

## Product datasheet for MC206123

### Ddx42 (BC043036) Mouse Untagged Clone

#### Product data:

|                           |                                       |
|---------------------------|---------------------------------------|
| Product Type:             | Expression Plasmids                   |
| Product Name:             | Ddx42 (BC043036) Mouse Untagged Clone |
| Tag:                      | Tag Free                              |
| Symbol:                   | Ddx42                                 |
| Synonyms:                 | RNAHP, RHELP, SF3b125                 |
| Mammalian Cell Selection: | Neomycin                              |
| Vector:                   | PCMV6-Kan/Neo (PCMV6KN)               |
| E. coli Selection:        | Kanamycin (25 ug/mL)                  |

#### Fully Sequenced ORF:

>BC043036  
GCATCATGAACACTGGAATAAAGGCGGCCCTGGAACCAAGCGGGGATTTGGTTTTGGAGTTTTGCTATCAG  
TGCTGGGAAGAAGGAGGAAGCCAACTGCCACAGCAGTCCCATAGTGCCTTTGGGCAGCCAGCTTCTCT  
TCTGGATTTGAAAGTCTGCTCCACCACAGCTTCTTTCTTCTACAAAATTGGATCTAAACGGGCCAACT  
TTGATGAAGAAAATGCGTATTTTGAAGATGAAGAAGAAGACTCCAGCAATGTAGATTTACCTTACATTCC  
TGCTGAAAACCTACCTACCCGCCAGCAGTTCATTCCAAGCCCGCAGACTCTGACAGTGATGATGACCCC  
TTAGAGGCATTTCATGGCTGAAGTGGAGGATCAGGCTGCTAGAGACATGAAGAGACTTGAAGAAAAGGACA  
AGGAAAGAAAAACGTC AAGGTATTCGAGATGACATTGAAGAGGAAGATGACCAAGAAGCTTATTTTCG  
ATACATGGCAGAGAACCAACTGCTGGGGTGGTT CAGGAGGAAGAAGAGGACAATTTGGAGTATGACAGT  
GATGGAATCCAATTGCACCTTCAAAAAAATTCGATCCCCTCCTCCATTGATCATTCCGAGATTG  
ACTATCCACCATTTGAAAAAATTTTTACAATGAACATGAGGAGATAACCAACCTCACTCCACAGCAGTT  
GATAGACCTGCGACATAAGCTCAACCTTCGGGTCTCTGGTCTGCACCTCCAGACCAGGAAGTAGCTTT  
GCTCATTTTGGGTTTGATGAACAACTTATGCACCAGATTAGGAAATCTGAGTACACACAGCCGACCCAA  
TACAGTGT CAGGGTGTACCTGTAGCACTAAGTGGGAGAGACATGATTGGTATTGCTAAAACAGGCAGTGG  
GAAAACCTGCAGCCTTTATTTGGCCCATGTTGATTCATATAATGGATCAGAAGGAATTGGAACCAGGTGAT  
GGACCAATTGCAGTTATTTGTGTCTACTAGGGAGCTTTGTCAACAGATCCACGCAGAGTGAAGCGGT  
TTGGGAAAGCGTATAATCTTCGATCAGTGGCCGTGATGGAGGAGGGAGCATGTGGGAGCAGGCCAAGGC  
CCTTCAGGAAGGGGCAGAGATTGTTGTATGTACCCAGGTCGACTGATTGATCATGTGAAGAAAAAGCT  
ACTAATCTTCAAAGAGTCTTACCTTGTGTTGATGAAGCCGATCGAATGTTTGACATGGGATTTGAGT  
ATCAGGTTTCGGTCCATAGCAAGTCATGTTTCGTCCTGACAGACAAACTCTTATTTCAGTGC AACTTTTCG  
AAAGAAGATTGAAAAGTTGGCCAGAGACATCTTGATTGACCTATTTCAGTGGTGCAGGGAGACATTGGA  
GAGGCGAATGAAGATGTGACACAGATTGTGGGATTCTCCATTCCGGACCCAGTAAATGGAACCTGGCTGA  
CTCGGCGTCTGGTGGAGTTTACTTCTCGGGGAGTGTGCTCTTGTGTTGTTACTAAGAAAGCCAATGCTGA  
AGAGCTAGCCAGTAACCTGAAGCAGGAGGGTCATAATCTTGGTCTGCTCCATGGGACATGGATCAGAGC  
GAAAGAAAACAAGTTATTTTCAGATTTTAAAGAAAAGGACATCCCCGTCCTGGTGGCCACTGATGTTGCAG  
CCCGTGGTCTGGATTTCTTCCATTAAGACAGTCATTAATATGATGTAGCACGGGACATTGATACGCA  
CACTCACAGGATTGGCCGACAGGAAGAGCTGGTGAAGGGTGTAGCCTATACCTTATTGACTCCAAG



