

Product datasheet for **SC111453**

DNAL1 (NM_031427) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAL1 (NM_031427) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNAL1
Synonyms:	C14orf168; CILD16; LC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111453 sequence for NM_031427 edited (data generated by NextGen Sequencing)

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ATGGCGAAAGCAACAACATCAAAGAAGCCTTAGCGAGATGGGAAGAGAAAAGTGGCCAG
AGGCCATCTGAAGCCAAAGAGATAAACTTTATGCCAGATTCCCCTATAGAGAAGATG
GATGCATCCTTGTCCATGCTTGCTAATTGCGAGAAGCTTCACTGTCTACAACTGCATT
GAAAAAATTGCCAACCTGAATGGCTTAAAAAAGTGGAGATATTCTTTAGGAAGAAAC
AACATAAAGAAGCTTAAATGGACTGGAGGCAGTAGGGGACACATTAGAAGAAGTGGGATC
TCCTACAATTTTATTGAGAAGTTGAAAGGGATCCACATAATGAAGAAATTGAAGATTCTC
TACATGTCTAATAACCTGGTAAAAGACTGGGCTGAGTTTGTGAAGCTGGCAGAACTGCCA
TGCCCTCGAAGACCTGGTGTGTTAGGCAATCCCTTGAAGAGAAACATTCTGCTGAGAAT
AACTGGATTGAAGAAGCAACCAAGAGAGTGCCCAAAGCTGAAAGCTGGATGGTACTCCA
GTAATTAAGGGGATGAGGAAGAAGACAATAA
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Clone variation with respect to NM_031427.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_031427 unedited TGTAATACGACTCACTATAGGGCGGCCGAATTCGGCACGAAGGAACACGCCGGTAATG GGCGAAAGCAACAACAATCAAAGAAGCCTTAGCGAGATGGGAAGAGAAAAGTGGCCAGAG GCCATCTGAAGCCAAAGAGATAAAAACCTTATGCCCAGATTCCCCCTATAGAGAAGATGGA TGCATCCTTGCCATGCTTGCTAATTGCGAGAAGCTTTCCTGTCTACAACTGCATTGA AAAAATGGCAACCTGAATGGCTTAAAAAAGCTTGGAGATATTATCTTTAGGAAGAAACAA CATAAAGAACTTAAATGGACTGGAGGCAGTAGGGGACACATTAGAAGAAGTGGGATCTC CTACAATTTTATCGAGAAGTTGAAAGGGATCCACATAATGAAGAAATTGAAGATTCTCTA CATGTCTAATAACCTGGTAAAAGACTGGGCTGAGTTTGTGAAGCTGGCAGAACTGCCATG CCTCGAAGACCTGGTGTGTAGGCAATCCCTTGAAGAGAAACATTCTGCTGAGAATAA CTGGATTGAAGAAGCAACCAAGAGAGTGCCCAAAGTAAAAAGCTGGATGGTACTCCAGT AATTAAGGGGATGAGGAAGAAGACCACTAATGCCACGCTTCCACTGTGTGTTAACCTT ATTTAAATGTCATAAGAACAATAGATAAATTTATCAATGGCTATTTTAAAGATTCTG GATGGGGACAAAAGTTTCTTAAGATAAAACAGATCACTTATTCTCATCTCTTTTTTACC TTTACCTAATTAACGGTCTTCCCAAAGTGGGATGGCAACCTATTTATCCATTGCTC TCTTTAAAAAACACAAATTTGAATTTTGTTCACATCCATTTCTGACCGGGTACCCCA TACTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_031427 unedited GCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTAAAAATATGGAGTCTCGCTCTA TTGCCCAGGCTGGAGTGAATGGCGCAACCTCGGCTCACTGCAACCTCCGCCTCCCGGT TCAAATGATTCTCCTGCCTCAGCCTCCCGAGTAGTTGGGACTACAGGCGCCACCACCAG GACTGGCCAATTTTTGTATTTTGTAGTAGACGGGGTCCACCATGTTGGTCAGGCTGGT CTTGAACCTCTGATCTCAGATGATCCGCCCGCCTCGGCCTCCCAAAGTCTGGGATGACA GGCATGAGCCACCACGCCTGGCCTCTTGTATTTAGAGTTGATTGTCAAAGCAGTGG TCCCTTTTGATCAGAGTACCTTAGAAAAATCAAGTAATTCCTATGTAAATGATAGCTGAA ATCTTCTGAAACCCAGGACTACTTATGCAATCACTTTTTAAAGATGATTCTCCCTCTTT CACTGTGATTTTATGCAAGTAAAATCACACAAGTAGATGGGGAAACCAGAATCAACAGTC TCTGAGGGACTTTACGCACAATTTGGCAGAGGGCCCTGACTTCTTTTTGCATTTAATA GGGATCCAACCTGGNCTCCTATGACCTTATTTGGTACTGACTACAATGGTCTTACATC TTCTGGGAAGAATTTTTGTCTACATGATAAATTAACCTTCCCTTAACTATTGTCTCT GCACATTTAGGTTAAATACCCTCCCCTGTCTTTGTTGCGAGACATCCTTACACCAATTTG CCCTCTGCCTGGGAACCTCTATGAAAACCTCCCCTTTCCCTTCAACAACAGTCTACAA TCATTTTAAAAGCCGGTTCACCTAAAACTCCACAATAACTTTTTGCACACTATGTCTC TTTATCCCTTTCTCAACAGTGGCATAACCTTTCCATACCGGGGGTCCCTCACCCCTC CGCGGTATTTGACATCTCCCGGCCCTCCTCATCTATGGACTTAATTCTTCATGTTCCA ACCCCGCGGACCTTAACACCATGGGCTTAGCGCAGCG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_031427
Insert Size:	2740 bp
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).
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_031427.1](#), [NP_113615.1](#)

RefSeq Size: 1191 bp

RefSeq ORF: 456 bp

Locus ID: 83544

UniProt ID: [Q4LDG9](#)

Cytogenetics: 14q24.3

Domains: LRR, LRR_SD22

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. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Jan 2011]
Transcript Variant: This variant (1) encodes the longer isoform (1). 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.