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# Product datasheet for SC307751

## DNAH12 (NM_198564) Human Untagged Clone

### Product data:

**Product Type:** Expression Plasmids

**Product Name:** DNAH12 (NM_198564) Human Untagged Clone

**Tag:** Tag Free

**Symbol:** DNAH12

**Synonyms:** DHC3; DLP3; DLP12; DNAH7L; DNAH12L; DNAHC3; DNAHC12; DNHD2; HDHC3; HL-19; HL19

**Vector:** pCMV6 series

**Fully Sequenced ORF:**

>NCBI ORF sequence for NM_198564, the custom clone sequence may differ by one or more nucleotides

ATGTCAGATGCAAACAAAGCTGCCATTGCAGCAGAAAAGGAAGCTCTGAACTTGAAGTTA
CCCCCCATTGTCCATCTCCCAGAAAACATAGGCGTTGATACACCAACACAAAGTAAGCTG
CTAAAATACAGAAGATCCAAGGAGCAGCAGCAGAAAATTAATCAGTTAGTAATTGATGGA
GCCAAAAGAAATTTAGACAGAACACTGGGTAAAAGAACACCTCTATTACCACCACCTGAT
TATCCTCAAACTATGACCAGTGAAATGAAAAAAAAAAGGATTCAACTATATTTATATGAAG
CAATGTGTAGAAAGTAGTCCTTTAGTACCTATTCAGCAGGAATGGCTGGATCACATGTTA
AGGCTGATACCTGAGTCTTTAAAGGAAGGGAAAGAAAGAGAAGAACTTCTTGAAAGTCTC
ATAAATGAGGTGTCAAGTGACTTTGAAAACAGCATGAAGAGATATTTGGTGCAGAGCGTT
CTTGTGAAACCACCAGTTAAATCGCTTGAAGATGAAGGAGGTCCTTTACCTGAATCTCCT
GTAGGCCTAGATTATTCTAATCCTTGGCATTCTAGCTATGTGCAGGCAAGAAATCAAATA
TTCTCTAATTTGCACATTATTCATCCAACTATGAAAATGTTACTGGACCTTGGTTATACA
ACATTTGCTGATACAGTTTTGTTGGACTTCACAGGAATTAGAGCTAAAGGTCCAATTGAC
TGTGAATCACTGAAAACTGATCTATCAATACAAACTAGAAACGCAGAAGAGAAGATAATG
AATACATGGTATCCAAAGGTTATAAATCTCTTTACCAAGAAGGAGGCACTAGAAGGTGTT
AAACCTGAAAAATTGGATGCATTTTATAGCTGTGTTTCCACACTTATGTCAAATCAGCTA
AAGGATCTATTAAGGAGAACTGTAGAAGGATTTGTAAAACTCTTTGACCCAAAAGATCAA
CAAAGGCTGCCAATATTTAAGATAGAATTGACATTTGATGACGACAAAATGGAATTTTAT
CCTACCTTTCAAGATTTGGAAGATAATGTCTTGAGTTTGGTGGAACGAATAGCCGAAGCT
CTGCAGAATGTCCAAACAATCCCCTCTTGGCTATCAGGAACTTCAACACCAGTAAATCTT
GACACAGAACTTCCTGAACACGTGTTACACTGGGCTGTTGATACACTGAAGGCAGCAGTA
CATCGGAACTTAGAAGGTGCAAGAAAGCATTATGAGACATATGTTGAAAAATATAATTGG
CTCCTTGATGGGACTGCAGTTGAGAATATAGAGACTTTTCAGACAGAAGATCATACTTTT
GATGAATATACAGAGGAGCTGGATTGCTGGGTGGTATGGGAAGTGTATTTTTAA

**Restriction Sites:** Please inquire

**ACCN:** NM_198564

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| **OTI Disclaimer:** | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| **OTI Annotation:** | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_198564.1, NP_940966.1 |
| **RefSeq Size:** | 2014 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]<br>Transcript Variant: This variant (2) lacks multiple 3' exons but has an alternate 3' exon, as compared to variant 3. The resulting isoform (2) is much shorter and has a different C-terminus, as compared to isoform 3. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments. |