

Product datasheet for **RC221602**

DNAH14 (NM_144989) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAH14 (NM_144989) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNAH14
Synonyms:	C1orf67; Dnahc14; HL-18; HL18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221602 representing NM_144989 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACGTTTATACCCATTGATTTGACAACCTGAAAATCAAGAGATGGACAAGGAGGAAACCAAGACAA
AACCAAGACTTTTAAGATATGAAGAGAAAAATATGAAGATGTGAAACCATTAGAGACTCAACCAGCTGA
AATAGCAGAAAAGGAAACATTGGAATATAAACAGTTAGAACATTCTCTGAATCTTTGAAGTCAGAGAAA
ACAGAAGATTACCTTAGAGAAAGTATAATTCAACAACATATGGTTTCTCCAGAGCCAGCTTCCCTTAAGG
AGAAAGGGAAGTCAAGGAGAAAAAGGATCAAACCTCATGCTTGCCAAATGTTAGGAAAGCCAGGCCTGT
GTCCTATGATAGAACAGAACCAAAAGATGATGATGTGATAAGAAATATTATTAGGCTACGAGAAAAGCTT
GGTTGGCAAACCTATATTACCGCAGCACAGTTTGAATACGGAAGCTCAAAATTGCAATTCAGAAGATTA
CTTTAAAGAAACCTTTGGGAAGATGATGGAGAATTTGTTTATTGCCTTCTCGGAAAAGTCCTAAATCCCT
TTACAATCCATATGATCTTCAGGTAGTATCGGCTCATACTGCTAAACATTGCAAAGAATTTGGGTTATT
ACTGCTTCATTTATCTCAAAGAGATACTTGTCATTTGTGGAGCAGTTTATATA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221602 representing NM_144989
Red=Cloning site Green=Tags(s)

METFIPIDLTTENQEMDKKETKTPRLLRYEEKKYEDVKPLETQPAEIAEKETLEYKTVRTFSESLSKSEK
 TEDYLRRESIIQQHMVSPPEASLKEKGGKSRKDDQTHACPNVRKARPVSYDRTEPKDDDVIRNIIRLREKL
 GWQTILPQHSLKYGSSKIAIQKILTKKPLEDDGEFVYCLPRKSPKSLYNPYDLQVVSAAHTAKHCKEFWVI
 TASFISKRYLVICGAVYI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8040_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144989

ORF Size: 684 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.

RefSeq: [NM_144989.3](#)

RefSeq Size: 1108 bp

RefSeq ORF: 687 bp

Locus ID: 127602

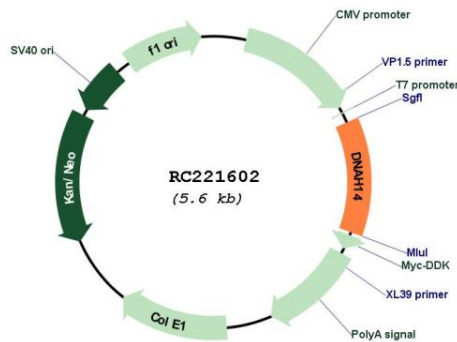
UniProt ID: [Q0VDD8](#)

Cytogenetics: 1q42.12

MW: 26.5 kDa

Gene Summary: Dyneins are microtubule-associated motor protein complexes composed of several heavy, light, and intermediate chains. Two major classes of dyneins, axonemal and cytoplasmic, have been identified. DNAH14 is an axonemal dynein heavy chain (DHC) (Vaughan et al., 1996 [PubMed 8812413]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC221602