

## Product datasheet for **SC116544**

### Dynein light chain (DNAL4) (NM\_005740) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dynein light chain (DNAL4) (NM_005740) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dynein light chain
Synonyms:	MRMV3; PIG27
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116544 sequence for NM_005740 edited (data generated by NextGen Sequencing) ATGGGAGAAACAGAAGGGAAGAAAGATGAGGCTGATTATAAGCGACTGCAGACCTCCCT CTGGTCAGGCACTCGGACATGCCAGAGGAGATGCGCGTGGAGACCATGGAGCTATGTGTC ACAGCCTGTGAGAAATTCTCCAACAACAACGAGAGCGCCGCAAGATGATCAAAGAGACA ATGGACAAGAAGTTCGGCTCCTCCTGGCACGTGGTATCGGCGAGGGCTTTGGGTTTGAG ATCACCCACGAGGTGAAGAACCTCCTCTACCTGTACTTCGGGGGCACCCTGGCTGTGTGC GTCTGGAAGTGCTCCTGA  Clone variation with respect to NM_005740.2



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_005740 unedited</p> <pre> CCAACCTCTATAGGGCGGCCGGAATTCGGCACGAGGAGACTCTTGTTCGCTCCTT GACAACCTTGGCGGGGGTTTCGCTGGCTGCGGCCCGGCTCCGGCCCCCGCAGGAGCAGCA CCCCCGGGGAAAGACATTTTCTGCTCCACCCAGTGGCAGGGCCTGCTTCTGAATCT CCTGGGTGTGTCTTAAGTCCAGTCCCAGCACCTCCTGAAAGCCCCACTCTCCTCCAGTG GTCACAGTGGAAAGGATCATGGGAGAAACAGAAGGAAGAAAGATGAGGCTGATTATAAGC GACTGCAGACCTTCCCTCTGGTCAGGCACCTCGGACATGCCAGAGGAGATGCGCGTGGAGA CCATGGAGCTATGTGTACAGCCTGTGAGAAATTCTCCAACAACAACGAGAGCGCCGCCA AGATGATCAAAGAGACAATGGACAAGAAGTTTCGGCTCCTCCTGGCACGTGGTGATCGGCG AGGGCTNTGGGTTTGAGATCACCCACGAGGTGAAGAACCTTCTCTACCTGTACTTCGGGG GCACCCTGNCTGTGTGCGTCTGGAAGTGTCTCTGACACTCTGTCCCCTGCCCGTCCCCT GCAGGGCCTTTTCTGCCACTCATCTGGGGTGGAGAGCAGCCCTAGGCAGGTCTGGTTT TTTCAAGGAGAGNTAGGGTCTTTTCTTTGTCTTTGNGNACCAGTTTCTGACCCCGCC AGTGTGTGACTTGACATCTCCATCCCAGGCTCTAACTGTCTCCCTCGATCTTAAGGTGTG ACGGGGCAACGGCATGGTCTGGTGGGAACTGGGTGGGGCGTGTGACAGTATAGAAGTGG AAATAAATTTTCCCAGGACACCCATCCCCTTTTTCAGGCTGTCTCCTGGATCTGGAGCC CCTGCCTGCCTCCATTGTGCAAAATGTGGCCGCCTGCT </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_005740 unedited</p> <pre> CGGCCGTATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTCAGTTTTTGGTCATTTTAATT GTAAAAACAAAACATTTATATAAATAAGACCGCTGTGTAAAATACGATTACCCCTTCTA CTAAAACCTTTTCCCACACTCGGAAAAGAACATAGAAAACCCAGCAGAGAGCAGTACA AATCAGCATGCGGTCCCTGATGCGAAGTGCAGGGCAGGCCAGGGTTCCCTGCGGAAGCAG CCTCGTGGGGAGAGCACTCCTGCCAGGTGTCCACCAGAGGCTCGGGGACCCCTCGAGA AACTGCCAGGTAGCAGCTCCACACACCAGCCCTGGCTCTCAACTGTACGGGTGAGGA GGGGACGGGAAAGGCTGCTTGGTCCCCACCAAGGCTGGGGGCTGGGGGGCTGCTGGCCC AGTGAGATGCAGTGGTCTGTTGAGCCTGGGGTCAAGTTGGGGGAAGGGTTTCTGAGGGG TCAGCACCTCCCCAGAGGACAAGGAGAGAAGCTGCCTGTGTCCCTTGAAGAATCATCTC TTCTTTGGGGCATTTCATATGACCACTAATGACAAGGACGGCCGACACTTCCCAGGAG TACTGGGATGGCAGGGCACCGGGCTCCCAGGATGCAAGGGGAAGGCAGCCCTGGAGAA AGGGGGACTGGCGTGTTCCTGTGCGGAAGATCTCATCTCCACCTCCTTACCCTGTAC ACCGCCCCACCCACGNTGCCACACAGACCCATGCCCGCTGCCCGTACCCACCCTGAA ACTCCGAGGGAGACAGTCGAGAGCCTCGGGATGGAGATGTCAAGTTACACACTGGGCGTG GCTCAGAACTGGACACAAGACAAAAGAAAAGACCCAACTCTTTGGAAACCAGGACC GGCTAGGTTGCTCCCACCACAGAGTGCCGAAAGGCCCGGGCCGGCAGGGCCAATG CCGACCTTCCCACC </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005740
<b>Insert Size:</b>	1500 bp
<b>OTI Disclaimer:</b>	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>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).

**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\\_005740.2](#), [NP\\_005731.1](#)

**RefSeq Size:** 1504 bp

**RefSeq ORF:** 318 bp

**Locus ID:** 10126

**UniProt ID:** [O96015](#)

**Cytogenetics:** 22q13.1

**Domains:** Dynein\_light

**Protein Pathways:** Huntington's disease

**Gene Summary:** This gene encodes an axonemal dynein light chain which functions as a component of the outer dynein arms complex. This complex acts as the molecular motor that provides the force to move cilia in an ATP-dependent manner. The encoded protein is expressed in tissues with motile cilia or flagella and may be involved in the movement of sperm flagella. [provided by RefSeq, Dec 2014]