

Product datasheet for **MR210774**

Ddx42 (NM_028074) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ddx42 (NM_028074) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ddx42
Synonyms:	1810047H21Rik; AW319508; AW556242; B430002H05Rik; RHELP; RNAHP; SF3b125
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210774 representing NM_028074
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGTGAATAAAGGCGGCCCTGGAACCAAGCGGGATTTGGTTTTGGAGTTTTGCTATCAGTGCTG
 GGAAGAAGGAGGAAGCCAACTGCCACAGCAGTCCCATAGTGCCTTTGGGCAGCCAGCTTCTCTGG
 ATTTGGAAAGTCTGCTCCACCACAGCTTCTTCTTCTACAAAATTGGATCTAAACGGGCCAACTTTGAT
 GAAGAAAATGCGTATTTTGAAGATGAAGAAGAAGACTCCAGCAATGTAGATTTACCTTACATTCCTGCTG
 AAAACTCACCTACCCGCCAGCAGTTCCATTCCAAGCCCGCAGACTCTGACAGTGTATGACCCCTTAGA
 GGCATTTCATGGCTGAAGTGGAGGATCAGGCTGCTAGAGACATGAAGAGACTTGAAGAAAAGGACAAGGAA
 AGAAAAACGTC AAGGTATTTCGAGATGACATTGAAGAGGAAGATGACCAAGAAGCTTATTTTCGATACA
 TGGCAGAGAACCAACTGCTGGGTGGTTCAGGAGGAAGAAGAGGACAATTTGGAGTATGACAGTGTATGG
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 CCACCATTGAAAAAATTTTTACAATGAACATGAGGAGATAACCAACCTCACTCCACAGCAGTTGATAG
 ACCTGCGACATAAGCTCAACCTTCGGGTCTCTGGTGTGCACCTCCCAGACCAGGAAGTAGCTTTGCTCA
 TTTTGGGTTTGTATGAACAACTTATGCACCAGATTAGGAAATCTGAGTACACACAGCCGACCCCAATACAG
 TGTGAGGTTGACCTGTAGCACTAAGTGGGAGAGACATGATTGGTATTGCTAAAACAGGCAGTGGGAAAA
 CTGCAGCCTTTATTTGGCCCATGTTGATTCATATAATGGATCAGAAGGAATTGGAACCAGGTGATGGACC
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 AAAGCGTATAATCTTCGATCAGTGGCCGTGTATGGAGGAGGAGCATGTGGGAGCAGGCCAAGGCCCTTC
 AGGAAGGGGCAGAGATTGTTGTATGATACCCAGTCTGACTGATGATCATGTGAAGAAAAAGCTACTAA
 TCTTCAAAGAGTCTTACCTTGTGTTTGTATGAAGCCGATCGAATGTTTGACATGGGATTTGAGTATCAG
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 CGTCTGGTGGAGTTTACTTCTCGGGGAGTGTCTCTTGTGTTTACTAAGAAAGCCAATGCTGAAGAGC
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 AAACAAGTTATTTTCAGATTTTAAAGAAAAAGGACATCCCGTCTGGTGGCCACTGATGTTGCAGCCCGT
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 CAATTTTGTGGTACCTTGTACGGAACCTGGAAGGAGCCAACCAACATGTTTCTAAGGACTCTTAGAT
 CTTGCAATGCAGAATGCCTGGTTTCGGAATCTCGCTTCAAAGGAGGGAAAGGCAAAAAGCTGAACATTG
 GTGGAGGAGGCTTGGGCTATAGAGAGCGGCTGGGCTGGGCTCTGAGAATTCGGACCGAGGAAATAATAA
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 CCTTTCTGCAGGGCAAGTGGATGGACTAGTGCAGGAAGCTTAAATCTGTTCCAATAATTTCAGCACA
 GCAGGGCCATAATAGTCTGACAACCCATGACCAGTTCTACCAAGAACATCCCAGGCTTCAACAACCTCT
 GGAATATCAGTAGTGCCTGACCCAGTGACCTACCCTTCTATTGGAGCCCAAGGAGTCAACAACACAGCTTCA
 GGAATAACAGCCGTGAAGGGATTGGGGTGGCAATGGGAAGAGAGAGATATACTGAGAACCGGGTGG
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 TGAAAACAAGATGGACCCCAAGGTGGATAGCAGCAGGATGGACAAAGTGGACAGCAAGACAGATAAGACA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >MR210774 representing NM_028074
 Red=Cloning site Green=Tags(s)

