

## Product datasheet for MR226506

### Ddx46 (NM\_145975) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ddx46 (NM_145975) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ddx46
Synonyms:	2200005K02Rik; 8430438J23Rik; AI325430; AI957095; mKIAA0801
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR226506 representing NM_145975 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCCGGGAGTCTCGCCACTACCGAAAACGCTCAGCATCTCGAGGTCGTTCTGGAAGTCGATCGAGGA  
GTCGCTCACCCCTCTGACAAAAGAAGCAAACGTGGGGATGACAGACGCTCTCGGAGCAGAGACAGAGACCG  
GAGGAGAGAGAGGTCTCGGAGTAGGGACAAGAGAAGATCTCGGTCAAGGGACAGGAAGCGCCTGAGGCGC  
TCCAGAAGTAGAGAGCGAGACAGAAGCCGAGAGCGGAGAAGATCTCGGAGCAGAGATAGAAGCGCTCAA  
GGAGTCGAAGCCGGGGCAGGCGGTCCCCTCCAGTCTGGCAGCAAAACCAAGAAGACTGAGAACAG  
GTCTAGGTCCAAAGAGAAAGCAGAAGGTGGGGACAGCTCCAAGGAGAAGAAAAGGACAAGGATGACAAG  
GAGGACGAGAAAAGAGAAGGATGCTGGGAACTTTGACCAGAATAAACTGGAAGAAGAAATGAGAAAACGGA  
AAGAAAGAGTTGAAAAATGGCGCGAAGAGCAGCGTAAGAAGGCTATGGAGAACATAGGAGAGCTGAAGAA  
GGAGATTGAGGAGATGAAGCAGGGGAAGAAGTGGAGCTTGGAGGACGACGACGATGATGAAGATGATCCT  
GCCGAGGCTGAGAAGGAAGGACTGAAATGGAGGACGAGGAGCTGGACCCATTAGACGCCTACATGGAAAG  
AAGTGAAGGAAGAGGTAAAAAGTTTAAACATGAGGAGCGTGAAAGGCGGCGCAGGAAATGAGAAGAAGTC  
TGGGCCAACAGTCACAAAAGTTGCTACTGTGGTGACCACCAAGAAAGCAGTAGTAGACCGGATAAGAAG  
AAGGGGAACTCATGGAGAATGACCAGGACGCCATGGAGTATTCCTCAGAGGAGGAGGAAGTTGACCTTC  
AAACGGCCCTCACAGGCTACCAGACAAAACAGAGAAAACCTTCTAGAGCCAGTTGATCATGAAAAAATTGA  
ATATGAGCCATTGAAAAAACTTTTATGTTGAAAGTTCAGAAATTAGCAAAAATGTCTCAAGAAGAGGTG  
AATGTGTTTCGATTGAAATGGAGGGCATTACAGTTAAAGGAAAAGGTTGCCCGAAACCAATTAATCAT  
GGGTCCAGTGTGGAATTTCCATGAAGATACTAAATCCCTCAAAAAGCATGGCTATGAAAAGCCAACACC  
AATCCAAACTCAAGCGATTCTGCTATAATGTCTGGACGAGATTTGATTGGCATTGCCAAGACAGGAAGT  
GGAAAAACCATTGCTTTTCTTTGCCCATGTTAGACACATCATGGATCAGAGGTCATTAGAAGAAGGAG  
AGGGACCAATAGCTGTCATCATGACTCCAACCTCGAGAGCTGGCTTACAATCACTAAAGAATGTAAGAA  
GTTTTCGAAGACCTTGGGACTGAGAGTGGTCTGTGTGATGGAGGACAGGAATCAGCGACGAGATTGCT



