

Product datasheet for **SC107912**

Dynein intermediate chain 1 (DNAI1) (NM_012144) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dynein intermediate chain 1 (DNAI1) (NM_012144) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dynein intermediate chain 1
Synonyms:	CILD1; DIC1; ICS1; PCD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_012144, the custom clone sequence may differ by one or more nucleotides

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ATGATTCTGCTTCTGCGAAGGCTCCCCATAAACAGCCTCATAAGCAGAGCATCAGCATAGGCAGAGGAA
CCAGGAAGAGAGATGAAGATTGAGGACTGAAGTGGGAGAAGGCACAGATGAATGGGCCCAATCCAAGC
CACAGTTAGACCCCTGACCAGCTGGAGTTGACCGATGCGGAGTTAAAGGAGGAGTTCACCTCGGATTTG
ACAGCCAAACAACCCACACGCACCCAGAACATTGTCAGGTACAGCTTCAAAGAAGGCACATATAAGCCTA
TTGGCTTTGTGAACCAACTGGCAGTTCACTACACCCAGGTTGGGAACCTGATCCCCAAAGACTCAGATGA
AGGACGGCGGCAGCATTACCGCATGAATTAGTGGCAGGTTCTCAGGAGTCTGTCAAGGTGATTTAGAA
ACAGGAAACCTCGAAGAAGACGAAGAGCCCAAGGAGTTAGAACTGAGCCTGGGAGTCAAACAGATGTGC
CTGCAGCTGGGGCAGCTGAAAAAGTGACTGAAGAAGAATTGATGACTCCTAAGCAGCCCAAGGAGAGAA
GCTCACTAACCAGTTCACCTTCAGTGAGAGGGCCTCACAGACCTACAACAACCCTGTCCGGGATCGAGAA
TGCCAGACGGAGCCTCCTCCAGGACAACTTTTCAGCCACAGCCAATCAGTGGGAGATCTATGATGCCT
ATGTAGAGGAAC TTGAGAAGCAGGAAAAGACCAAAGAGAAGGAGAAGGCAAAGACCCAGTGGCTAAAAA
ATCAGGGAAGATGGCCATGAGGAAGCTGACATCTATGGAGTCTCAGACTGATGATCTCATAAATTTGCC
CAAGCTGCTAAGATCATGGAGCGGATGGTCAACCAAGAAATACATATGATGACATTGCTCAAGATTTAAGT
ACTATGACGATGCTGCTGATGAATACCGGGACCAGGTGGGTACCTGCTGCCGCTCTGGAAGTTCCAAAA
TGACAAAGCCAAGCGCCTGTCCGTCACTGCCCTCTGCTGGAATCCAAAGTACAGGGATCTGTTTGCAGTG
GGATATGGCTCTTATGACTTCATGAAGCAGAGCCGGGGCATGCTGCTGCTCTACAGCCTGAAGAACCCCA
GCTTCCCTGAGTACATGTTGAGCAGCAACAGCGGCGTATGTGTCTCGACATCCAGTGGACCACCCCTA
CCTGGTGGCAGTAGGCCACTATGACGGCAACGTGGCCATTTACAACCTCAAGAAGCCCACTCCCAGCCC
TCCTTCTGCAGCTCAGCCAAGTCTGGCAAGCACTCAGACCCCTGTGTGGCAGGTCAAGTGGCAGAGATG
ACATGGACCAAAAACCTTAACTTCTCTGTGTGTCATCTGACGGCAGGATTGTGTCTTGGACTCTCGTGA
GAGAAAGCTGGTTCACATAGATGTCATCAAGCTGAAGGTGGAAGGCAGCACCCACGGAAGTTCCTGAGGG
TTGCAGCTGCACCCAGTGGGTTGTGGCACTGCCTTTGACTTCCACAAAGAGATTGACTACATGTTCTAG
TGGGCACAGAGGAGGAAAAATCTACAAGTGTCTAAATCCTACTCCAGCCAATTCCTCGACACCTATGA
CGCCACAACATGTCAGTGGACTGTGTCTGGAACCCATACCACACCAAGGTCTTCATGCTCTGCAGC
TCCGACTGGACAGTGAAGATCTGGGACCACACCATCAAGACCCGATGTTATCTATGACCTGAAGTCAAG
CCGTGGTGTGATGTGGCCTGGGCGCCATACTCTTCTACTGTGTTCCGAGCAGTACCACAGATGGGAAGG
CCACATATTTGACTTAGCCATCAACAAGTATGAGGCCATCTGCAACCAGCCTGTGGCGGCAAAAAGAAC
AGGCTCACCCACGTGCAGTTCAATCTCATCCACCCCATCATCATTGTGGGCGATGACCGTGGGCACATCA
TCAGCCTCAAGCTCTCACCAATTTGCGCAAGATGCCAAAGGAAAAGAAGGGGCAGGAGGTGCAGAAAGG
TCCAGCTGTGGAGATTGCGAAACTGGACAACTGCTGAACCTGGTGGGGAAGTAAAAATCAAGACCTGA
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_012144 unedited
TTTGTATACGACTCACTATAGGGCGGCCGATTTCGGCACGAGGGACGGCTGTCCCTAAG
AACCGTTGCGACTGGTAACTGAAGTGAAGAGAGTCCAGATTTCTGTGTGGTCAAGG
AGACGGACAAACTTTTTGTCTTACAGCAGGGAGCGTTTTGTAGGCTCTCCAGGNGTTG
