

Product datasheet for **MC222055**

Ddx21 (NM_019553) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Ddx21 (NM_019553) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Ddx21 |
| Synonyms: | AI255159; AL022742; D10Ertd645e; D10Wsu42e |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC22055 representing NM_019553
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGGAAACTCCGCAGTGGGGCCAAGTTGGGCTCAGACGGGGCCGAGGAGAGCATGGAGACGCTGC
 CGAAGCCAAGCGAGAAGAAAAGTAAAGAGAGAAGACAAAATCAAAGACCGAAGAAGCAACAGAAGGAAT
 GGAAGAGGCCGTTTCTCCAAAGCAAAGAAAACAAACAAGAAAGGGCCTTCTGAGGATGATGTGGATCCC
 CCTAAATCCAGGAAGGCCAAGAAGCAGGAGGAGGCCTCAAGACGACTGCTTCTACAAGCAAAACCT
 CCAAGAAGAAAAGGAGCCCTTGAGAAGCAAGCAGACTCTGAAACCAAAGAGATAATAACAGAGGAGCC
 TTCCGAAGAAGAGGCAGACATGCCTAAGCCCAAGAAGATGAAGAAAGGGAAAGAAGCAACCGGAGATGCC
 GGAGAGAAAAGCCCAAGCTGAAGAATGGACTCTCCCAACCTCCGAAGAAGAGGCAGACATTCTAAGC
 CCAAGAAGATGAAGAAAGGGAAAGAAGCAACCGGAGATGCTGGAGAGAAAAGCCCAAGCTGAAGAATGG
 ACTCTCCCAACCTCCGAAGAAGAGGTAGACATTCCTAAGCCCAAGAAGATGAAGAAAGGGAAAGAAGCA
 AGCGGAGATGCGGGAGAGAAAAGCCCAAGCTGAAGGATGGACTCTCCCAACCTTCTGAACCGAAAATCCA
 ACTCCAGTGATGCTCCTGGTGAGGAAAGTAGTAGCGAGACAGAAAAGGAAATACCTGTGGAGCAGAAAGA
 GGGAGCTTTCTCTAATTTCCATTTCTGAAGAGACTGTCAAGCTTCTCAAAGCTCGTGGGGTGAATTC
 CTGTTTCTATAACAAGCCAAGACCTTTCATCATGTGTACAGTGGGAAAGACTTAATTGCCAGGCACGGA
 CAGGAACCGAAAAGACATTTCTTTTGCATCCCTTAATTGAGAAACTCAAGTGGGCTACAAGAGAG
 GAAGAGAGGCCGAGCCCTCAGGTGCTAGTCTTGACCCACAAGAGAATTAGCAATCAAGTGAGCAAA
 GACTTCAGCGACATCACAAAAGCTCTCTGTAGCTTGTATTTATGGTGGAAACCCCTACGGTGGTCAGA
 TTGAACGAATGCGGAGTGGATTGATATCCTGGTTGGGACCCAGTTCGATTAAGAACCTTGCAGAA
 TGGCAAGCTAGATCTACCAAACCTAAACATGTTGTCCTGGATGAAGTCCAGCAGATGTTGGATATGGGT
 TTTGCTGATCAAGTGAAGAAATTTTATGTGTTGCATACAAGAAAGATTCTGAAGACAACCCCAACAT
 TGCTTTTCTCTGCAACTTGCCCTCATTGGGTGTTAATGTTGCTAAGAAATACATGAAATCTACATACGA
 ACAGGTGGACCTGATTGGTAAAAAGACTCAGAAAGCAGCTATAACTGTGGAGCACCTGGCGATTAAGTGT
 CACTGGACAGAAAGGGCAGCGGTGATTGGGGATGTGATCCGAGTGTACAGTGGTCATCAAGGGCGCACGA
 TCATCTTCTGTGAAACCAAGAAGGATGCCAGGAGCTATCTCAGAACACGTGCATAAAGCAGGATGCCCA
 GTCCTTACATGGCGACATTCACAGAAGCAAAGGGAAATCACCTGAAAGGTTTCCGAAATGGCAATTTT
 GGAGTTTTGGTGGCAACCAATGTTGCTGCCGTGGGTTAGACATCCCTGAGGTTGACTTGGTTGTTCAGA
 GCTGCCCAACAAAGGATGTGGAGTCTTACATTCATCGTTCCGGGGCGGACAGGCAGAGCTGGAAGGCAGG
 AGTTTGCATCTGCTTTTACCAGAACAAGAAAGAGTACCAGTTAGCACAAGTGGAGCAGAAAGCGGGAATT
 AAATTTAAACGGATAGGTGTTCTTCTGCAACGGAAATAATAAAGCCTCCAGCAAAGACGCCATCAGGC
 TCTTGGATTCTGTGCCTCCCACTGCCATTAGCCATTTCAAGCAGTCAAGTGAAGAGCTGATTGAGGAGAA
 GGGAGCTGTAGAGGCCTTGGCAGCTGCTCTGGCCACATCTCAGGAGCCACATCAGTCGATCAGCGCTCC
 CTGATCAACTCGCAAGCAGGCTTTGTGACCATGATCCTGCGGTGCTCCATTGAGATGCCCAACATCAGTT
 ACGCTTGGAAAGAACTTAAAGAGCAGCTGGGCGAGAGCATCGATGCCAAAGTGAAGGGAATGGTCTTCT
 CAAAGGAAAAGCTGGGGTTTGTGTTGATGTCGAACTGAAGCAGTCACAGAAATACAGGAGAAGTGGCAT
 GATTCGAGACGCTGGCAGCTCACCGTGGCCACCGAGCAGCCAGAGCTGGAGGGACCTCCAGACGGATATC
 GAGGCCGATGGGTGAGCGTGTGGCAGCCGTGGTCTTTAGAGGACAGCGGGGTGGAAGCAGGAACCT
 CCGGGGACAGGGACAGCGAGGAGGAAGTAGAACTTCCGAGGACAGCGACCAGGAGGTGGCAACAGAGGC
 CAGAAGCGGAGTTTTAGTAAAGCGTTTGGTCAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_019553
Insert Size: 2556 bp

