

Product datasheet for **RC214668**

DHX35 (NM_021931) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHX35 (NM_021931) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DHX35
Synonyms:	C20orf15; DDX35; KAIA0875
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC214668 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCTGCGCCCGTGGGACCGGTGAAGTCTGGCGACCCGGTACAGAGGGGCCAGGTGTAAGCATCTCTG
AAGAGAGACAAAGTCTGGCTGAAAACCTCTGGGACACCGTTGTTTACAACCCATTATGCTGCCCTTCCAT
AGAGCAGCAGAGGCAGAAGCTGCCGGTATTCAAGCTTAGGAATCATATTTTATACTTGATAGAAAATTAT
CAGACAGTGGTATTGTTGGTGAACAGGATGTGGGAAGAGCACACAGATTCTCAGTACCTTGACAGAAG
CCGGCTGGACAGCTGAAGGAAGAGTGGTAGGAGTGACCCAGCCTCGAAGAGTGGCTGCTGTTACAGTTGC
AGGGAGAGTAGCTGAAGAAAGGGTGCAGTGTGGGCCACGAGGTGGGCTACTGCATCCGCTTTGATGAC
TGCACCGACCAGCTGGCCACGAGAATTAAGTTTCTTACTGATGGAATGCTGGTCAGGGAATGATGGTTG
ATCCGTTGTTAACAAAATATAGTGTATCATGCTGGATGAAGCCACGAGAGGACCTTGACTACTGACAT
TGCCATTGGCTTGCTAAAAAAGATTTCAGAAAAAGCGAGGGGATCTTCGATTGATTGTAGCTTCAGCCACT
CTGGATGCAGACAAATCCGGGATTTCTTTAATCAAAATGAAACCAAGTATCCAGCAAGGGATACATGTG
TGATCCTTACAGTGAAGGGAGAACATTTCCGGTGGATATCTTTTATCTACAAAGTCTGTTCCAGATTA
TATCAAAATCAACTGTCGAAACTGTGGTGAATAATCACCAGACAGAGGGAGACGGAGACGTTTTAGCATT
CTTACTGGCCAGGAAGAGGTAGAAAAGTGTGTGTCGATGCTCATCGAGCAGGCTCGAGCACTAGCTCGCA
CTGGGATGAAGAGACACCTCCGAGTTCCTCCCATGTATGCAGGACTGCCTTCCTTTGAGCAAATGAAAGT
GTTTGAAGGGTGTACGCAGTGTGAGAAAGGTGATAGTGGCCACCAATGGGCAGAAACCTCTATCACA
ATCAGCGGCATTGTGTATGTGATCGACTGTGGCTTTGTGAAACTCCGAGCCTACAATCCCAGGACAGCTA
TTGAATGCTTGGTGGTGGTCCAGTCTCCAGGCATCAGCTAATCAGCGAGCAGGACGTTGGTGGTCTGAT
TCGCTCGGGAAAAATGTTATCGCCTTTATACAGAGGAAGCCTTTGACAAGTTGCCTCAGTCTACGGTTCT
GAGATGCAGCGTAGTAATTTGGCACCTGTATCCTGCAGCTGAAAGCACTAGGAATTGACAATGTCTCA
GGTTCACCTTCATGTCGCCCCCTCCAGCACAGTCGATGGTTCAAGCCTTGGAGTACTGTATGCTCTGGG
AGGTCTGGACAAAGACTGTCGCCTAACTGAACCGCTTGGCATGAGAATTGCAGAGTTTCTTTGAATCCC
ATGTTTGCCAAAATGCTGCTTGAATCAGGAACTTCGGCTGTTCTCAGGAAATCTAAGCATCGCTGCCA
TGATGCAGATCCAGAATATCTTTGGTCCCCCAACCAGAAGTCTCACGCAATTCGAGTGCACCGTAA
ATTTGCTGTGGAGAGGGCGACCACCTCACTATGCTCAATATATGAAGCATTTATCAACACAATAAG
GACTCTAAATGGTGTGAGGAACATTTCTGAATTACAAGGTCTTGTGAGAGCTGCGACTGTAAGAGAAC
AATTGAAAAAGCTTCTTGTCAAGTTTCAAGTGCCAGGAAGTCTAGTGAAGGTGACCCGGATCTGTTCT
GAGGTGCATTGTCTCCGGCTTCTCGCCAATGCAGCGAGGTTTCATTCTACTGGAGCTTATAGGACCATC
CGTGATGACCATGAGCTGCACATACACCCTGCGTCAGTCTCTATGCAGAGAAGCCGCTCGCTGGGTCA
TCTATAACGAAGTTATACAGACCTCCAAGTACTACATGAGAGATGTGACTGCCATTGAATCGGCCTGGCT
GTTGGAGCTGGCTCCACACTTTTATCAACAAGGAACGCACCTGTCTCTGAAAGCCAAAAGGGCCAAGGTC
CAGGACCCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214668 protein sequence
Red=Cloning site Green=Tags(s)

