

Product datasheet for **SC328959**

Dynein intermediate chain 2 (DNAI2) (NM_001172810) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dynein intermediate chain 2 (DNAI2) (NM_001172810) Human Untagged Clone
Tag:	Tag Free
Symbol:	DNAI2
Synonyms:	CILD9; DIC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001172810, the custom clone sequence may differ by one or more nucleotides

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ATGGAGATTGTGTACGTGTACGTCAAGAAGCGCAGCGAGTTCGGGAAGCAGTGCAATTTCTCGGACC GCCAGGCCGAGCTGAACATCGACATCATGCCAACCCCTGAGCTGGCCGAGCAGTTCGTGGAGCGGAACCCAGTGGACACGGGCATCCAGTGCATCAGCATGTCCGGAACACGAGGCCAACTCAGAGCGGTTTGAGATGGAGACCCGGGGAGTTAACCATGTCGAGGGGGGCTGGCCCAAGGACGTGAACCCCTGGAGCTGGAGCAGACCATCCGTTTCCGGAAGAAGTGGAGAAAGATGAGAACTACGTAAACGCCATCATGCAGCTCGGCTCTATCATGGAGCACTGCATCAAGCAGAACAATGCCATTGACATCTATGAAGAGTATTTCAATGACGAGGAGGCCATGGAAGTGATGGAGGAGACCCTTCAGCTAAAACCATCAATGTGTTCCAGGGACCCCAAGAAATCAAGAGGGCTGCCACACACCTCTCCTGGCACCCCGATGGCAACAGGAAGTTGGCAGTGGCATACTCTGCTTGATTTTCAGCGGGCACCTGTGGGCATGAGCAGCGATTTCATACATCTGGGACCTGGAAAACCCCAACAAGCCTGAACTTGTCTGAAGCCATCGTCTCCACTCGTACGTTGGAGTTCAACCCAAAGATTCACACGTA CTCTGGGTGGTGTCTACAATGGACAGATAGCCTGCTGGGACACCCGAAAGGGCAGCCTGGTGGCGGAGCTATCCACCATTGAGTCCAGCCACCAGACCTGTGTATGGACCATCTGGCTGCAGTCGAAGACGGGCACCGAGTGCCTCAGCTTCCACGGATGGGCAGGTCATGTGGTGGGACATCCGAAAGATGAGCGAGCCACTGAAGTTGTGATCTTGGACATCACCAAGAAGGAACAGTTGGAAAATGCCTTGGGGGCCATCTCCCTGGAGTTTGAATCTACTTTGCCACCAAGTTTCATGGTGGGGACCGAGCAGGGCATCGTCATCTCCTGCAACCGCAAGGCCAAGACGTACAGTGAAAAGATTGTGTGCACCTTCCGGGCCATCATGGCCCCATCTACGCCCTCCAGAGAAACCCCTTACCCGAAGAAGTTCCTGACGGTTGGCGACTGGACAGCCCGCATTGGTCTGAAGACAGCCGGGAATCGTCCATCATGTGGACCAAGTACCACATGGCTTACCTCACTGATGCTGCCTGGAGCCCGTGGAGCCGACCGTTTTCTTTACCACCAGGATGGACGGAACCCCTGGATATCTGGGACTTCATGTTTCGAGCAGTGCGATCCCACCCTCAGCTTGAAGGACAATGGGTGTCTCATCGCTGCGGCTCCAGCTGGGGACAACCACCCTGCTGGAGTCTCGCCTGGGCTCTACCTCCAGAGGAATGAGAAGAAGTAGCCTCTTCCATGTTTGAGCGTGAGACCCGGCGAGAGAAGATCCTGGAGGCCAGGCACCCGGGAGATGCGGCTGAAGGAGAAGGGTAAGGCGGAGGGCAGGGATGAGGAGCAGACCGATGAGGAGCTGGCCGTAGACCTGGAGGCGCTGGTCAGCAAGGCCGAGGAGGAGTTCTTGCACATCATCTTCGAGAGCTGAAGAAGAAGGAGGCAGACCCATAAAGCTGACGCCAGTCCCTCAGCAACCAAGTCCAGAAGAAGACCAGGTGGTGGAGGAGGGAGGAAGCAGCGGGGAAGAAGGGGATGAAGAAGTGAAGAAGACTTAGCCTAG

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- Restriction Sites:** Please inquire
- ACCN:** NM_001172810
- 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).
- OTI Annotation:** 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.
- 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_001172810.1](#), [NP_001166281.1](#)

RefSeq Size: 2255 bp

RefSeq ORF: 1782 bp

Locus ID: 64446

UniProt ID: [Q9GZS0](#)

Cytogenetics: 17q25.1

Protein Pathways: Huntington's disease

Gene Summary: The protein encoded by this gene belongs to the dynein intermediate chain family, and is part of the dynein complex of respiratory cilia and sperm flagella. Mutations in this gene are associated with primary ciliary dyskinesia type 9. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Mar 2010]
Transcript Variant: This variant (2) uses different acceptor splice sites in the 5' non-coding and the coding regions compared to variant 1. However, it maintains the reading frame, and encodes a shorter isoform (2) missing an internal protein segment compared to isoform 1.