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| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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_019553.2 , NP_062426.2 |
| RefSeq Size: | 4763 bp |
| RefSeq ORF: | 2556 bp |
| Locus ID: | 56200 |
| UniProt ID: | Q9JIK5 |
| Cytogenetics: | 10 32.43 cM |
| Gene Summary: | RNA helicase that acts as a sensor of the transcriptional status of both RNA polymerase (Pol) I and II: promotes ribosomal RNA (rRNA) processing and transcription from polymerase II (Pol II). Binds various RNAs, such as rRNAs, snoRNAs, 7SK and, at lower extent, mRNAs. In the nucleolus, localizes to rDNA locus, where it directly binds rRNAs and snoRNAs, and promotes rRNA transcription, processing and modification. Required for rRNA 2'-O-methylation, possibly by promoting the recruitment of late-acting snoRNAs SNORD56 and SNORD58 with pre-ribosomal complexes. In the nucleoplasm, binds 7SK RNA and is recruited to the promoters of Pol II-transcribed genes: acts by facilitating the release of P-TEFb from inhibitory 7SK snRNP in a manner that is dependent on its helicase activity, thereby promoting transcription of its target genes. Functions as cofactor for JUN-activated transcription: required for phosphorylation of JUN at 'Ser-77'. Can unwind double-stranded RNA (helicase) and can fold or introduce a secondary structure to a single-stranded RNA (foldase). Involved in rRNA processing. May bind to specific miRNA hairpins (By similarity). Component of a multi-helicase-TICAM1 complex that acts as a cytoplasmic sensor of viral double-stranded RNA (dsRNA) and plays a role in the activation of a cascade of antiviral responses including the induction of proinflammatory cytokines via the adapter molecule TICAM1 (PubMed:21703541).[UniProtKB/Swiss-Prot Function] |