MAAPVGPVKFWRPGTEGPGVSISEERQSLAENSGTTVVYNPYAALSIEQQRQKLPVFKLRNHILYLIENY
 QTVVIVGETGCGKSTQIPQYLAEGWTAEGRVVGVTPRRVAAVTVAGRVAEERGAVLGHEVGYCIRFDD
 CTDQLATRIKFLTDGMLVREMMVDPLLTKYSVIMLDEAHERTLYTDIAIGLLKKIQKRGDLRLIVASAT
 LDADKFRDFFNQNETSDPARDTCVILTVEGRTFPVDIFYLQSPVPDYIKSTVETVVKIHQTEGDGDLAF
 LTGQEEVETVVSMLIEQARALARTGMKRHLRVLPYAGLPSFEQMKVFERVSRVSRVIVATNVAETSIT
 ISGIVYVIDCGFVKLRAYNPRTAIECLVVVPVQSASANQRAGRGGRSRSGKCYRLYTEEAFDKLPQSTVP
 EMQRSNLAPVILQLKALGIDNVLRFHFMSPPPAQSMVQALELLYALGGLDKDCRLTEPLGMRIAEPFLNP
 MFAKMLLESGNFGCSQEILSIAAMMQIQNIFVPPNQKSHAIRVHRKFAVEEGDHLTMLNIYEAFIKHNK
 DSKWCQEHLNKGKLVRAATVREQLKLLVKFQVPRKSSEGDPLVLRCEIVSGFFANAARFHSTGAYRTI
 RDDHELHIHPASVLYAEKPPRWVIYNEVIQTSKYMRDVTAIESAWLLELAPHFYQGGTHLSLKAKRAKV
 QDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6607_d02.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_021931

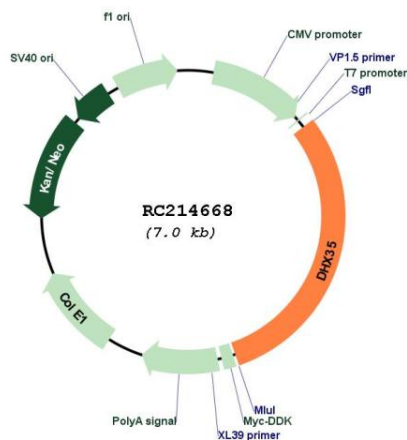
ORF Size: 2109 bp

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](#)

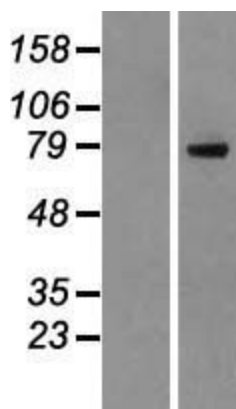
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_021931.4
RefSeq Size:	3336 bp
RefSeq ORF:	2112 bp
Locus ID:	60625
UniProt ID:	Q9H5Z1
Cytogenetics:	20q11.23-q12
Domains:	DEAD, helicase_C, HA2
MW:	78.9 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 the DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. The function of this gene product which is a member of this family, has not been determined. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jun 2010]

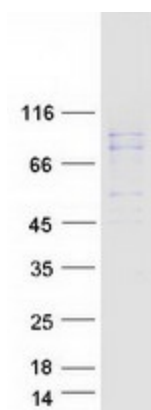
Product images:



Circular map for RC214668



Western blot validation of overexpression lysate (Cat# [LY411896]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214668 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DHX35 protein (Cat# [TP314668]). The protein was produced from HEK293T cells transfected with DHX35 cDNA clone (Cat# RC214668) using MegaTran 2.0 (Cat# [TT210002]).