MNWNKGGPGTKRFGFGGFAISAGKKEEAKLPQQSHSAFGAASSSSGFGKSAPPQLPSFYKIGSKRANFD
 EENAYFEDEEEDSSNDLPIPAENSPTRQOFHSPADSDSDDDPLEAFMAEVEDQAARDMKRLEEKDKE
 RKNVKGIRDDIEEEDDQEAYFRYMAENPTAGVVQEEEEEDNLEYSDGNPIAPSKIIDPLPIDHSEIDY
 PPFEKNFYNEHEEITNLTPQQLIDLRHKLNLRVSGAAPPRPGSSFAHFGFDEQLMHQIRKSEYTQPTPIQ
 CQGVPVALSGRDMIGIAKTGSGKTAAFIWPLIHIIMDQKELEPGDGPIAVIVCPTRQLCQQIHAECKRFG
 KAYNLRSVAVYGGGSMWEQAKALQEGAEIVVCTPGRLIDHVKKKATNLQRVSYLVFDEADRMFDMGFEYQ
 VRSIASHVRPDRQTLFSATFRKKIEKLARDILIDPIRVVQGDIGEANEDVTQIVEILHSGPSKWNWLTR
 RLVEFTSSGSVLLFVTKKANAEEELASNLKQEGHNLGLLHGMDQSERNKVISDFKDKDIPVLVATDVAAR
 GLDIPSIKTVINYDVARIDTHTHRIGRTGRAGEKGVAYTLLTPKDSNFAAGDLVRNLEGANQHVSKEKLLD
 LAMQNAWFRKSRFKGGKGLNIIGGGGLGYRERPLGSENDRGNMNNVMSNYEAYKPSTGAMGDRLTAM
 KAAFQSQYKSHFVAASLSNQKAGTSSAGASGWTSSAGLSNVPTNSAQQGHNSPDNPMTSSTKNIPGFNNS
 GNISSAPVTYPSIGAQQVNNTASGNNSREGIGGGNGKRERYTENRGGSRHSHGDGGRHGDGRRHGDGYR
 YPESGSRHTDGHHRHGETRHGGSAGRHGESRGANDGRNGESRKEGFNRENKMDPKVDSRMDKVDSKTDKT
 PDGFAVPEPPKRKKSrwds

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9047_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



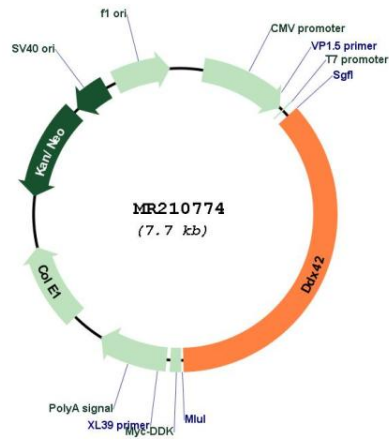
* The last codon before the Stop codon of the ORF

ACCN: NM_028074

ORF Size: 2787 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:	<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_028074.4 , NP_082350.3
RefSeq Size:	4028 bp
RefSeq ORF:	2790 bp
Locus ID:	72047
UniProt ID:	Q810A7
Cytogenetics:	11 E1
MW:	102.4 kDa
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]

Product images:



Circular map for MR210774