

## Product datasheet for **RC226494**

### DNAH12 (NM\_178504) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DNAH12 (NM_178504) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNAH12
Synonyms:	DHC3; DLP12; DNAH7L; DNAH12L; DNAHC3; DNAHC12; DNHD2; HDHC3; HL-19; HL19
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226494 representing NM_178504 Red=Cloning site Blue=ORF Green=Tags(s)

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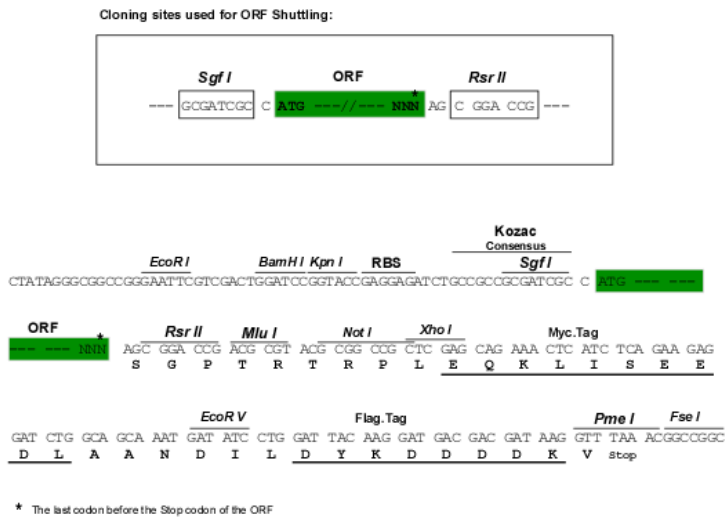
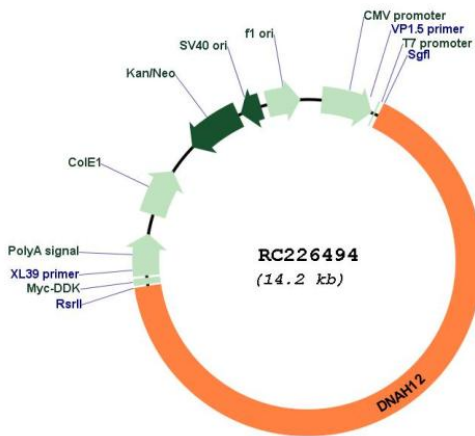
**Protein Sequence:** >RC226494 representing NM\_178504  
 Red=Cloning site Green=Tags(s)

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**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_178504

**ORF Size:** 9276 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\\_178504.4](#), [NP\\_848599.3](#)

**RefSeq ORF:** 9278 bp

**Locus ID:** 201625

**Cytogenetics:** 3p14.3

**MW:** 356.8 kDa

**Gene Summary:** Force generating protein of respiratory cilia. Produces force towards the minus ends of microtubules. Dynein has ATPase activity; the force-producing power stroke is thought to occur on release of ADP. Involved in sperm motility; implicated in sperm flagellar assembly (By similarity).[UniProtKB/Swiss-Prot Function]