

Product datasheet for **MC200694**

Ddx1 (NM_134040) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddx1 (NM_134040) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ddx1
Synonyms:	AA409185; DBP-RB
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC010624 sequence for NM_134040
 CCGCGTGTCTGGAAGGAGGAATCGCCCGGCCCGCAGCGGAGGAGTGCGGGAAGATGGCGGCCTTCTCC
 GAAATGGGTGTTATGCCGGAGATTGCACAAGCTGTGGAGGAGATGGATTGGCTTCTACCAACTGATATCC
 AGGCAGAACTATCCCATTGATCCTAGGAGGAGGGGATGACTCATGGCTGCAGAAAACAGGAAGTGGAAA
 AACTGGTGCATTTAGTATTCCCCTTATCCAGATAGTGTATGAACTCTGAAAGACCAACAGGAAGGAAA
 AAAGGAAAACAACACTATTAACAACTGGTGTCTCAGTGTCAACAAGTGGCAGATGAACCCATATGATAGAG
 GGTCTGCTTTTGCAATTGGATCAGATGGTCTGTGTTGTCAGAGCAGAGAAGTGAAGGAGTGGCATGGATG
 CAGAGGAACTAGAGGACTGCTGAAAGGGAAGCACTACTATGAGGTGCTCTGTCATGACCAAGGGCTATGC
 AGAGTTGGGTGGTCTACCATGCAGGCTTCTTAGACCTAGGTAAGTGTGACAAGTTTGGATTTGGCTTCGGTG
 GAACAGGAAAAGAAATCTCATAATAAACAATTTGATAATTATGGAGAGGAATTCACATGATGATACCAT
 TGGATGTTACTTAGATATCGATAAAGGGCATGTGAAGTCTCTAAGAATGGAAAAGATCTTGGTCTGGCA
 TTTGAAATACCAGCACATATAAAAAACCAAGCCCTCTCCCTGCCTGTGTTTTGAAGAATGCTGAATTGA
 AATTTAACTTTGGTGAAGAAGAATTTAAGTTTCCACAAAAGATGGTTTTGTTGCTTTTCAAGGCCCC
 AGATAATTACATCGTCAAATCTCAGCACACAGGTAATGCACAGGTGTACAAAACAAAATTTCTCCGGAAT
 GCTCCAAAAGCTCTCATTGTGGAACCCCTCCAGAGAGTTAGCTGAGCAAACCTTGAACAACGTCAAGCAGT
 TTAAGAAGTATATTGATAATCCTAAATTGCGGGAGCTTCTCATAATTGGTGGCGTTCGCGCTCGGGATCA
 GCTCTCTGTTCTGGATAATGGGGTTGACATTGTTGTCGGTACTCCAGGAAGATTGGATGATTTGGTGTGCG
 ACTGGAAGCTCAACTTGTCTCAAGTTAGATTCCTGGTCTGGATGAAGCAGATGGGCTTCTCTCAAG
 GCTACTCTGACTTCATTAACCGGATGCACAACCAGATTCGCGAGATTACGTGTGATGGGAAAAGACTTCA
 GGTGATTTGTTGCTCTGCTACTCTGCATTCTTTTGTGTAAGAAGCTATCGGAGAAGATAATGCATTTT
 CCCACATGGGTCGATTTGAAAGGAGAAGATTCTGTTCCAGATACTGTGCATCATGTCGTTGTCCCTGTGA
 ACCCAAACTGACAAGCTTTGGGAAAGGCTGGGAAGAACCACATTCGAACTGATGTACACGCAAA
 GGATAACACAAGACCTGGTGTAAACAGTCCAGAGATGTGGTCTGAAGCTATTAATAACTGAAGGGGGAG
 TATGCTGTCCGAGCAATCAAGGAACACAAGATGGATCAAGCAATTATCTTCTGTAGAACTAAAATTGACT
 GTGATAACTTGGAGCAGTACTTTATGCAGCAAGGAGGAGACCTGACAAAAAAGGACACCAGTTCTCATG
 TGTATGTCTTCATGGTGACAGAAAGCCTCATGAGAGAAAGCAAACTTGGAACGATTTAAGAAAGGAGAC
 GTAAGATTCTTGATTTGCACAGATGTAGCTGCTAGAGGGATTGATATCCATGGCGTTCCTTATGTGATCA
 ACGTCACCCTGCCTGATGAGAAGCAGAATTATGTGCACCGGATCGGCAGAGTGGGACGAGCTGAAAGGAT
 GGGCTGGCTATTTCCCTGGTGGCAACCGAAGAAAAGGTTTTGGTATCATGTATGTAGCAACCGTGGG
 AAGGGATGCTATAACACTAGACTCAAGGAAGATGGCGGCTGACTATCTGGTACAATGAAATGCAGCTAC
 TTTCCGAGATAGAAGAGCACCTGAAGTGCACCATTTCCAGGTCGAGCCAGATATAAAGGTTCCAGTGGG
 TGAGTTTGATGGGAAAGTACATACGGTCAAAAAGGGCTGCTGGCGGTGAAACTACAAAGGCCATGTG
 GATGTCCTGGCACCTACCGTTCAAGAGTTGGCTGCCCTTGAAGGAAGCACAGACCTCTTTCTACACC
 TTGGCTACCTTCCAACAGCTGTTCCGAACCTTCTGACGTCATGTAGACAGAGGAGCATTGGAGTCATA
 AAGTCTGTAGTCTTAACTCTAACCTCTGGTGTGCTCTCTGAGCAGCAGTATTTACAATAACCGAGCTA
 TCACGGCTAACTCTGCATGTCAGGAAACACAGACCTTAGCGATTCTCCATAAAATGGCAGCCCAATGAA
 AATAAACTTGACAACATAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_134040

Insert Size: 2223 bp

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:

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: [BC010624](#), [AAH10624](#)

RefSeq Size: 2488 bp

RefSeq ORF: 2223 bp

Locus ID: 104721

UniProt ID: [Q91VR5](#)

Cytogenetics: 12 A1.1

Gene Summary: Acts as an ATP-dependent RNA helicase, able to unwind both RNA-RNA and RNA-DNA duplexes. Possesses 5' single-stranded RNA overhang nuclease activity. Possesses ATPase activity on various RNA, but not DNA polynucleotides. May play a role in RNA clearance at DNA double-strand breaks (DSBs), thereby facilitating the template-guided repair of transcriptionally active regions of the genome. Together with RELA, acts as a coactivator to enhance NF-kappa-B-mediated transcriptional activation (By similarity). Acts as a positive transcriptional regulator of cyclin CCND2 expression (PubMed:19398953). Binds to the cyclin CCND2 promoter region (PubMed:19398953). Associates with chromatin at the NF-kappa-B promoter region via association with RELA. Binds to poly(A) RNA. May be involved in 3'-end cleavage and polyadenylation of pre-mRNAs. Component of the tRNA-splicing ligase complex required to facilitate the enzymatic turnover of catalytic subunit RTCB: together with archease (ZBTB8OS), acts by facilitating the guanylation of RTCB, a key intermediate step in tRNA ligation (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). Specifically binds (via helicase ATP-binding domain) on both short and long poly(I:C) dsRNA (PubMed:21703541).[UniProtKB/Swiss-Prot Function]