

Product datasheet for **RG208403**

DHX8 (NM_004941) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DHX8 (NM_004941) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DHX8
Synonyms:	DDX8; Dhr2; HRH1; PRP22; PRPF22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208403 representing NM_004941 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGTGGCTGTAGCCATGGCGGGAGCCTTAATCGGGTCGGAGCCAGGCCCGCGGAAGAAGCTTGCCA
AACTCGAGTACCTGTCTTTGGTGTCAAAGTTTGCAGTGGACAATCACTTGGGGTCAACGACAA
GGACCTTGCTGAATTTGTGATCAGTCTTGCTGAGAAAAATACCACCTTTGATACTTTAAGGCTTCTCTC
GTCAAAAATGGTGCAGAATTTACGGATTCTCTTATTAGTAACTTGTGCGTCTCATACAAACCATGCGGC
CTCCAGCGAAGCCTTCCACTAGCAAAGATCCAGTTGTTAAACCTAAAACAGAAAAAGAAAGCTGAAGGA
ACTCTTCCAGTCTTTGCCAACCGGACAACCTTCTGTTCCGGACCATGTTGGATGAAGATGATGTGAAA
GTTGCTGTGGATGTCTGAAAGAACTGGAAGCTTAAATGCCAGCGCAGCAGGCCAGGAGAAGCAAAGAG
ATGCTGAACACCGGGACAGGACAAAGAAGAAGAAGCGGAGTCAAAGCCGAGATCGAAACCGAGATCGAGA
CAGAGATAGGGAACGAAACCGAGATAGAGACCACAAGCGGAGACACCGATCCCGCTCTCGATCACGTTCC
AGGACCCGGGAGAGGAATAAAGTGAAGTCTAGATATCGGTCCAGGAGCAGGAGTCAAGTCCCCCAAAG
ACCGGAAGGACCGGGACAATAATGGAGAGCGGAATCTGGATAGATGGCGGGATAAGCATGTGGACCGCCC
TCCTCCAGAAGAGCCCACCATTGGTGACATTTAATGGCAAAGTTACCAGCATCATGCAGTTTGGTTGC
TTTGTGCAGCTGGAAGGACTAAGGAAGCGGTGGGAAGCCCTGGTGCACATCTGTAGCTCCGGCGGGAGG
GTCGTGTGGCCAATGTAGCTGATGTCGTGAGCAAAGGCCAGAGGGTCAAAGTCAAAGTGTCTCCTTCCAC
TGGGACCAAGACCAGCCTGAGCATGAAGGATGTGGATCAAGAGACTGGAGAAGATCTAAACCCAAATAGA
CGGCGAAATCTTGTGGGGAGACCAATGAGGAGACCTCAATGCGGAATCCTGATAGACCCACTCACTTGT
CCCTTGTGAGTGTCTGAAAGTGAAGGACGACTCACTGGAACGCAAGCGCCTCACCCAAATCTCTGACCC
AGAGAAGTGGGAGATCAAACAGATGATTGCTGCCAATGTCCTTTCCAAAGAAGAATTTCCAGACTTTGAT
GAAGAGACTGGCATTCTCCCTAAGGTGGATGATGAAGAAGATGAGGACCTTGAGATTGAATTGGTTGAGG
AAGAGCCTCCATTCTGAGAGGGCACACTAAGCAAAGCATGGACATGAGCCCCATTAATAATTGTCAAGAA
CCCAGACGGCTCCCTCTCCAAGCAGCAATGATGCAGAGTGCCTTGGCCAAGAAAGCGGGAACTCAA



