

## Product datasheet for **SC303514**

### Dynein heavy chain (DNAH9) (NM\_004662) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dynein heavy chain (DNAH9) (NM_004662) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dynein heavy chain
Synonyms:	CILD40; DNAH17L; Dnahc9; DNEL1; DYH9; HL-20; HL20
Vector:	<u>pCMV6 series</u>



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_004662, the custom clone sequence may differ by one or more nucleotides

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ATGAACGACCTCAGCAAGATCCATCCAATGTACCAGTTTTCTCTCAAGGCCTTCAGTATC
GTCTTCCAGAAGGCTGTGGAGAGGGCTGCTCCTGACGAAAGCCTCAGGGAGCGGGTGGCC
AACCTAATAGACAGCATAACCTTCTCTGTGTACCAGTACACCATCCGCGGGCTCTTTGAG
TGTGATAAGCTGACCTACCTTGCCAGCTCACCTTTCAGATTCTCCTCATGAACCGAGAA
GTCAATGCAGTGGAGTTGGATTTCTGCTTCGATCTCCAGTGCAGACGGGCACCCGACG
CCCGTGGAGTTCCCTCTCCATCAGGCGTGGGGAGCTGTCAAGGTAATTTCAATGAA
GAATTCTTAATCTGGATCGGGACATAGAGGGATCTGCTAAGAGCTGGAAAAAGTTTGTG
GAGTCCGAATGTCTGAGAAAGAGAAGCTCCACAGGAGTGAAGAACAAGACAGCCCTG
CAGCGCTCTGCATGCTGAGAGCCATGCGGCCGACCGGATGACCTATGCTTTGCGAGAT
TTTGTGGAAGAGAAGTTAGGAAGCAAATACGTGGTGGGAAGGCCCTAGATTTTGCAACC
TCATTTGAAGAATCGGGACCAGCCACTCCTATGTTTTTCATCCTGTCTCCAGGGTGGAC
CCACTGAAGGATGTAGAAAGTCAAGGAAGAAAACCTGGATACACCTTCAACAATCAGAAC
TTTCACAACGTGCTTTTGGGCAAGGACAGGAAGTGGTGGCTGAGGCTGCCTGGACCTC
GCTGCCAAGAAAGGTCACCTGGGTTATTTGCAGAACATTCACCTGGTGGCCAAGTGGCTC
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TTCATGAGTGCAGAGCCAGCACCTCCCTGAGGGCCACATCATCCCCAGGGCATCCTG
GAGAACTCCATTAAGATCACAATGAGCCCCACGGGCATGCATGCCAACCTGCACAAG
GCCCTGGACAACCTCACTCAGGACACTTGGAGATGTGTTCTCGGGAGACGGAGTTAAG
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CCCCAGGGATGGAATCGCTCATACCCCTTAACTGGAGACCTCACTATCTCTGTAAT
GTCTCTACAACCTCCTGGAGGCCAAGCAAGGTCCTATGATGATTTGCGCTACCTG
TTTGGAGAGATCATGTATGGAGCCATATCACAGATGACTGGGACAGAAGACTCTGAG
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CTGCCCCAGAATCCCCCTACCTCTATGGCCTCCACCGAACGCAGAGATTGGCTTCTG
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GCCAGAGACGGAGCGGGCCACAAGAGAAGAAAAGTCAAGGCCTTCTGGAAGAAATA
TTGGAGCGGGTGACAGACGAGTTAATCCAGAACTGATGGCCAAAGTGGAGGAGCCG
ACCCCTTACATTGTAGTTGCCTCCAGGAGTGTGGCCGATGAATATCCTCACCAGAGAG
ATTGAGGCTCACTGAGGAGCTGGAGCTCGGCTTAAAGGGGAGCTGACTATGACCAGC
CACATGGAGAACTTACAGAATGCCCTGTAATTCGATATGGTGCCAGAGTCTGGGCTAGA
CGAGCCTACCTTCCACAGCAGGCTGGCAGCCTGGTTTCCAGACCTCCTCAACAGAATC
AAGGAGCTAGAGGCTTGGACGGGTGACTTTACAATGCCCTCCACTGTGTGGCTGACAGGC
TTCTTCAACCCCACTGCTTCTGACTGCCATCATGCAGTCCACGGCTCGCAAGAATGAG
TGGCCACTGGACCAGATGGCCCTGCAATGTGACATGACGAAGAAGAACAGAGAAGAGTTT
AGGAGTCTCTCGGGAAGGGCCCTACATCCATGGCCTTTCATGGAAGGTGCCTGCTGG
GACACACAGGCTGGGATCATTACAGAGGCAAAGCTGAAGGATCTGACACCCCTATGCT
GTGATGTTCAATCAAGGCCATTCTGCAGATAAGCAGGACTGCCGAGTGTCTATTCTGT
CCTGTGTACAAGACTAGTCAGCGGGACCCACCTACGTGTGGACTTTCAACCTGAAGACT
AAGGAAAACCCATCCAAGTGGGTTCTGGCTGGAGTAGCCTTGCTTCTCCAGATTTAG

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**Restriction Sites:** Please inquire

**ACCN:** NM\_004662

**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).

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_004662.1</a> , <a href="#">NP_004653.1</a>
<b>RefSeq Size:</b>	3163 bp
<b>RefSeq ORF:</b>	3147 bp
<b>Locus ID:</b>	1770
<b>UniProt ID:</b>	<a href="#">Q9NYC9</a>
<b>Cytogenetics:</b>	17p12
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>This gene encodes the heavy chain subunit of axonemal dynein, a large multi-subunit molecular motor. Axonemal dynein attaches to microtubules and hydrolyzes ATP to mediate the movement of cilia and flagella. The gene expresses at least two transcript variants; additional variants have been described, but their full length nature has not been determined. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) is the shorter transcript. It includes exons 56-70. Its 5' UTR differs from variant 2 since exon 56 is unique to variant 1. Its encoded protein, isoform 1, uses the same reading frame as isoform 2. This isoform is expressed specifically in testis.</p>