

Product datasheet for **RC205414**

DHX40 (NM_024612) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHX40 (NM_024612) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DHX40
Synonyms:	ARG147; DDX40; PAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC205414 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCCGGTTTCCCGCAGTCGCGGCAGGGCGCCAAGCGGCAGGAGGAGGGTGAGCGGTCAAGAGACC
 TCCAGGAAGAGCGGCTCTCGGCTGTTTGCATCGCCGATAGAGAAGAGAAAGGATGCACGTCCAGGAGGG
 AGGAACTACTCCAACCTTTTCTATTTCAGAAACAAAGAAAAAGATTATTCAAGCTGTGAGGGACAATTCA
 TTCCTTATTGTTACTGGAAATACAGGAAGTGGTAAACAACCTCAACTCCCAAAATATCTATATGAAGCAG
 GGTTTTCAACATGGTATGATTGGTGAACCAACCAGAAAAGTAGCTGCTATATCAGTTGCTCAGAG
 AGTAGCTGAAGAAATGAAATGCACTTTGGGATCCAAAGTAGGATACCAAGTTCGTTTTGATGATTGCAGT
 TCTAAGGAGACAGCAATCAAATATATGACTGATGGATGTTTACTGAAACATATTCTGGGAGACCCAAATC
 TTACCAAATTCAGTGTCAATTATTTGGATGAAGCCCATGAAAGAACTCTAACTACAGATATCTTATTTGG
 TTTATTGAAGAAGCTATTTGAGGAGAAGTCTCCTAATAGGAAGGAGCATTAAAAAGTGGTGGTAATGTCA
 GCAACTATGGAATTAGCCAAGCTCTCTGCATTCTTTGGAATTTGTCCAATATTTGATATACCTGGAAGGC
 TTTATCCAGTCAGAGAGAAATCTGCAATTTGATTGGTCCACGAGACAGAGAAAAACTGCGTATATTCA
 AGCGATTGTGAAAGTCAACATGGATATCCATTTGAATGAAATGGCTGGAGACATCTTGGTTTTCTGACT
 GGCCAGTTTGAATAGAAAAAGTTGTGAGTTACTTTTTTCAGATGGCAGAGTCTGTTGATTATGATTATG
 ATGTTCAAGATACCACCTCGATGGCTTGTAAATATTGCCGTGTTATGGATCAATGACAACAGATCAACA
 GAGGAGGATATTTTGCACCACCACCTGGAATTAGAAAAATGTGCATATCCACCAATATTTCTGCAACG
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 GATTAGGGTTGGACATCCTGGAGGTGGTTCCAATTTCAAAGAGCGAGGCATTACAGCGAAGTGGCCGAGC
 TGGCAGGACTTCTTCAGGAAAAATGCTTTTCGGATCTATAGTAAAGATTTTGGAAACCAAGTGTATGCCTGAC
 CATGTGATCCCTGAAATTAAGAGAACTAGTTTGACATCTGTAGTTCTGACCTTAAAGTGCCTTGCCATAC
 ACGATGTCATAAGGTTTCCCTATTTGGATCCACCTAATGAGAGACTTATTTAGAAGCTCTTAAACAACCT
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 TTGCCTCCACATCTGACATGTGCAGTAATAAAAGCTGCTTCCCTGGATTGTGAAGATCTACTACTTCCAA
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 ACAGAGACATCGAGAATTGGCAGCTAAAGCTGGAGGATTTAATGACTTTGCAACTTAGCTGTCACTTT
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 GTAGCTCGAAGATCTGTTGGGAGAACGTTTTGCACAATGGATGGTCGTGGAAGCCAGTTTACATTCATC
 CTTCCTCAGCACTTATGAACAGGAAACCAAACTTGAATGGATCATTTTTCATGAGGTATTGGTTACCAC
 CAAAGTCTACGCAAGAATTGTATGCCCAATCCGTTATGAATGGTAAGAGACTTGTACCCAAGTTGCAT
 GAATTTAATGCACATGATTTGAGCAGTGTGGCCGACGTGAAGTGAGAGAAGATGCAAGAAGGAGATGGA
 CAAATAAGGAAAAATGTAAAGCAGCTAAAGGATGGAATATCGAAAGACGTCTTAAAGAAAAATGCAAGAAG
 AAATGATGACAAATCCATATCTGATGCACGGGCTCGTTTCCTTGAGAGAAAGCAGCAGAGGACCCAGGAC
 CACAGTGACACACGAAAGGAAACAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205414 protein sequence

Red=Cloning site Green=Tags(s)

