

Product datasheet for **RG209448**

DDX47 (NM_016355) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DDX47 (NM_016355) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DDX47
Synonyms:	E4-DBP; HQ0256; MSTP162; RRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209448 representing NM_016355
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCACCCGAGGAACAGATTCTCCGACCGAAGCGTCCAGCCGATTGTGGAAGAGGAGGAACTA
 AAACATTTAAAGACCTGGGTGTGACAGATGTGTTGTGAAGCTTGTGACCAGTTGGGATGGACAAAACC
 CACCAAGATCCAGATTGAAGCTATTCCTTTGGCCTTACAAGGTCGTGATATCATTGGGCTTGCAAAAAC
 GGCTCTGGAAGACAGGCGCCTTTGCTTTGCCATTCTAAACGCACTGCTGGAGACCCCGCAGCGTTTGT
 TTGCCCTAGTTCTTACCCCGACTCGGGAGCTGGCCTTTCAGATCTCAGAGCAGTTTGAAGCCCTGGGGTC
 CTCTATTGGAGTGCAGAGTGTGTGATTGTAGGTGGAATTGATTCAATGTCTCAATCTTTGGCCCTTGCA
 AAAAAACCATATAATAATAGCAACTCCTGGTCGACTGATTGACCACTTGAAAAATACGAAAGTTTCA
 ACTTGAGAGCTCTCAAACTTTGGTCATGGATGAAGCCGACCGAATACTGAATATGGATTTTGAGACAGA
 GGTGACAAGATCCTCAAAGTATTCTCGAGATCGGAAAACATTCCTCTCTGCCACCATGACCAAG
 AAGGTTCAAAAATTCAGCGAGCAGCTCTGAAGAATCCTGTGAAATGTGCCGTTTCTCTAAATACCAGA
 CAGTTGAAAAATTACAGCAATATTATATTTTATTCCTCTAAATTCAAGGATACCTACCTGGTTTATAT
 TCTAAATGAATTGGCTGGAACTCCTTTATGATATTCTGCAGCACCTGTAATAATACCCAGAGAACAGCT
 TTGCTACTGCGAAATCTTGGCTTCACTGCCATCCCCCTCCATGGACAAATGAGTCAGAGTAAGCGCCTAG
 GATCCCTTAATAAGTTTAAAGCCAAGGCCCGTTCCATTCTTAGCAACTGACGTTGCCAGCCGAGGTTT
 GGACATACCTCATGTAGATGTGGTTGTCAACTTTGACATTCCTACCCATTCCAAGGATTACATCCATCGA
 GTAGGTGCAACAGCTAGAGCTGGGCGCTCCGAAAAGGCTATTACTTTTGTACACAGTATGATGTGGAAC
 TCTTCCAGCGCATAGAACACTTAATTGGGAAGAACTACCAGGTTTCCAACACAGGATGATGAGGTTAT
 GATGCTGACAGAACGCGTCGCTGAAGCCAAAGGTTTGCCCGAATGGAGTTAAGGGAGCATGGAGAAAAAG
 AAGAAACGCTCGCGAGAGGATGCTGGAGATAATGATGACACAGAGGGTGCTATTGGTGTCAGGAACAAGG
 TGGCTGGAGGAAAAATGAAGAAGCGGAAAGGCCGT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209448 representing NM_016355
 Red=Cloning site Green=Tags(s)

MAPEEHDSPTASQPIVEEEETKTFKDLGVTDVLCACDQLGWTKPTKIQIEAIPALQGRDIIGLAET
 GSGKTGAFALPILNALLETPQRLFALVLTPTRELAFQISEQFEALGSSIGVQSAVIVGGIDSMSQSLALA
 KKPHIIATPGRLIDHLENTKGFNLRAKYLVMDEADRILNMDFETEVDKILKVIPRDRKTLFSATMTK
 KVQKLQRAALKNPVKCAVSSKYQTVEKLQYYIFIPSKFKDTYLVYILNELAGNSFMIFCSTCNNTQRTA
 LLLRNLGFTAIPLHGQMSQSKRLGSLNFKAKARSILLATDVASRGLDIPHDVVDVNFDPHTSKDYIHR
 VGR TARAGRSKAITFVTQYDVLEFQRIEHLIGKKLPGFPTQDDEVMLTERVAEAQRFA RMELREHGEK
 KKRSREDAGDNDDEGAIGVRNKVAGGKMKRKRGR

SGPTRRRLE - GFP Tag - V

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN: NM_016355

ORF Size: 1365 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016355.4](#)

RefSeq Size: 1836 bp

RefSeq ORF: 1368 bp

Locus ID: 51202

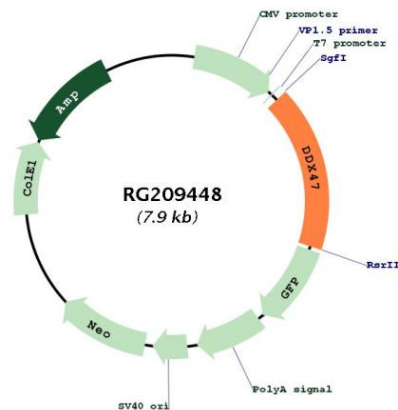
UniProt ID: [Q9H0S4](#)

Cytogenetics: 12p13.1

Domains: DEAD, helicase_C

Gene Summary: This gene encodes a member of the DEAD box protein family. DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure, such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. The protein encoded by this gene can shuttle between the nucleus and the cytoplasm, and has an RNA-independent ATPase activity. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209448