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GAGCTGAAAAGAGGTGCTGAAATTATTGTTTGCACACCTGGTCTGAATGATTGACATGTTAGCGGCTAACAGTGGTCCGGTACAAAATCTTGAAGAGTGACATATGTTGTTTTAGATGAAGCAGACAGAATGTTTGACATGGGTTTTGAACACAGGTCATGCGCATTGTGGATAACGTTTCGCTGACCCGACAGACAGTTATGTTTTCAGCCACTTCCCTAGAGCTATGGAGGCTTTGGCCCGCAGGATCCTGAGCAAACCTATTGAAGTGCAGGTTGGAGGCAGGAGTGTGGTTTGTCCGATGTGGAACAGCAGGTGATTGTGATTGAAGAAGAAAAGAAATCTTGAATTTGCTGGAGCTTTTAGGCCATTATCAGGAGTCAGGATCTGTCATTATATTTGTGGATAAGCAGGAAACACGCAGATGGTCTTCTGAAGGACTTGATGAGAGCATCGTACCCTTGCATGCTCTTCCAGGAGGATTGATCAATATGACAGGGACAGTATCATAAATGACTTTAAGAATGGAACCTGCAAGCTCCTCGTTGCCACATCTGTTGCAGCTCGTGGTCTCGATGTGAAACATCTAATTCTTGTAGTGAATTACAGCTGCCCAATCATTATGAAGATTATGTGCACAGAGCTGGGCGGACTGGAAGAGCGGGCAACAAGGGTTATGCCTACACCTTCATCACAGAGGATCAAGCTCGATATGCTGGTGACATCATTAAAGCTCTTGAATTGTGAGGACCGCAGTGCCTCTGACCTAGAAAACTCTGGAGTGACTTCAAAGATCAACAGAAAGCTGAAGGAAAAATAATAAAAAGAGTAGTGGCTTCTCTGGCAAGGGATTCAAGTTTGTGAAACAGAACAGGCTTTAGCCAATGAGAGGAAAAAGCTGCAGAAAAGCTGCTTGGCCTGCAAGATTCTGATGACGAGGATGCTGCAGTTGATATTGATGAACAGATTGAAAGCATGTTAATTTCAAAGAAGAGAGTAAAGGACATGGCTGCACCCGGCACATCCAGCGTGCCCGGCCACTGCAGGCAATGCTGAGAAGCTAGAAATCGCCAAGAGATTGGCTCTCAGAATCAACGCTCAGAAGAACCTGGGCATCGAGTCTCAGGATGTGATGCAGCAGGCCACCAACGCCATCCTCAGAGGTGGCACTATCCTGGCTCCCCTGTGTCTGCGAAAACATTGCAGAGCAGCTTGTGAGAAGATCAATGCCAAGCTCACTACGTGCTTTGGAGAAGCAGGAGGAAGAGAGACAGGAGGGTGGCAGAGCGAGTCTTTCAAGAGATACGAGGAAGAATTAGAAATTAATGACTTCCCACAGACTGCGAGGTGGAAGTCACTCAAAGGAAGCCCTGCAGAGATCAGCGAGTACTCTGAGGCCGCCATCACCATCAGGGGCACCTACTTCCCTCCCGGCAAGGAGCCCAAGGAAGGAGCGCAAGATCTACCTGGCCATCGAAAGTGCCAACGAGCTGGCTGTGCAGAAAAGCAAAGGCAGAGATCACCAAGCTCATAAAAGAGGAAGTATCGACTGCAAAATTCATACCAACCAACCAACAAAGGACGATACAAAAGTATTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226506 representing NM\_145975  
 Red=Cloning site Green=Tags(s)

MGRESRHYRKRASRGRSGRSRSPDKRKRKRDGDRRSRDRDRRRERSRSDKRKRSRDRKRLRRSRSRERDRSRERRRSRDRRRSRSRGRRRSSSPGSKTKKTENRSRKEKAEGDSSKEKKDKDDKEDKEKEDAGNFDQNKLEEMRKRKERVEKWREEQRKAMENIGELKKEIEEMKQKKWSLEDDDDDDDDP AEAKEGTEMEDEELDPLDAYMEEVKKEVKKFNMRSVKGGAGNEKKS GPTVTKVTVVTTKKA VVDADKK KGELMENDQDAMEYSSEEEVDLQTAL TGYQTKQRKLLPVDHGKIEYEPFRKNFYVEVPELAKMSQEEV NVFRLEMEGITVKGKCPKPIKSWVQCGISMKILNSLKKHGYEKPTPIQTQAIPAIMSGRDLIGIAKTGS GKTIAFLLPMFRHIMDQSL EEGEGPIAVIMPTRELALQITKECKKFSKTLGLRVVCVYGGTGI SEQIA ELKRGAEIIVCTPGRMIDMLAANSGRVTNLRVTVYVVLDEADRMFDMGFEPQVMRIVDNVRPDRQTVMFSA TFPRAMEALARRILSKPIEVQVGGRSVVCSDVEQQVIVIEEEKFLKLELLELGHYQESGSVIFV DQKE HADGLLKDLMRASYPMSLHGGIDQYDRDSIINDFKNGTKLLVATSVAARGLDVKHLILV VNYSCPNHY EDYVHRAGRTGRAGNKGYAYTFIT EDQARYAGDIKALEL SGTAVPPDLEKLWSDFKDQQAEGKIIKKS SGFSGKGFKFDETE QALANERKKLQKAALGLQSDDEDAVDIDEQIESMFNSKRVKDMAAPGTSSVPA PTAGNAEKLEIAKRLALRINAQKNL GIESQDVMQQATNAILRGGTILAPT VSAKTIAEQLAEKINAKLNY VPLEKQEEERQEGGQSE SFKRYEELEINDFPQATARWKVTSKEALQRISEYSEAAITIRGTYPFGKEPK EGERKIYLAIESANELAVQKAKAEITRLIKEELIRLQNSYQPTNKGRYKVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9103\\_d10.zip](https://cdn.origene.com/chromatograms/mm9103_d10.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_145975

**ORF Size:** 3093 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\\_145975.3](#), [NP\\_666087.3](#)

**RefSeq Size:** 5673 bp

**RefSeq ORF:** 3096 bp

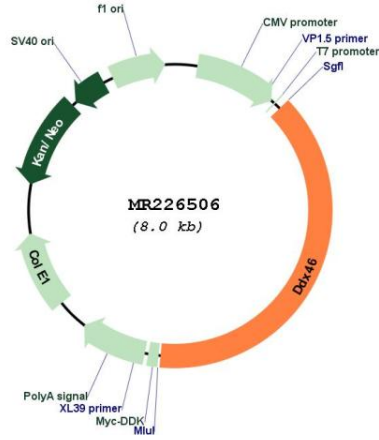
**Locus ID:** 212880

**Cytogenetics:** 13 B1

**MW:** 117.3 kDa

**Gene Summary:** Plays an essential role in splicing, either prior to, or during A complex formation. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR226506