

Product datasheet for **RC209736**

DHX32 (NM_018180) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHX32 (NM_018180) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DHX32
Synonyms:	DDX32; DHLP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC209736 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGAAGAAGGGCTGGAGTGTCCAACTCTTCTCTGAAAAACGCTATTTCTGAATCCCTGGATT
CCAGCGATGGGGATGAGGAAGAGGTTTTGGCCTGTGAGGATTTGGAACCTAACCCCTTTGATGGATTGCC
ATATTCATCACGTTATTATAAACTTCTGAAAGAAAGAGAAGATCTTCTATATGGAAAGAAAAACTCC
TTTATGGAGAACCTGCTTCAAAATCAAATCGTGATTGTTTCAGGAGATGCTAAATGTGGTAAAGAGCGCTC
AGGTTCTCAGTGGTGTGCTGAATATTGTCTTCCATCCACTACCAGCACGGGGCGTGATGCACACA
GGTCCACAAGCAGACTGTGGTCCAGCTCGCCCTGCGGGTGGCGGATGAAATGGATGTTAACATTGGTCAT
GAGGTTGGCTACGTGATCCCTTCGAGAAGTGTACCAACGAAACAATCCTGAGGATTGTACTGATG
ATATGCTGCAAAGAGAAATGATGTCCAATCCTTTTTGGGTAGCTATGGGGTCATCATCTTAGATGATAT
TCATGAAAGAAGCATTGCAACTGATGTGTTACTTGGACTTCTTAAAGATGTTTTACTAGCAAGACCAGAA
CTGAAGCTCATAATTAATCCTCACCTCACCTGATCAGCAAACCTCAATCTTATTATGAAACGTGCCTG
TCATAGAAGTAAAAATAAACACCTGTGGAGTTGTGTACCTTGTGAGGCTCAAAAGGATTCTTTTGA
GTCTATTTTACGCCTTATCTTTGAAATTCACCACTCGGGTGAAGAGGTGACATTGTAGTCTTTCTGGCC
TGTGAACAAGATATTGAGAAAGTCTGTGAAACTGTCTATCAAGGATCTAACCTAACCCAGATCTTGGAG
AACTGGTGGTTGTTCTTTGTATCCAAAAGAGAAATGTTCACTTGTCAAGCCACTCGATGAAACAGAAAA
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TCAGTCAGATTTGTTATCGATGTGGGTGTGAAAGAAGAAAGGTGTACAACCCGAGAATAAGAGCAAAC
CGCTCGTCATGCAGCCCATCAGCCAGAGCCAGGCAGAGATACGCAAGCAGATTCTTGGTCATCTTCTTC
AGGAAAAATTTTTCTGCCTGTACACTGAAGAATTTGCCTCAAAGACATGACGCCACTGAAGCCAGCAGAA
ATGCAGGAAGCCAACTAACAAGCATGGTGCTTTTTATGAAGAGGATAGACATTGCGGGCTAGGCCACT
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TCGAAGTCTATCTTAGCGTCCTGTGAATTTGACTGTGTAGATGAAGTCTAACAATCGCGGCCATGGTAA
CAGCTCCAAATGCTTTTACATGTGCCACATGGAGCTGAAGAGGCTGCCTTGTGTTGGAAGACATT
TTTACATCCCGAAGGAGATCACTTACCCTCATCAGATTTACAAGGCTTACCAAGACACAACCTGTAAT
TCTAGCAGTGAGTACTGTGTGAAAAGTGGTGTCTGATTACTTCTCAACTGTTTCAGCACTCAGAAATGG
CAGATGTTATTCGAGCTGAACTCTTAGAAATTATCAAGCGAATCGAGCTTCCCTATGCAGAACCTGCTTT
TGCTCCAAGGAAAACACTCTAAACATAAAGAAAGCTTCTGTCCGGTACTTTATGCAGATTGCTCGG
GATGTTGATGGATCAGGTAACCTAATGCTGACACATAAGCAGGTTGCTCAGCTGCATCCCCTGTCTG
GTTACTCAATCACCAAGAAGATGCCAGAGTGGTCCTCTTCCATAAATTCAGCATTTCTGAGAACAACCTA
CATCAGGATTACCTCAGAAATCTCTCTGAACTATTTATGCAGCTGGTACCACAATACTATTTTCAGTAAT
CTGCCTCTAGTAAAAGTAAGGACATTCTACAGCAAGTAGTGGATCACCTATCCCCTGTGTCAACAATGA
ATAAGGAACAGCAAATGTGTGAGACGTGCCCTGAAACTGAACAGAGATGCACTCTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209736 protein sequence
Red=Cloning site Green=Tags(s)

