

Product datasheet for **RG214123**

DDX47 (NM_201224) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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)

ORF Nucleotide Sequence: >RG214123 representing NM_201224
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCACCCGAGGAACACGATTCTCCGACCGAAGCGTCCCAGCCGATTGTGGAAGAGGAGGAACTA
AAACATTTAAAGACCTGGGTGTGACAGATGTGTGTGTGAAGCTTGTGACCAGTTGGGATGGACAAAACC
CACCAAGATCCAGATTGAAGCTATTCCTTTGGCCTTACAAGGTCGTGATATCATTGGGCTTGCAGAACT
GGCTCTGGAAAGACAGGCGCCTTTGCTTTGCCATTCTAAACGCACTGCTGGAGACCCGCGAGCTTTGT
TTGCCCTAGTTCTTACCCGACTCGGGAGCTGGCCTTTCAGATCTCAGAGCAGTTTGAAGCCCTGGGGTC
CTCTATTGGAGTGACAGTGCTGTGATTGTAGGTGGAATTGATTCAATGTCTCAATCTTTGGCCCTTGCA
AAAAAACCATATAATAATAGCAACTCCTGGTCGACTGATTGACCACTTGAAAAATACGAAAGTTTCA
ACTTGAGAGCTCTCAAATACTTGGTCATGGATGAAGCCGACCGAATACTGAATATGGATTTTGAGACAGA
GGTTGACAAGATCCTCAAAGTGATTCTCGAGATCGGAAAACATTCTCTCTGCCACCATGACCAAG
AAGGTTCAAAAACCTTCAGCGAGCAGCTCTGAAGAATCCTGTGAAATGTGCCGTTTCTCTAAATACCAGA
CAGTTGAAAAATTACAGCAATATTATTTTTATTCCCTCTAAATCAAGAGTAAGCGCCTAGGATCCCT
TAATAAGTTTAAGGCCAAGGCCGTTCCATTCTCTAGCAACTGACGTTGCCAGCCGAGGTTTGGACATA
CCTCATGTAGATGTGTTGTCAACTTTGACATTCTACCCATTCCAAGGATTACATCCATCGAGTAGGTC
GAACAGCTAGAGCTGGGCGCTCCGAAAGGCTATTACTTTGTACACAGTATGATGTGGAAGTCTTCCA
GCGCATAGAACACTTAATTGGGAAGAACTACCAGTTTTCCAACACAGGATGATGAGGTTATGATGCTG
ACAGAACGCGTCGCTGAAGCCCAAAGGTTTGGCCGAATGGAGTTAAGGGAGCATGGAGAAAAGAAGAAAC
GCTCGGAGAGGATGCTGGAGATAATGATGACACAGAGGTGCTATTGGTGTCAGGAACAAGGTGGCTGG
AGGAAAAATGAAGAAGCGGAAAGGCCGT

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



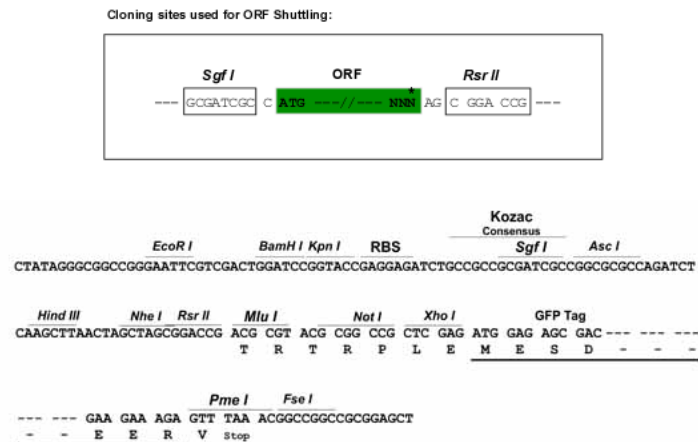
Protein Sequence: >RG214123 representing NM_201224
Red=Cloning site Green=Tags(s)

MAAPEEHDSPTASQPIVEEEEETKTKDLGVTDVLCACDQLGWTPTKIQIEAIPALQGRDIIGLAET
GSGKTGAFALPILNALLETPQRLFALVLTPTRELAFQISEQFEALGSSIGVQSAVIVGGIDSMSQSLALA
KKPHIIATPGRLIDHLENTKGFNLRAKYLVMDEADRILNMDFETEVDKILKVIPRDRKTFLSATMTK
KVQKLQRAALKNPVKCAVSSKYQTVKLLQYYIFIPSKFKSKRLGSLNKFKAARSILLATDVASRGDI
PHVDVVVNFDPHSDYIHRVGRARAGRSKAITFVTQYDVLFQRIEHLIGKKLPGFPTQDDEVML
TERVAEAQRFAARMELREHGEKKRSREDAGDNDDEGAIGVRNKVAGGKMKRKRGR

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_201224

ORF Size: 1218 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_201224.2](#)

RefSeq Size: 1689 bp

RefSeq ORF: 1221 bp

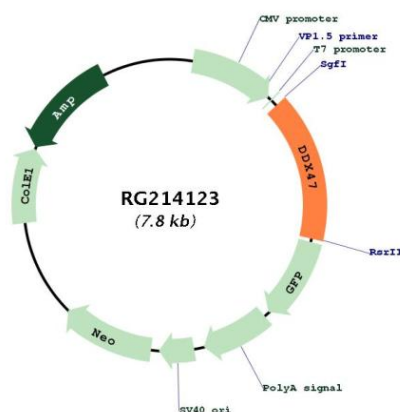
Locus ID: 51202

UniProt ID: [Q9H0S4](#)

Cytogenetics: 12p13.1

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 RG214123