACTCTGAAAGGAGTAACTCAGTACTACGCATATGTAACGGAGCGCCAAAAAGTGCCTGCCTCAATAC
 ACTTTTCTCCAGGCTTCCAGATAAACAGTCCATCATTTTCTGCAACTCCTCCCAGAGAGTCGAGCTACTC
 GCCAAGAAGATTTCTCAGCTGGGCTACTTGTCTTTTATCCATGCTAAAATGAGGCAGGAACATCGAA
 ATCGTGTCTTTTCATGATTTCCGAAATGGCTTATGCCGCAATCTGTTTGCAGTCTGTTTACCCGAGG
 TATTGATATAACAAGCTGTGAATGTGTAATAAACTTTGACTTCCCAAAGCTGGCAGAGACCTATCTTCAT
 CGTATTGGAAGATCAGGTCGCTTGGTTCATCTGGCTTAGCCATCAACTGATCACTTATGATGATCGCT
 TCAACCTGAAGAGTATTGAGGAGCAGCTGGGGACAGAGATCAAACCCATCCCAAGCAACATCGACAAGAG
 CCTGTATGTGGCAGAATACCACAGTGAGCCTGCAGAAGACGAGAAACCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226501 representing NM_007841
 Red=Cloning site Green=Tags(s)

MSTARTENPVIMGLSSQNGQLRGPVKASAGPGGGTQPQPQLNQLKNTSTINNGTPQQAQSMATIKPGD
 DWKKTLLKLPKDLRIKTSVDTSTKGNFEDYCLKRELLMGIFEMGWKPSPIQEESIPIALSGRDILARA
 KNGTGKSGAYLIPLLERLDLKKDNIQAMVIVPTRELALQVSQICIQVSKHMGGAKVMATTGGTNLRDDIM
 RLDDTVHVVIATPGRILDLIKGVAKVDHVQMIVLDEADKLLSQDFVQIMEDIILTLPKNRQILLYSATF
 PLSVQKFMNSHLQKPYEINLMEELTLKGVTQYYAYVTERQKVHCLNTLFSRLQINQSIIFCNSSQRVELL
 AKKISQLGYSCFYIHAKMRQEHRNRVFDHFRNGLCRNLVCTDLFTRGIDIQAVNVVINFDFPKLAETYLH
 RIGRSRFGHLGLAINLITYDDRFNLKSEEQLGTEIKPISNIDKSLYVAEYHSEPAEDEKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_007841

ORF Size: 1449 bp

OTI Disclaimer: 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.

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.

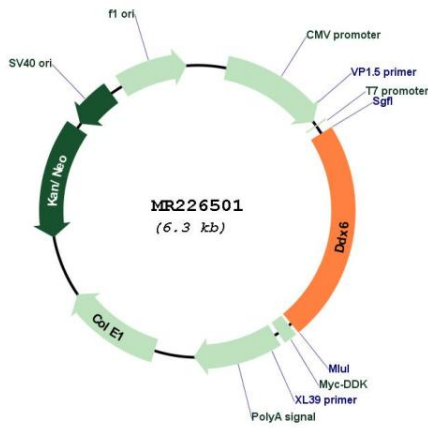
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_007841.2](#)
RefSeq Size: 6008 bp
RefSeq ORF: 1452 bp
Locus ID: 13209
UniProt ID: [P54823](#)
Cytogenetics: 9 24.84 cM
MW: 54.6 kDa

Gene Summary: In the process of mRNA degradation, plays a role in mRNA decapping (By similarity). Blocks autophagy in nutrient-rich conditions by repressing the expression of ATG-related genes through degradation of their transcripts (PubMed:26098573).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226501