

Product datasheet for RC217270

DNA helicase HEL308 (HELQ) (NM_133636) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNA helicase HEL308 (HELQ) (NM_133636) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNA helicase HEL308
Synonyms:	HEL308
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217270 representing NM_133636 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGAATGTGGTTCCCGCATCCGCCGGCGGGTGTCTCTCCCAAAAGGAACCGTCCAAGCTTGGGGT
GTATTTTTGGCGCTCCCACCGCGCCGAGCTCGAGCCCGGAGATGAGGGGAAAGAGGAGGAAATGGT
GGCTGAGAACAGGAGCGGAAAACCGCGGGCGTACTGCCGGTTGAGGTACAGCCCTTCTACTCTCAGAT
TCCCGGAATGTCTCGTCTTGGAGTGGTGATACAAACCGGACCTCCTACGTACATGCCACTGACA
GAGGGTGGGAGACCAGCCTAATGACAGTGAAGTGGACATGTTTGGTACTATGATAGCTTACTGAAAA
CTCCTTTATAGCTCAAGTTGACGACCTGGAACAAAATATATGCAACTCCCTGAACATAAGAAACATGCT
ACAGACTTTGCCACTGAAAATCTTTGCTCGGAAAGTATCAAAAACAACTCAGCATTACTACCATAGGCA
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AATGATTTGGGTGATCATTCTATGAAAGAAAGGGATTGGAAGTCATCCTCTCACAACTGTGAATGAGG
AACTGCCCATAATTGCATAGAGCAACCCAGCAAAATGATGAGTCCTCTTCAAAGTCAGAAGTGTTC
AGATATGAACAGGAGAAAAAGTATTAAGATCATCTAAAAATGCCATGACTGGAATGCGAAGGCCAG
ACACCAATTTTTCTAGAAGTAAACAGCTCAAAGACACTCCTCTGAGGAAATTAATGTTGCTAAGA
AAACAGTTGAGTCATCATCAAATGACCTTGGTCTTTTTTATTTCATTACCCAGCAAAGTGAGAGACCTTTA
TGCCCAATTCAAGGAATTGAAAATTATATGAATGGCAACATACTTGTTAACATTGAATTCTGTGCAA
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ACTCAAATTATTGGTATGAGTGCAACATTAACAATGTTGAAGACCTACAAAAGTTTCTTCAAGCAGAAT
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 CACTGACAAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217270 representing NM_133636
 Red=Cloning site Green=Tags(s)

MDECGSRIRRRVSLPKRNRPSLGCIFGAPTAEELEPGDEGKEEEEEMVAENRRRKTAGVLPVEVQPLLLSD
 SPECLVLGGDTPDLLRHMPDRGVGDQPNDESEVDMFGDYDSFTENSIQVDDLEQKYMQLPEHKKHA
 TDFATENLCSSEIKNKLSTTTIGNLTELQTDKHTENQSGYEGVTIEPGADLLYDVPSSQAIYFENLQNSS
 NDLGDHSMKERDWSSSHNTVNEELPHNCIEQPQQNDESSKVRTSSDMNRRKSIKDHKKNAMTGNAAQ
 TPIFSRSKQLKDTLLSEEINVAKKTVESSNDLGPYSLPSKVRDLAQAQFKGIEKLYEWQHTCLTLNSVQ
 ERKNIYLSLPTSGGKTLVAEILMLQELLCCRKDVLMILPYVAIVQEKISGLSSFIELGFFVEEYAGSKG
 RFPPTKRREKKSLEYIATIEKGHSLVNSLIETGRIDSLGLVVDLHMIIGEGSRGATLEMLAKILYTSKT
 TQIIGMSATLNNVEDLQKFLQAEYYTSQFRPVELKEYLINDTIYEVDSKAENGMFTRLLNLYKYSDTLK
 KMDPDHLVALVTEVIPNYSCLVFCPSKKNCENVAEMICKFLSKEYLKHKEKEKCEVIKNLKNIIGNLCP
 VLKRTIPFGVAYHHSGLTSDERKLLLEEAYSTGVLCFTCTSTLAAGVNLPAARRVILRAPYVAKEFLKRNQ
 YKQMIGRAGRAGIDTIGESILILQEKDKQVLELITKPLENCYSHLVQEFTKGIQTLFLSLIGLKIATNL
 DDIYHFMTGTFFGVQKQVLLKEKSLWEITVESLRYLTKGLLQKDTIYKSEEEVQYNFHTKLGRASFKG
 TIDLAYCDILYRDLKKGLEGLVLESLLHLYLTPYDLVSQCNPDWMIYFRQFSQLSPAQQNVAAILGVS
 ESFIGKASGQATGKKVDKNVNRLLYLSFVLYTLLKETNIWTVSEKFNMPRGYIQNLLTGTASFSSCVLH
 FCEELEEFWYRALLVELTKKLYCVKAEIPLMEVTGVLEGRAKQLYSAGYKSLMHLANANPEVLVRTI
 DHLRRQAKQIVSSAKMLLHEKAEALQEEVEELLRLPSDFPGAVASSTDKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8119_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133636

ORF Size: 3303 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_133636.4](#)

RefSeq Size: 3596 bp

RefSeq ORF: 3306 bp

Locus ID: 113510

UniProt ID: [Q8TDG4](#)

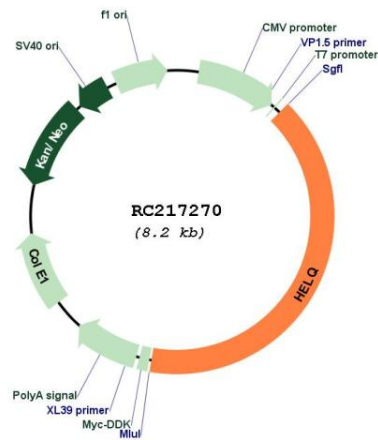
Cytogenetics: 4q21.23

Domains: DEAD, helicase_C

MW: 124.6 kDa

Gene Summary: HEL308 is a single-stranded DNA-dependent ATPase and DNA helicase (Marini and Wood, 2002 [PubMed 11751861]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC217270