

Product datasheet for **RG228627**

DHX16 (NM_001164239) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHX16 (NM_001164239) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DHX16
Synonyms:	DBP2; DDX16; NMOAS; PRO2014; Prp2; PRP8; PRPF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228627 representing NM_001164239
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGAAGATCCTAGAGTCCCAAGGTACCACGAAAGGCAGTGGTAGAAAAGCCAGCTCGGGCAGCAG
 AGCGAGAGGCCCGGCCCTGCTGGAGAAGAACCGATCTTATAGGTTACTGGAAGACAGTGAAGAGAGCAG
 TGAGGAGACTGTGAGTAGGGCTGGAAGCAGCCTCCAGAAGAAACGTAAAAAGCGGAAACACCTCAGGAAG
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 AAGAGTTCATGAGACAGTACTGGAGATTGAGAGCAGTTGGCTTCTGGAGGTGGCTCCCCATTATTATAA
 GGCCAAGGAGCTAGAAGATCCCCATGCTAAGAAAATGCCCAAAAAATAGGCAAAACACGAGAAGAGCTA
 GGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228627 representing NM_001164239
 Red=Cloning site Green=Tags(s)

MSEDPRGPKVPRKAVVEKPARAAEREARALLEKNRSYRLLEDSEESSEETVSRAGSSLQKKRKRKHLRK
 KREEEEEEEASEKGKKKTGGSKQTEKPESEDEWERTERERLQDLEERDAFAERVQRDKDRTRNVLERS
 DKKAYEEAQKRLKMAEEDRKAMPPELRKKSRRREYLAKREREKLEDEAELEADEEFLFGDVELSRHERQEL
 KYKRRVRDLAREYRAAGEQEKL EATNRYHMPKETRGQPARAVDLVEEESGAPGEEQRRWEEARLGAASLK
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 GNVVLLKSLGIHDLMHDFLDPPPYETLLLALEQLYALGALNHLGELTTSGRKMAELPVDPMLSKMILA
 SEKYSCEEILTVAAMLVNNISIFYRPDKVHADNARVNFLLPGGDHLVLLNVYTQWAESGYSSQWCYE
 NFWQFRSMRRARDVREQLEGLLERVEVGLSSCQGDYIRVRKAITAGYFYHTARLTRSGYRTVKQQQTVFI
 HPNSSLFEQQPRWLLYHELVLTTKEFMRQVLEIESSWLLVAPHYKAKELEDPHAKKMPKKIGKTREEL
 G

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

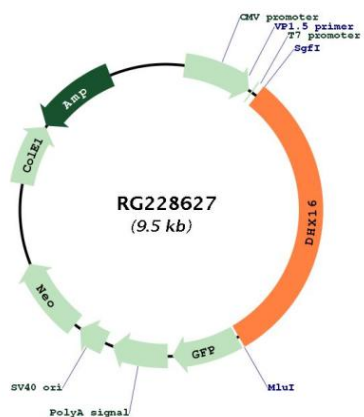


ACCN: NM_001164239

ORF Size: 2943 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_001164239.1 , NP_001157711.1
RefSeq Size:	3156 bp
RefSeq ORF:	2946 bp
Locus ID:	8449
UniProt ID:	O60231
Cytogenetics:	6p21.33
Protein Pathways:	Spliceosome
Gene Summary:	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. This gene encodes a DEAD box protein, which is a functional homolog of fission yeast Prp8 protein involved in cell cycle progression. This gene is mapped to the MHC region on chromosome 6p21.3, a region where many malignant, genetic and autoimmune disease genes are linked. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2018]

Product images:



Circular map for RG228627