

Product datasheet for **RG214214**

DNAH12 (NM_198564) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAH12 (NM_198564) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNAH12
Synonyms:	DHC3; DLP3; DLP12; DNAH7L; DNAH12L; DNAHC3; DNAHC12; DNHD2; HDHC3; HL-19; HL19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG214214 representing NM_198564
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGATGCAAACAAAGCTGCCATTGCAGCAGAAAAGGAAGCTCTGAAGTTACCCCCATTG
 TCCATCTCCAGAAAACATAGGCGTTGATACACCAACACAAAGTAAGCTGCTAAAATACAGAAGATCCAA
 GGAGCAGCAGCAGAAAATTAATCAGTTAGTAATTGATGGAGCCAAAAGAAATTTAGACAGAACTGGGT
 AAAAGAACACCTCTATTACCACCACCTGATTATCCTCAAATATGACCAGTGAAATGAAAAAAAAGGAT
 TCAACTATATTTATGAAGCAATGTGTAGAAAGTAGTCCTTTAGTACCTATTCAGCAGGAATGGCTGGA
 TCACATGTTAAGGCTGATACCTGAGTCTTTAAAGGAAGGAAAGAAAGAGAAGAATTCTTGAAAGTCTC
 ATAAATGAGGTGTCAAGTGACTTTGAAAACAGCATGAAGAGATATTTGGTGCAGAGCGTTCTTGAAAC
 CACCAGTTAAATCGCTTGAAGATGAAGGAGTCTTTACCTGAATCTCCTGTAGGCCTAGATTATTCTAA
 TCCTTGCCATTCTAGCTATGTGCAGGCAAGAAATCAAATATTCTCTAATTTGCACATTATTCATCCAAT
 ATGAAAATGTTACTGGACCTTGGTTATACAACATTTGCTGATACAGTTTTGTTGGACTTCACAGGAATTA
 GAGCTAAAGGTCCAATTGACTGTGAATCACTGAAAATGATCTATCAATACAAACTAGAAACGCAGAAGA
 GAAGATAATGAATACATGGTATCCAAAGGTTATAAATCTCTTTACCAAGAAGGAGGCACTAGAAGGTGTT
 AAACCTGAAAAATTGGATGCATTTTATAGCTGTGTTTCCACACTTATGTCAAATCAGCTAAAGGATCTAT
 TAAGGAGAACTGTAGAAGGATTTGTAAGTCTTTGACCCAAAAGATCAACAAAGGCTGCCAATATTTAA
 GATAGAATTGACATTTGATGACGACAAAATGGAATTTTATCCTACCTTTCAAGATTTGGAAGATAATGTC
 TTGAGTTTGGTGGAACGAATAGCCGAAGCTCTGCAGAATGTCAAACAATCCCTCTTGGCTATCAGGAA
 CTTCAACACCACTAAATCTTGACACAGAACTTCTGAACACGTGTTACACTGGGCTGTTGATACACTGAA
 GGCAGCAGTACATCGGAAGTTAGAAGGTGCAAGAAAGCATTATGAGACATATGTTGAAAAATATAATTGG
 CTCCTTGATGGGACTGCAGTTGAGAATATAGAGACTTTTCAGACAGAAGATCATACTTTTGATGAATATA
 CAGAGGAGCTGGATTGCTGGGTGATGGGAAGTGATTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

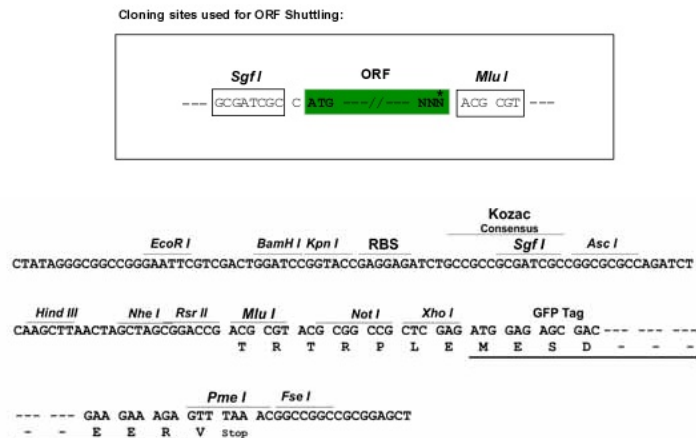
>RG214214 representing NM_198564
 Red=Cloning site Green=Tags(s)

MSDANKAAIAAEKEALNLKLPPIVHLPENIGVDTPTQSKLLKYRRSKEQQKINQLVIDGAKRNLDRTLG
 KRTPLPPPDYPQMTSEMKKGFNYIYMKQCVESPLVPIQQEWLDHMLRLIPESLKEGKEREEELLES
 INEVSSDFENSMKRYLVQSVLVKPPVKSLEDEGGPLPESPVGLDYSNPWHSSYVQARNQIFSNLHIIHPT
 MKMLLDLGYTTFADTVLLDFTGIRAKGPIDCESLKTDLSTQTRNAEEKIMNTWYPKVINLFTKKEALEGV
 KPEKLDAFYSCVSTLMSNQLKDLLRRTVEGFVKLFDPKDQQLPIFKIELTFDDDKMEFYPTFDLEDNV
 LSLVERIAEALQNVQTIPTSWLSGTSTPVNLDTELPEHVLHWAVDTLKAHVHRNLEGARKHYETIVEKYNW
 LLDGTAVENIETFQTEDHTFDEYTEELDCWVVWEVYF

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_198564

ORF Size: 1371 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_198564.3](#), [NP_940966.2](#)

RefSeq Size: 2051 bp

RefSeq ORF: 1374 bp

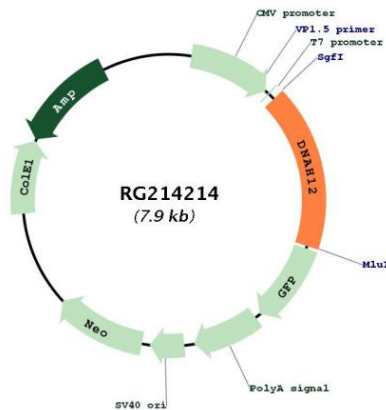
Locus ID: 201625

UniProt ID: [Q6ZR08](#)

Cytogenetics: 3p14.3

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]

Product images:


Circular map for RG214214