

Product datasheet for **MR230143**

Ddx6 (NM_181324) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddx6 (NM_181324) 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:

>MR230143 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCACGGCCAGAACAGAGAACCCTGTTATCATGGGTCTGTCCAGTCAGAACGGCCAGCTGAGGGGCC
 CTGTGAAGGCCAGTGCTGGCCCTGGAGGAGGGGCACACAGCCACAGCCAGCTGAACCAGTTGAAGAA
 CACCAGCACAATCAATAATGGCACTCCACAGCAAGCCAGAGCATGGCCGCCACTATTAACCTGGTGAT
 GACTGGAAAAAGACATTAATACTCCCTCCAAGGATCTAAGAATCAAACTTCGGATGTGACCTCCACAA
 AAGGAAATGAGTTTGAAGATTACTGTTTAAACGAGAGTTGCTAATGGGAATTTTGAATGGGCTGGGA
 AAAACCATCTCTATCCAGGAGGAGAGCATTCCCATTGCTTTATCTGGTAGGGATATCTTAGCTAGAGCA
 AAAAATGGAACAGGCAAAAGCGGTGCCTACCTCATCCCCTTACTTGAAAGGCTGGACCTGAAGAAGGACA
 ATATCAAGCAATGGTGATTGTTCCCACTAGAGAATTGCTCTACAGGTCAGTCAGATTTGCATCCAGGT
 CAGCAAAACATGGGAGGGGCCAAAGTGATGGCAACCACCGAGGAACCAATTTACGAGATGACATAATG
 AGGCTTGATGATACAGTGATGGTGATCGCTACCCCTGGCAGGATCCTGGATCTCATCAAGAAAGGCG
 TGGCAAAGGTTGACCATGTCCAGATGATAGTGCTAGATGAGGCAGATAAATTGTTGTACAGGATTTTGT
 GCAGATAATGGAGGATATTATTCTCACACTACCTAAAAATAGGCAGATTTTACTATACTCCGCTACTTTC
 CCTTTAGTGACAAAAGTTTATGAATCCCATCTGCAAAAACCTACGAGATAAACCTGATGGAGGAAC
 TAACTCTGAAAGGAGTAACTCAGTACTACGCATATGTAACGGAGCGCCAAAAAGTGCCTGCCTCAATAC
 ACTTTTCTCCAGGCTTCCAGATAAACCAGTCCATCATTTTCTGCAACTCCTCCCAGAGAGTCGAGCTACTC
 GCCAAGAAGATTTCTCAGCTGGGCTACTTGTCTTTTATCCATGCTAAAATGAGGCAGGAACATCGAA
 ATCGTGTCTTTTCATGATTTCCGAATGGCTTATGCCGCAATCTGTTTGCAGTCTGTTTACCCGAGG
 TATTGATATACAAGCTGTGAATGTGTAATAAACTTTGACTTCCCAAAGCTGGCAGAGACCTATCTTCAT
 CGTATTGGAAGATCAGGTCGCTTGGTTCATCTGGCTTAGCCATCAACTGATCACTTATGATGATCGCT
 TCAACCTGAAGAGTATTGAGGAGCAGCTGGGGACAGAGATCAAACCCATCCCAAGCAACATCGACAAGAG
 CCTGTATGTGGCAGAATACCACAGTGAGCCTGCAGAAGACGAGAAACCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230143 protein sequence
 Red=Cloning site Green=Tags(s)

MSTARTENPVIMGLSSQNGQLRGPVKASAGPGGGGTQPQPQLNQLKNTSTINNGTPQQAQSMATIKPGD
 DWKKTLLKPPKDLRIKTSVDTSTKGNFEDYCLKRELLMGIFEMGWKPSPIQEESIPIALSGRDILARA
 KNGTGKSGAYLIPLLERLDLKKDNIQAMVIVPTRELALQVSQICIQVSKHMGGAKVMATTGGTNLRDDIM
 RLDDTVHVVIATPGRILDLIKGVAKVDHVQMIVLDEADKLLSQDFVQIMEDIILTLPKNRQILLYSATF
 PLSVQKFMNSHLQKPYEINLMEELTLKGVTQYYAYVTERQKVHCLNLTFSRLQINQSIIFCNSSQRVELL
 AKKISQLGYSCFYIHAKMRQEHRNRVHDFRNLCRNLVCTDLFTRGIDIQAVNVVINFDFPKLAETYLH
 RIGRSRFGHLGLAINLITYDDRFLNLSIEEQLGTEIKPISNIDKSLYVAEYHSEPAEDEKP

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_181324

ORF Size: 1449 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_181324.3](#), [NP_851841.2](#)
RefSeq Size: 6033 bp

RefSeq ORF: 1452 bp

Locus ID: 13209

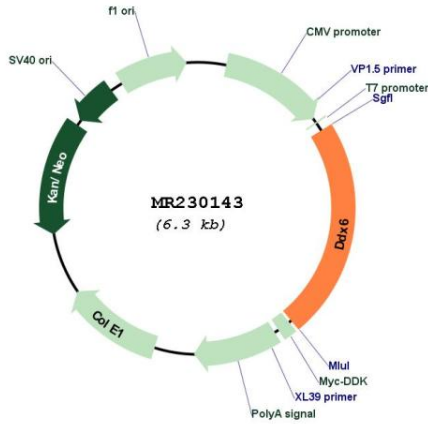
UniProt ID: [P54823](#)

Cytogenetics: 9 24.84 cM

MW: 54.2 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 MR230143