AGATGATTCCTGCTTCTGCGAAGGCTCCCCATAAACAGCCTCATAAGCAGAGCATCAGCA
TAGGCAGAGGAACCAGGAAGAGAGATGAAGATTGAGGACTGAAGTGGGAGAAGGCACAG
ATGAATGGGCCAATCCAAGCCACAGTTAGACCCCTGACCAGCTGGAGTTGACCGATG
CGGAGTTAAAGGAGGAGTTCACCTCGGATTTTACAGCCAACAACCCACACGCACCCANA
ACATTGTCAGGTACAGCTTCAAAAAGCAATGGAGTCTGGGTTTCATTCTAAACTGAAGA
GGAAGATCCCAGTCACTACTGGGACAAGATGAAGGTGAAATCTCCACTGAAACTGTAA
GGTAATTTATTCCTTGGGAATCTTCTTCTCAAAATATTTCTCTTTTTTTGGACCTTT
TTTTTGANCTTTTTCTGTGCGATCTCTGGGTTACTTGGTCTGTTTTGTTTTCTT
GCCTTTCTTGCCCTCCTNNNCTCCCCCCCCCGCCCTCCTGGCGTCTTTGNTTTTT
CTTTTTTCTTCTGTTTCTCCCCCCCCCTTGTGCCCCCTCTTTTCCGGCTGCC
CCCGCCGGTGTNTTCCGCTCGGTTCCCCCCCCCGCCGNTCTTTCTGCCCGCTC
TTTNGTGGTTATTTGTTGTTNGNNGTGTGTGGCNGTCGACGGATCGAAAAA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_012144 unedited CCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTGGGTTTCTACACAGGTTTATTTGT GCAAAGTTAGAGGGGTAATGGTGGTTGAAGACCAAGTCCTGGGGTAAGGTGCTGGGACCT TAAGGAACAGAACAAGAAGGGAAGATGCTGGGACCTGATCAGGAGTGGGGTCACATGCTG GGTGCTAAGGCTGGGCTGGGTACCAGGGTCAAGCCCTAGGAGTACTGTATTCAAGCGATG GGACAGAGACTGAGGCCAGCCCCCAGGTCTTGATTTTCACTTCCCTCACCAGGTTCCAGC AGTTTGTCCAGTTTCGCAATCTCCACAGCTGGACCCCTTCTGCACCTTCTGCCCTTCTTT TCCTTTGGCATCTTGCAGAAATTGGGTGAGAGCTTGAGGCTGATGATGTGCCACGGTCA TCGCCCCAATGATGATGGGGTGGATGAGATTGAACTGCACGTGGGTGAGCCTGTCTTT TTGCCCGCACAGGCTGGTTGCAGATGGGCTCATACTTGCTGATGGCTAAGTACATATGTG GGCCTTCCATTTGGGTGACTGCTGTGAACACAGTAAAGACATGGCGCCAGCCACATTA CCCAGGGTGAGTTACGCCATAGATAACCTCCGGTTTTGATGTTTCGGCCACATCTTATTG TCCACTCGACCCGAGACTTGACACCTTGTGTGTTGGGTTTTAGAACCCGGCTCACTGACG TTTGGGCCGTTACGGGTCGACCCCGTGTGATTTAAATCCCGCCCTTCTCGTCCCTTTCTTC CTCCCTTCCCTTTTTCCCTTTCTACCCCTTTTCTCCCTCCCTCCCTCCCTTTTCCCT CTCTCCTTTTCTTCCCCCTTCCCCCTCCCCCTTCTTCTTCTTCTCTCCCTCTC CTCTCCCTTCTCCCCACCTTCTCTCCC
Restriction Sites:	NotI-NotI
ACCN:	NM_012144
Insert Size:	3520 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:	<ol style="list-style-type: none"> 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_012144.2 , NP_036276.1
RefSeq Size:	2548 bp
RefSeq ORF:	2100 bp
Locus ID:	27019
UniProt ID:	Q9UI46
Cytogenetics:	9p13.3
Domains:	WD40

Protein Families: Druggable Genome

Protein Pathways: Huntington's disease

Gene Summary: This gene encodes a member of the dynein intermediate chain family. The encoded protein is part of the dynein complex in respiratory cilia. The inner- and outer-arm dyneins, which bridge between the doublet microtubules in axonemes, are the force-generating proteins responsible for the sliding movement in axonemes. The intermediate and light chains, thought to form the base of the dynein arm, help mediate attachment and may also participate in regulating dynein activity. Mutations in this gene result in abnormal ciliary ultrastructure and function associated with primary ciliary dyskinesia and Kartagener syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
Transcript Variant: This variant (1) encodes isoform 1.