

# Recombinant Full Length Human DNAI1 Protein, GST-tagged

**Cat. No.** DNAI1-4050HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human DNAI1 full-length ORF ( AAH30583, 1 a.a. - 699 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 699 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | 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] |
| <b>Molecular Mass</b>   | 102.63 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MIPASAKSPHKQPHKQSSISIGRGTRKRDEDSGTEVGEGTDEWAQSKATVRPPDQLE<br>LTDAELKEEFTRILTANNPHAPQNIVRYSFKEGTYKPIGFVNQLAVHYTQVGNLIPKD<br>SDEGRRQHYRDELVAGSQESVKVISETGNLEEDEEPKELETEPGSQTDVPAAGAAE<br>KVTEEEELMTPKQPKERKLTNQFNFSERASQTCNNPVRDRECQTEPPPRTNFSATAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

QWEIYDAYVEELEKQEKTKEKEKAKTPVAKKSGKMAMRKLTSMESQTDDLKLSQA  
 AKIMERMVNQNTYDDIAQDFKYDDAADEYRDQVGTLLPLWKFNQNDKAKRLSVTAL  
 CWNPKYRDLFAVGYSYDFMKQSRGMLLLYSLKNPSFPEYMFSSNSGVMCLDIHV  
 DHPYLVAVGHYDGNVAIYNLKKPHSQPSFCSSAKSGKHSDPVWQVKWQKDDMDQ  
 NLNFFSVSSDGRIVSWTLVKRKLVIDVIKLVKVEGSTTEVPEGLQLHQVGCCTAFDF  
 HKEIDYMLVLGTEEGKIYKCSKSYSSQFLDTYDAHNMSVDTVSWNPYHTKVFMSCS  
 SDWTVKIWDHTIKTPMFIYDLNSAVGDVAWAPYSSTVFAAVTTDGKAHIFDLAINKYE  
 AICNQPVAACKNRLTHVQFNLIHPHIIIVGDDRGIISLKLSPNLRKMPKEKKKGQEVQKG  
 PAVEIAKLDKLLNLVREVKIKT

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

DNAI1 dynein, axonemal, intermediate chain 1 [ Homo sapiens ]

**Official Symbol**

DNAI1

**Synonyms**

DNAI1; dynein, axonemal, intermediate chain 1; dynein, axonemal, intermediate polypeptide 1; dynein intermediate chain 1, axonemal; CILD1; PCD; immotile cilia syndrome 1; dynein intermediate chain DNAI1; axonemal dynein intermediate chain 1; ICS; ICS1; MGC26204;

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|                |           |
|----------------|-----------|
| Gene ID        | 27019     |
| mRNA Refseq    | NM_012144 |
| Protein Refseq | NP_036276 |
| MIM            | 604366    |
| UniProt ID     | Q9UI46    |

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