

## Product datasheet for **RG209736**

### **DHX32 (NM\_018180) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DHX32 (NM_018180) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DHX32
Synonyms:	DDX32; DHLP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209736 representing NM\_018180  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAAGAAGAAGGGCTGGAGTGTCCAACTCTTCTCTGAAAAACGCTATTTCTGAATCCCTGGATT  
 CCAGCGATGGGGATGAGGAAGAGTTTTGGCCTGTGAGGATTTGGAACCTAACCCCTTTGATGGATTGCC  
 ATATTCATCACGTTATTATAAACTTCTGAAAGAAAGAGAAGATCTTCTATATGGAAGAAAAATACTCC  
 TTTATGGAGAACCTGCTTCAAAATCAAATCGTGATTGTTTCAGGAGATGCTAAATGTGGTAAAGAGCGCTC  
 AGGTTCTCAGTGGTGTGCTGAATATTGTCTTCCATCCACTACCAGCACGGGGCGTGATATGCACACA  
 GGTCCACAAGCAGACTGTGGTCCAGCTCGCCCTGCGGGTGGCGGATGAAATGGATGTTAACATTGGTCAT  
 GAGTTGGCTACGTGATCCCTTCGAGAAGTGTACCAACGAAACAATCCTGAGGTATTGACTGATG  
 ATATGCTGCAAAGAGAAATGATGTCCAATCCTTTTTGGGTAGCTATGGGGTCATCATCTTAGATGATAT  
 TCATGAAAGAAGCATTGCAACTGATGTGTTACTTGGACTTCTTAAAGATGTTTTACTAGCAAGACCAGAA  
 CTGAAGCTCATAATTAATCCTCACCTCACCTGATCAGCAAACCTCAATCTTATTATGAAACGTGCCTG  
 TCATAGAAGTAAAAATAAACACCTGTGGAGTTGTGTACCTTAGTGAGGCTCAAAAGGATTCTTTTGA  
 GTCTATTTACGCCTTATCTTTGAAATTCACCACTCGGGTGAAGAGGTGACATTGTAGTCTTTCTGGCC  
 TGTGAACAAGATATTGAGAAAGTCTGTGAAACTGTCTATCAAGGATCTAACCTAACCCAGATCTTGGAG  
 AACTGGTGGTTGTTCTTTGTATCCAAAAGAGAAATGTTCAATTGTTCAAGCCACTCGATGAAACAGAAAA  
 AAGATGCCAAGTTTATCAAAGAAGAGTGGTGTAACTACTAGCTCTGGAGAGTTTTGATCTGGAGCAAC  
 TCAGTCAGATTTGTTATCGATGTGGGTGTGAAAGAAGAAAGGTGTACAACCCGAGAATAAGAGCAAAC  
 CGCTCGTCATGCAGCCCATCAGCCAGAGCCAGGACAGATACGCAAGCAGATTCTTGGTCATCTTCTTC  
 AGGAAAAATTTTTCTGCCTGTACACTGAAGAATTTGCCTCAAAGACATGACGCCACTGAAGCCAGCAGAA  
 ATGCAGGAAGCCAACCTAACAAGCATGGTGCTTTTTATGAAGAGGATAGACATTGCGGGCTAGGCCACT  
 GTGACTTCATGAACAGACCAGCACCAGAAAGTTTGTGAGGATGGAAGACTTAGATTATCTGGCAGC  
 ACTGGATAATGATGGAATCTTTCTGAATTTGGAATCATCATGTCAGAGTTTCTCTTGTCCACAACCTC  
 TCGAAGTCTATCTTAGCGTCTGTGAATTTGACTGTGTAGATGAAGTGCTAACAATCGCGGCCATGGTAA  
 CAGCTCCAAATGCTTTTACATGTGCCACATGGAGCTGAAGAGGCTGCCTTACTTGTGGAAGACATT  
 TTTACATCCCGAAGGAGATCACTTACCCTCATCAGCATTACAAGGCTTACCAAGACACAACCTGTAAT  
 TCTAGCAGTGAGTACTGTGTGAAAAGTGGTGTCTGATTACTTCTCAACTGTTTCAAGCAGTCTGAAATGG  
 CAGATGTTATTCGAGCTGAACTCTAGAAATTATCAAGCGAATCGAGCTTCCCTATGCAGAACCTGCTTT  
 TGGCTCCAAGGAAAACACTCTAAACATAAAGAAAGCTTCTGTCCGGTACTTTATGCAGATTGCTCGG  
 GATGTTGATGGATCAGGTAACCTAATGCTGACACATAAGCAGGTTGCTCAGCTGCATCCCCTGTCTG  
 GTTACTCAATCACCAAGAAGATGCCAGAGTGGTCCTCTTCCATAAATTCAGCATTTCTGAGAACAACCTA  
 CATCAGGATTACCTCAGAAATCTCTCTGAACTATTTATGCAGCTGGTACCACAATACTATTTTCAAGTAA  
 CTGCTCCTAGTAAAAGTAAGGACATTCTACAGCAAGTAGTGGATCACCTATCCCCTGTGTCAACAATGA  
 ATAAGGAACAGCAAATGTGTGAGACGTGCCCTGAAACTGAACAGAGATGCACTCTCCAG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG209736 representing NM\_018180  
 Red=Cloning site Green=Tags(s)

