

## Product datasheet for RC213544

### DNAH3 (NM\_017539) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DNAH3 (NM\_017539) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** DNAH3  
**Synonyms:** DNAHC3-B; DNAHC3B; HDHC8; HEL-36; HSADHC3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC213544 representing NM\_017539  
 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:**

>RC213544 representing NM\_017539  
Red=Cloning site Green=Tags(s)

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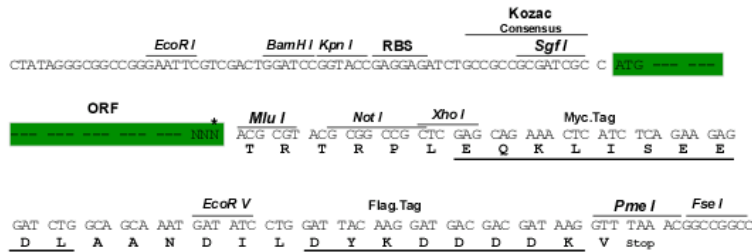
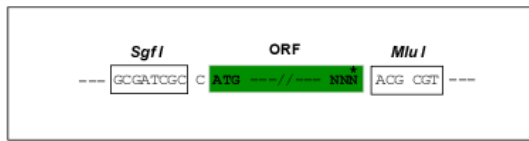
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 GKVPAMWAAKSYP SLKPLGGYVADLLARLTFQEWIDKGPVVFVWISGFYFTQSFLTGV SQNYARKYTIP  
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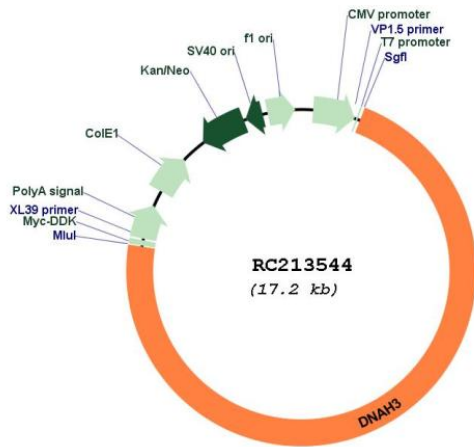
Restriction Sites:  
 Cloning Scheme:

Sgfl-MluI

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_017539

**ORF Size:** 12348 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](mailto: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\\_017539.1](#), [NP\\_060009.1](#)

RefSeq Size: 12351 bp

RefSeq ORF: 12351 bp

Locus ID: 55567

UniProt ID: [Q8TD57](#)

Cytogenetics: 16p12.3

Protein Pathways: Huntington's disease

MW: 470.6 kDa

**Gene Summary:** This gene belongs to the dynein family, whose members encode large proteins that are constituents of the microtubule-associated motor protein complex. This complex is composed of dynein heavy, intermediate and light chains, which can be axonemal or cytoplasmic. This protein is an axonemal dynein heavy chain. It is involved in producing force for ciliary beating by using energy from ATP hydrolysis. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Dec 2016]