

Product datasheet for **SC337252**

Dynein intermediate chain 1 (DNAI1) (NM_001281428) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dynein intermediate chain 1 (DNAI1) (NM_001281428) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNAI1
Synonyms:	CILD1; DIC1; ICS1; PCD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001281428, the custom clone sequence may differ by one or more nucleotides

```

ATGATTCCTGCTTCTGCGAAGGCTCCCCATAAACAGCCTCATAAGCAGAGCATCAGCATAGGCAGAGGAA
CCAGGAAGAGAGATGAAGATTACAGGACTGAAGTGGGAGAAGGCACAGATGAATGGGCCAATCCAAGC
CACAGTTAGACCCCTGACCAGCTGGAGTTGACCGATGCGGAGTTAAAGGAGGAGTTCACCTCGATTTTG
ACAGCCAACAACCACACGCACCCAGAACATTGTCAGGTACAGCTTCAAAGAAGGCACATATAAGCCTA
TTGGCTTTGTGAACCAACTGGCAGTTCACTACACCCAGGTTGGGAACCTGATCCCCAAAGACTCAGATGA
AGGACGGCGGCAGCATTACCGCATGAATTAGTGGCAGTATCCTACCAAGTTCTCAGGAGTCTGTCAAG
GTGATTTCAGAAACAGGAAACCTCGAAGAAGACGAAGAGCCCAAGGAGTTAGAACTGAGCCTGGGAGTC
AAACAGATGTGCCTGCAGCTGGGCAGCTGAAAAAGTACTGAAGAAGAATTGATGACTCCTAAGCAGCC
CAAGGAGAGAAAGCTCACTAACCAGTTCACCTCAGTGAAGAGGCTCACAGACCTACAACAACCTGTC
CGGGATCGAGAATGCCAGACGGAGCCTCCTCCAGGACAACTTTTCAGCCACAGCCAATCAGTGGGAGA
TCTATGATGCCTATGTAGAGGAACCTGAGAAGCAGGAAAAGACCAAAGAGAAGGAGAAGGCAAAGACCC
AGTGGCTAAAAATCAGGGAAGATGGCCATGAGGAAGCTGACATCTATGGAGTCTCAGACTGATGATCTC
ATCAAATTGTCCCAAGCTGCTAAGATCATGGAGCGGATGGTCAACCAGAATACATATGATGACATTGCTC
AAGATTTAAGTACTATGACGATGCTGCTGATGAATACCGGGACCAGGTGGGTACCCTGCTGCCGCTCTG
GAAGTTCCAAAATGACAAAGCCAAGCGCTGTCCGTCACCTCTGCTGGAATCCAAAGTACAGGGAT
CTGTTTGCAGTGGGATATGGCTCTTATGACTTCATGAAGCAGAGCCGGGGCATGCTGCTGCTACAGCC
TGAAGAACCCAGCTTCCCTGAGTACATGTTTACAGCAGAACAGCGGCGTCATGTGTCTCGACATCCAGT
GGACCCCTACCTGGTGGCAGTAGGCCACTATGACGGCAACGTGGCCATTTACAACCTCAAGAAGCCC
CACTCCCAGCCCTCCTTCTGCAGCTCAGCCAAGTCTGGCAAGCACTCAGACCCCTGTGTGGCAGTCAAGT
GGCAGAAGGATGACATGGACAAAACCTTAACTTCTTCTGTGTCTGACGGCAGGATTGTGTCTTG
GACTCTCGTGAAGAGAAAGCTGGTTCACATAGATGTCATCAAGCTGAAGGTGGAAGGCAGCACCACGGAA
GTTCTGAGGGGTTGCAGCTGCACCCAGTGGGTTGTGGCACTGCCTTTGACTTCCACAAAGAGATTGACT
ACATGTTCTAGTGGGCACAGAGGAGGAAAAATCTACAAGTGTCTAAATCCTACTCCAGCCAATTCTCT
CGACACCTATGACGCCACAACATGTCAGTGGACACTGTGCTGGAACCCATACCACACCAAGGTCTTC
ATGTCCTGCAGCTCCGACTGGACAGTGAAGATCTGGGACCACACCATCAAGACCCCGATGTTTCATCTATG
ACCTGAACTCAGCCGTGGGTGATGTGGCCTGGGCGCCATACTCTTCTACTGTGTTTCGAGCAGTACCAC
AGATGGGAAGGCCACATATTTGACTTAGCCATCAACAAGTATGAGGCCATCTGCAACCAGCCTGTGGCG
GCCAAAAAGAACAGGCTACCCACGTGCAGTTCATCTCATCCACCCATCATCATTGTGGCGATGACC
GTGGGCACATCATCAGCCTCAAGCTCTACCCAATTTGCGCAAGATGCCAAAGGAAAAGAAGGGCAGGA
GGTGCAGAAGGGTCCAGCTGTGGAGATTGCGAACTGGACAACTGCTGAACCTGGTGAGGGAAGTGAAA
ATCAAGACCTGA
    
```

Restriction Sites: SgfI-MluI

ACCN: NM_001281428

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_001281428.1](#), [NP_001268357.1](#)

RefSeq Size: 2605 bp

RefSeq ORF: 2112 bp

Locus ID: 27019

UniProt ID: [Q9UI46](#)

Cytogenetics: 9p13.3

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 (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1. The encoded isoform (2) is longer, compared to isoform 1.