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MEEEGLECPNSSSEKRYFPESLDSSDGDEEEVLACEDLELNPFDGLPYSSRYKLLKEREDLPWKEKYS
FMENLLQNQIVIVSGDAKCGKSAQVPQWCAEYCLSIHYQHGGVICTQVHKQTVVQLALRVADEMDVNIGH
EVGYVIPFENCCTNETILRYCTDDMLQREMMSNPFLGSYGVIILDDIHERSIATDVLLGLLKDVLLARPE
LKLIIINSSPHLISKLSNYGNNVPVIEVKNKHPVEVVYLSEAQKDSFESILRLIFEIHHSGEKGDIVVFLA
CEQDIEKVCETVYQGSNLNPDGELVVVPLYPKEKCSLFPKPLDETEKRCQVYQRRVVLTTSSGEFLIWSN
SVRFVIDVGVERRKVYNPRIRANSLVMQPISSQAEIRKQILGSSSSGKFFCLYTEEFASKDMTPLKPAE
MQEANLTSMLFMKRIDIAGLGHCFMNRPAPESLMQALELDYLAALDNDGNLSEFGIIMSEFLDPQL
SKSILASCEFDVDEVLTIAAMVTAPNCFSHVPHGAEAAALTCWKTFLLHPEGDFHTLISIKAYQDITLNL
SSSEYCVKEKCRDYFLNCSALRMADVIRAELEIKRIELPYAEPAFGSKENTLNKIKALLSGYFMQIAR
DVDGSGNYLMLTHKQVAQLHPLSGYSITKKMPEWVLFHKFSISENNYIRITSEISPELFMQLVPQYVFSN
LPPSESKDILQQVVDHLSPVSTMNKEQQMCETCPETEQRCTLQ
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TRTRPLEQKLISEEDLANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6545_c07.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_018180

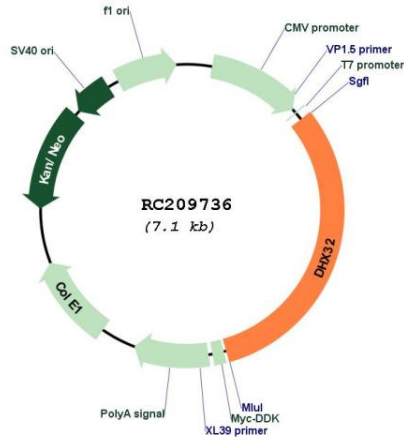
ORF Size: 2229 bp

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](#)

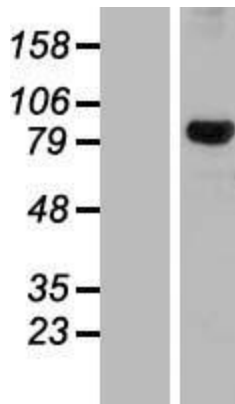
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<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_018180.3
RefSeq Size:	3070 bp
RefSeq ORF:	2232 bp
Locus ID:	55760
UniProt ID:	Q7L7V1
Cytogenetics:	10q26.2
Domains:	HA2
MW:	84.4 kDa
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]

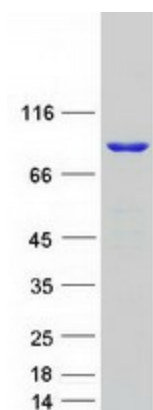
Product images:



Circular map for RC209736



Western blot validation of overexpression lysate (Cat# [LY413225]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209736 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DHX32 protein (Cat# [TP309736]). The protein was produced from HEK293T cells transfected with DHX32 cDNA clone (Cat# RC209736) using MegaTran 2.0 (Cat# [TT210002]).