MEEEGLECPNSSSEKRYFPESLDSSDGDEEEVLACEDLELNPFDGLPYSSRYKLLKEREDLPIWKEKYS  
 FMENLLQNQIVIVSGDAKCGKSAQVPQWCAEYCLSIHYQHGGVICTQVHKQTVVQLALRVADEMDVNIGH  
 EVGYVIPFENCCTNETILRYCTDDMLQREMMSNPFLGSYGVIILDDIHERSIATDVLLGLLKDVLLARPE  
 LKLIINSSPHLISKLNSYGNVPVIEVKNKHPVEVVYLSEAQKDSFESILRLIFEIHHSGEKGDIVVFLA  
 CEQDIEKVCETVYQGSNLPDLGELVVVPLYPKEKCSLTKPLDETEKRCQVYQRRVLTSSSGEFLIWSN  
 SVRFVIDVGVERRKVYNPRIRANSLVMQPISSQAEIRKQILGSSSSGKFFCLYTEEFASKDMTLPKPAE  
 MQEANLTSMLFMKRIDIAGLGHCFMNRPAPESLMQALELDYLAALDNDGNLSEFGIIMSEFLDPQL  
 SKSILASCEFDDEVLTIAAMVTAPNCFSHVPHGAEAAALTCWKTLHPGEGDHFLLISIKAYQDFTLN  
 SSSEYCVKEKCRDYFLNCSALRMADVIRAELEIKRIELPYAEPAFGSKENTLNKIKALLSGYFMQIAR  
 DVDGSGNYLMLTHKQVAQLHPLSGYSITKKMPEWVLFHKFSISENNYIRITSEISPELFMQLVPQYFNS  
 LPPSESKDILQQVVDHLSPVSTMNKEQQMCETCPETEQRCTLQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_018180

**ORF Size:** 2229 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.

**RefSeq:** [NM\\_018180.2](#), [NP\\_060650.2](#)

**RefSeq Size:** 3070 bp

**RefSeq ORF:** 2232 bp

**Locus ID:** 55760

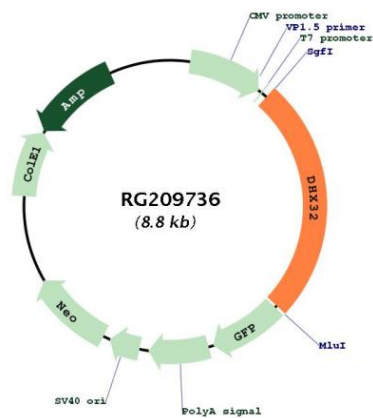
**UniProt ID:** [Q7L7V1](#)

**Cytogenetics:** 10q26.2

**Domains:** HA2

**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 DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. This gene encodes a member of this family. The function of this member has not been determined. Alternative splicing of this gene generates 2 transcript variants, but the full length nature of one of the variants has not been defined. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG209736