MSRFPVAGRAPRRQEEGERSRDLQEERLSAVCIADREEKGCTSQEGGTTPTFPIQKQRKKIIQAVRDN
FLIVTGN TGSGKTTQLPKYLYEAGFSQHGMIGVTQPRKVA AISVAQRVAEEMKCTLGSKVGYQVRFDDCS
SKETAIKYMTDGCLLKHILGDPNLTKFSVILDEAHERTLTDDILFGLLKKLFQEKSPNRKEHLKVVVMS
ATMELAKLSAFFGNCPIFDIPGRLYPVREKFCNLIGPRDRENTAYIQAIKVTMDIHLNEMAGDILVFLT
GQFEIEKSCELLFQMAESVDYDYDQDTTLDGLLILPCYGSMTTDQRRIFLPPPPGIRKCVISTNISAT
SLTIDGIRYVVDGGFVKQLNHNPRLLGLDILEVVPISKSEALQRSGRAGRTSSGKCFRIYSKDFWNQCM
PDHVIPEIKRTSLTSVVLTLKCLAIHDVIRFPYLDPPNERLILEALKQLYQCD AIDRSGHVTRLGLSMVEFP
LPHLTCAVIKAASLDCELLLLPIAAMLSVENVFIRPVDPEYQKEAEQRHRELA AKAGGFNDFATLAVIF
EQCKSSGAPASWCQKHWIHWRLFSAFRVEAQLRELIRKLKQSDFPKETFE GPKHEVLRRLCAGYFKN
VARRSVGRTFCTMDGRGSPVHIHPSSALHEQETKLEWIIIFHEVLVTTKVYARIVCPIRYEWVRDLLPKLH
EFNAHDLSSVARREVREDARRRWTNKENVKQLKDGISKDVLKKMQRRNDDKSI SDARARFLERKQQR TQD
HSDTRKETG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

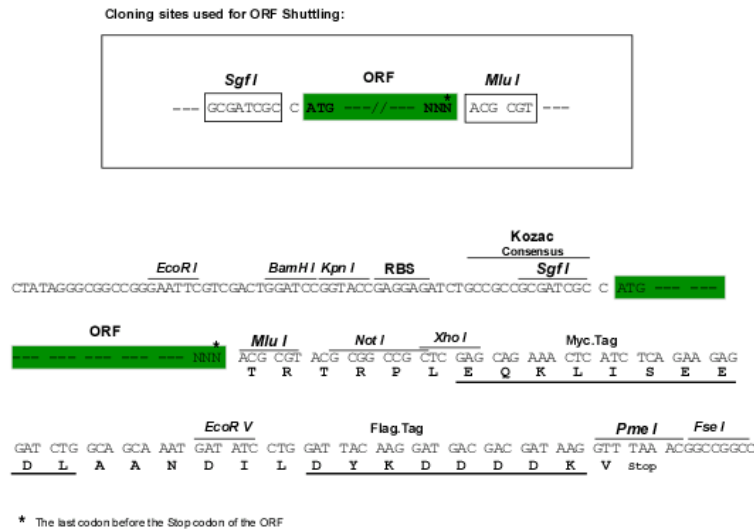
Chromatograms:

https://cdn.origene.com/chromatograms/mk6536_e08.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_024612

ORF Size: 2337 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_024612.5](#)

RefSeq Size: 3682 bp

RefSeq ORF: 2340 bp

Locus ID: 79665

UniProt ID: [Q8IX18](#)

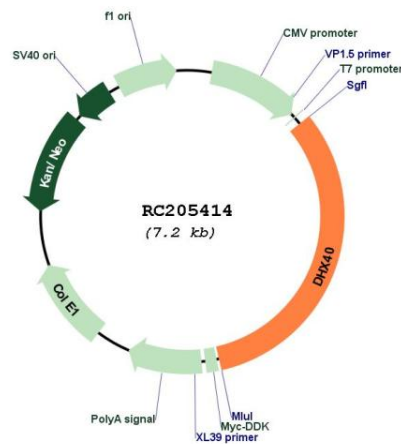
Cytogenetics: 17q23.1

Domains: DEAD, helicase_C, HA2

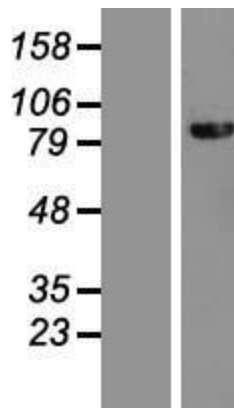
MW: 88.6 kDa

Gene Summary: This gene encodes a member of the DExH/D box family of ATP-dependent RNA helicases that have an essential role in RNA metabolism. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 17.[provided by RefSeq, Oct 2009]

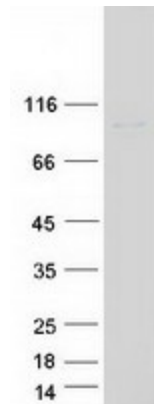
Product images:



Circular map for RC205414



Western blot validation of overexpression lysate (Cat# [LY411202]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205414 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DHX40 protein (Cat# [TP305414]). The protein was produced from HEK293T cells transfected with DHX40 cDNA clone (Cat# RC205414) using MegaTran 2.0 (Cat# [TT210002]).