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GACAGCAATTTTCTGGTACCTTGTACGGAACCTGGAAGGAGCCAACCAACATGTTTCTAAGGAGCTCT  
 TAGATCTTGCAATGCAGAATGCCTGGTTTCGGAAATCTCGCTTCAAAGGAGGGAAAGGCAAAAAGCTGAA  
 CATTGGTGGAGGAGGCTTGGGCTATAGAGAGCGGCCTGGGCTGGGCTCTGAGAATTCGGACCGAGGAAAT  
 AATAACAATGTAATGAGCAATTAGAGGCTACAAGCCCTCCACAGGAGCCATGGGAGATAGGCTCACAG  
 CAATGAAAGCAGCTTTTTCAGTCCCAGTACAAGAGTCACTTTGTTGCAGCCAGTTTAAAGTAATCAGAAGGC  
 CGGAACCTCTTCTGCAGGGGCAAGTGGATGGACTAGTGCAGGAAGCTTAAATTCTGTTCCAATAATTCA  
 GCACAGCAGGGCCATAATAGTCTGACAACCCCATGACCAGTTCTACCAAGAACATCCCAGGCTTCAACA  
 ACTCTGGGAATATCAGTAGTGCCCCAGTGACCTACCCTTCTATTGGAGCCCAAGGAGTCAACAACACAGC  
 TTCAGGGAATAACAGCCGTGAAGGGATTGGGGTGGCAATGGGAAGAGAGAGATATACTGAGAACCGG  
 GGTGGTAGCCGCATAGCCATGGAGATGGTGGCAATCGGCATGGAGATGGTGGGCGCCATGGAGATGGAT  
 ACCGTTATCCAGAAAGTGGTAGCCGTCATACTGATGGCCACCGACATGGAGAGACCAGGCATGGAGGAAG  
 TGCCGGCAGACACGGAGAGAGCCGGGTGCAAATGATGGCAGGAATGGAGAAAGCAGGAAAGAAGTTTT  
 AATCGTAAAACAAGATGGACCCCAAGGTGGATAGCAGCAGGATGGACAAAGTGGACAGCAAGACAGATA  
 AGACACCTGATGGCTTTGCTGTTCCAGAGCCACCCAAAAGAAAAGAAAAGCCGATGGGATAGTTAGAGGGT  
 ATGTGAAAATCAGCGTCGTTAGTCGCTTTAATTTTATTTTATAGAAAGATTTTGGTAATGAGGCGTCTCA  
 GGCTGGGTTGGGTCCAAGATATACAGACCCCTGCCCTTGGTGGAGAACTGGAGAGTGGATTGTACCT  
 TCATCTGGTGTTCAATCAGAGGTTTCTTGGGAACCTGAGCTGGCCCTGGAAAGCAGAGAGCTGGGAAGC  
 TTTTGTGTTGTTGGGTGAGTTTTAAGGAGGTAAGTAGAATACTTAGGGAGAAAGGGCCTTTTAGGGCA  
 CAAAACTCACTTAGGTTTATAATAGCTTATATTTTTTACTAAAATGTCACCTTATAAATCTATAAA  
 TTGGACTTTTTTCTTAGCTGTGGCCAGGCAGTCCCAACTTCTGCCCTGTAGGGATGCTTGGGGAGCAG  
 TGGTGCTTTCAGATGTTGCAGGGAAGATGCCTGAGCGCTCAGGTTCCCCAGACTGTTCCAGCCCTGAG  
 ACACGTAGGAAAGACAGCCTTCCAGACACAGGCTTTGAAATCCTAAGCCATTAGGACTGAAGGAATGATC  
 ATCTTGGAAAGGATCCAGGATAATCCAGGCCTGGAGTACTGCTAAATTTACCATTTAAAACCAACCCCAA  
 CAGTAGCATTCAAAGTGTCTATTTGTTTTGTTTTTAACTTGCCTAATAGTAGAAAAAAGTC  
 TTCTGCTGAAATGATTTTATTGTTTCTATCTGTTTATAAAAGAAAATATACAACTTTGAAAAA AAAAAAAAAA

- Restriction Sites:** Ascl-NotI
- ACCN:** BC043036
- Insert Size:** 2433 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:** [BC043036](#), [AAH43036](#)
- RefSeq Size:** 3582 bp
- RefSeq ORF:** 2433 bp

Locus ID: 72047

Cytogenetics: 11 E1

**Gene Summary:** ATP-dependent RNA helicase. Binds to partially double-stranded RNAs (dsRNAs) in order to unwind RNA secondary structures. Unwinding is promoted in the presence of single-strand binding proteins. Mediates also RNA duplex formation thereby displacing the single-strand RNA binding protein. ATP and ADP modulate its activity: ATP binding and hydrolysis by DDX42 triggers RNA strand separation, whereas the ADP-bound form of the protein triggers annealing of complementary RNA strands. Involved in the survival of cells by interacting with TP53BP2 and thereby counteracting the apoptosis-stimulating activity of TP53BP2. Relocalizes TP53BP2 to the cytoplasm (By similarity).[UniProtKB/Swiss-Prot Function]