CAGGCCACGCGGAAGCTGAGATGGATTCTATCCCATGGGACTCAACAAACTGGGTTGACCCTCTGC
CTGATGCGGAAGGCAGACAGATTGCTGCCAACATGAGGGGATTGGGATGATGCCAATGATATTCTGA
GTGGAAGAAGCATGCCTTTGGGGCAACAAAGCCTTTACGGAAGAAAGACCCAGATGTCAATCCTTGAG
CAGAGGGAGAGCCTGCCATCTACAACTGAAGGAGCAATTGGTCCAGGCCGTCCATGACAATCAGATCC
TGATTGTCATTGGTGAGACAGGATCTGAAAGACAACACAGATCACCCAGTACCTGGCGGAGGCAGGCTA
CACTTCCAGGGCAAGATTGGGTGTACCCAGCCAGAAGAGTGGCAGCTATGTCGGTGGCCAAAAGAGTG
TCAGAGGAGTTTGGTTGTTGCTTAGGCCAAGAGGTGGGCTACACCATTGATTTGAGGACTGCATAGC
CTGAAACAGTCATCAAGTACATGACAGATGGGATGTTGCTTAGAGAGTGTGATTGACCCTGACCTCAC
TCAGTACGCGATCATCATGTTGGACGAGGCACATGAGAGGACAATTCACTGATGTGCTCTTTGGATTG
TTGAAAAAGACAGTTCAGAAACGGCAGGACATGAAGCTGATTGTACCTCAGCCACCTTGGATGCAGTGA
AGTTTTCTCAATACTTCTATGAAGCTCCCATTTTACCATCCCAGGTCGAACATATCCAGTGAAATACT
GTACACAAAGGAACCTGAGACAGATTATCTGGATGCCAGCCTGATTACTGTTATGCAGATTCATTTAACA
GAACCACCAGGTGATCCTGGTCTTCTGACTGGTCAGGAAGAAATTGATACTGCTTGTGAGATCCTGT
ATGAAAGAATGAAATCCCTGGGACCTGATGTTCCAGAGTTAATTATCCTCCAGTGTACTCTGCTTTCC
CAGTGAGATGCAGACCCGAATCTTTGACCCAGCTCCACCAGGCAGAGAAAGTTGTGATTGCCACCAAT
ATCGCAGAGACATCGCTGACTATTGATGTTATCTACTATGTTGGTGGACCCAGGATTTCGTAAACAGAAA
TTTACAATTTCAAGACAGGGATTGACCAGCTCGTGGTGACGCCTATTTCTCAGGCTCAGGCAAAGCAACG
AGCTGGCAGAGCTGGGAGAACAGGCCAGGGAAGTGTACAGGTTGTACACAGAACGTGCCTACCGAGAT
GAAATGCTGACCACCAACGTGCCGGAATCCAGAGAACCAACTTAGCAAGCACAGTGTGCTCACTCAAGG
CCATGGGTATCAATGATCTGCTGCTCCTTTGATTTTATGGATGCCCCACCTATGGAACTTTGATCACAGC
CATGGAGCAGCTGTACACACTGGGGCCCTGGATGACGAGGGCCTGCTCACTCGCTTGGGCCGCCGATG
GCAGAGTTCCCTCTGGAGCCAATGCTATGCAAAATGCTCATCATGTCTGTGCATCTGGGCTGCAGTGAGG
AAATGCTGACCATTGATCCATGCTGTCTGTGCAGAAGTCTTCTATAGGCCAAAGGATAAACAAGCCCT
TGCAAGTACAGAAGAAGGCCAAATTCACCAGACTGAAGGGGACCACCTCACCTGTAGCTGTGTACAAC
TCTTGGAAAGAACAAGTTCTCAACCCATGGTGTATGAGAACTTTATCCAGGCTCGTTCCCTGCGCC
GGGCCAGGACATTGCGGAGCAGATGTTAGGCATAATGGACAGACACAAGCTGGATGTTGTTTCTGTGG
CAAGTCCACAGTCCGAGTGCAGAAGGCCATCTGCAGTGGGTTCTTCCGTAATGCTGCCAAGAAAGACCCG
CAGGAGGGTTACCGGACTGATCGACCAGCAGGTGGTCTATATCCATCCTTCCAGTGCCTCTTCAACA
GACAGCCAGAATGGTGGTGTACCATGAGCTGGTGTCTACCACCAAGGAATACATGCGTGAAGTTACCAC
CATCGACCCTCGGTGGCTTGTGGAGTTTCCCCAGCCTTCTTCAAGTCTCAGACCCAACTAAGCTAAGC
AAACAGAAGAAGCAACAGCGTCTTGAACCTTGTACAACCGCTATGAGGAACCAATGCCTGGAGAATAT
CTCGAGCTTTCCGACGGCGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

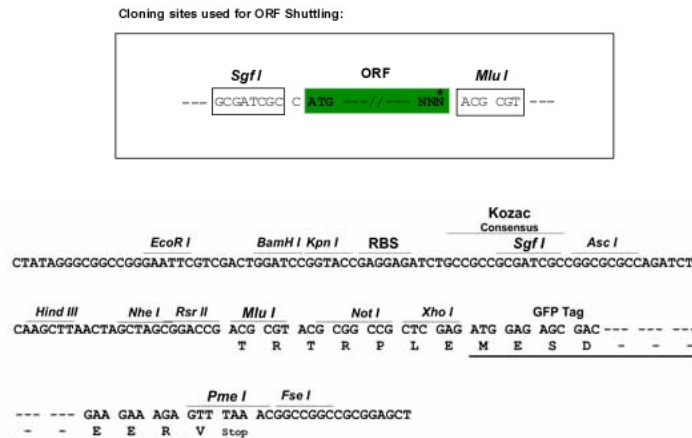
Protein Sequence: >RG208403 representing NM_004941
 Red=Cloning site Green=Tags(s)

MAVAVAMAGALIGSEPGPAEELAKLEYLSLVSKVCTELDNHLGINDKDLAEFVISLAEKNTTFDTFKASL
 VKNGAEFTDSLINLLRLIQTMPPAKPSTSKDPVVKPKTEKEKELKELFPVLCQPDNPSVRTMLDEDDVK
 VAVDVLKELEALMPAAGQEKQRDAEHRDRTKKKKRSRSRDRNRDRDRDRERNRDRDHKRRHRSRSRSRS
 RTRENRKVKRSYRSRSRSQSPPKDRKDRDKYGERNLDRWRDKHVDRPPPEEPTIGDIYNGKVTSIMQFGC
 FVQLEGLRKRWEGLVHISELRREGRVANVADVSKQQRVKVKVLSFTGTKTSLSMKDVDQETGEDLNPNR
 RRNLVGETNEETSMRNPDRPHTLSLSAPEVEDDSLERKRLTQISDPEKWEIKQMIANVLSKEEFPDFD
 EETGILPKVDDEEDEDLEIELVEEPPFLRGHTKQSMDSPIKIVKNPDGSLQAAMQSALAKERRELK
 QAQREAEMDSIPMGLNKHWDPLDAEGRQIAANMRGIGMMPNDIPEWKKHAFGGNKASYGKKTQMSILE
 QRESLPIYKLKEQLVQAVHDNQILIVIGETGSGKTTQITQYLAEGYTSRGKIGCTQPRRVAAMSAKRV
 SEEFGCCLGQEVGYTIRFEDCTSPETVIKYMTDGMLLRECLIDPDLTQYAIIMLDEAHERTIHTDVLFG
 LKKTQVQRQDMKLVTSATLDAVKFSQYFEAIFITIPGRYTPVEILYKPEPTYLDASLITVMQIHLT
 EPPGDILVFLTGQEEIDTACEILYERMKSLGPDVPELIIILPVYSALPSEMQTRIFDPAPPGSRKVVIA
 TNIAETSLTIDGIYYVDPGFVKQKQVYNSKTGIDQLVVTPIISQAQAKQRAGRAGRTGPGKCYRLYTERAY
 RDEMLTTNVPEIQRNTLASTVLSLKAMGINDLLSDFMDAPPMETLITAMEQLYTLGALDDEGLLTRLGRR
 MAEFPLEPMLCKMLIMSVHLGCSEEMLTIIVSMLSVQNVFYRPKDKQALADQKAKFHQTEGDHLLAVYN
 SWKNNKFSNPWCYENFIQARSLRRAQDIREQMLGIMDRHKLDDVSCGKSTVRVQKAIKCSGFFRNAAKKDP
 QEGYRTLIDQQVYIHPSSALFNRQPEWVVYHELVLTTKEYMREVTTIDPRWLVEFAPAFKVSPTKLS
 KQKKQQRLEPLYNRYEEPNAWRI SRAFRRR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

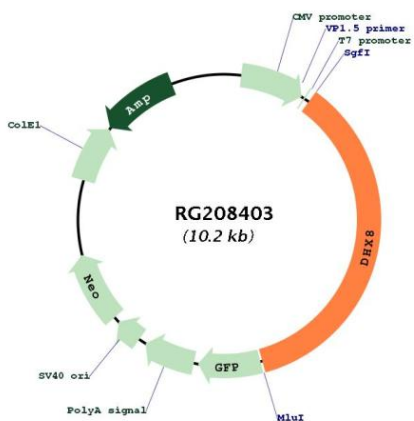


ACCN: NM_004941

ORF Size: 3660 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_004941.1 , NP_004932.1
RefSeq Size:	4201 bp
RefSeq ORF:	3663 bp
Locus ID:	1659
UniProt ID:	Q14562
Cytogenetics:	17q21.31
Domains:	DEAD, helicase_C, S1, HA2
Protein Pathways:	Spliceosome
Gene Summary:	This gene is a member of the DEAH box polypeptide family. The encoded protein contains the DEAH (Asp-Glu-Ala-His) motif which is characteristic of all DEAH box proteins, and is thought to function as an ATP-dependent RNA helicase that regulates the release of spliced mRNAs from spliceosomes prior to their export from the nucleus. This protein may be required for the replication of human immunodeficiency virus type 1 (HIV-1). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Product images:



Circular map for RG208403