

Product datasheet for **RG205242**

Dynein intermediate chain 1 (DNAI1) (NM_012144) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dynein intermediate chain 1 (DNAI1) (NM_012144) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dynein intermediate chain 1
Synonyms:	CILD1; DIC1; ICS1; PCD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG205242 representing NM_012144
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATTCTGCTTCTGCGAAGTCTCCCCATAAACAGCCTCATAAGCAGAGCATCAGCATAGGCAGAGGAA
 CCAGGAAGAGAGATGAAGATTCAGGGACTGAAGTGGGAGAAGGCACAGATGAATGGGCCCAATCCAAAGC
 CACAGTTAGACCCCTGACCAGCTGGAGTTGACCGATGCGGAGTTAAAGGAGGAGTTCACCTCGGATTTTG
 ACAGCCAAACAACCCACACGCACCCAGAACATTGTGAGGTACAGCTTCAAAGAAGGCACATATAAGCCTA
 TTGGCTTTGTGAACCAACTGGCAGTTCACTACACCCAGTTGGGAACCTGATCCCCAAAGACTCAGATGA
 AGGACGGCGGCAGCATTACCGCATGAATTAGTGGCAGTTCTCAGGAGTCTGTCAAGGTGATTTTCAGAA
 ACAGGAAACCTCGAAGAAGACGAAGAGCCCAAGGAGTTAGAACTGAGCCTGGGAGTCAAACAGATGTGC
 CTGCAGCTGGGGCAGCTGAAAAAGTGACTGAAGAAGAATTGATGACTCCTAAGCAGCCCAAGGAGAGAAA
 GCTCACTAACAGTTCACCTTCAGTGAGAGGGCCTCACAGACCTGCAACAACCTGTCCGGGATCGAGAA
 TGCCAGACGGAGCTCCTCCAGGACAACTTTTCAGCCACAGCCAATCAGTGGGAGATCTATGATGCCCT
 ATGTAGAGGAACTTGAGAAGCAGGAAAAGACCAAGAGAAGGAGAAGGCAAGACCCAGTGGCTAAAAA
 ATCAGGGAAGATGGCCATGAGGAAGCTGACATCTATGGAGTCTCAGACTGATGATCTCATCAAATTTGTC
 CAAGCTGCTAAGATCATGGAGCGGATGGTCAACCAAGATACATATGATGACATTGCTCAAGATTTAAGT
 ACTATGACGATGCTGCTGATGAATACCGGGACCAGGTGGGTACCTGCTGCCGCTCTGGAAGTCCAAAA
 TGCAAAGCCAAGCGCTGTCCGTCAGTCCCTCTGCTGGAATCCAAAGTACAGGGATCTGTTTGCAGTG
 GGATATGGCTCTTATGACTTCATGAAGCAGAGCCGGGCATGCTGCTCTACAGCCTGAAGAACCCCA
 GCTTCCCTGAGTACATGTTTCAGCAGCAACAGCGGCTCATGTGTCTCGACATCCAGTGGACCACCCCTA
 CCTGGTGGCAGTAGGCCACTATGACGGCAACGTGGCCATTTACAACCTCAAGAAGCCCACTCCAGGCC
 TCCTTCTGCAGCTCAGCCAAGTCTGGCAAGCACTCAGACCCTGTGTGGCAGGTAAGTGGCAGAAGGATG
 ACATGGACCAAAACCTTAACCTTCTCTGTGTCTGACGGCAGGATTGTGTCTTGGACTCTCGTGAA
 GAGAAAGCTGGTTCACATAGATGTCATCAAGCTGAAGGTGGAAGGCAGCACCCAGGAAGTTCCTGAGGG
 TTGCAGCTGCACCAAGTGGTGTGGCACTGCCTTTGACTTCCACAAAGAGATTGACTACATGTTCTTAG
 TGGGCACAGAGGAGGAAAAATCTACAAGTGTCTAAATCCTACTCCAGCCAATTCCTCGACACCTATGA
 CGCCACAACATGTCAGTGGACTGTGTCTGGAACCCATACCACCAAGGTCTTCATGCTCCTGCAGC
 TCCGACTGGACAGTGAAGATCTGGGACCACCCATCAAGACCCCGATGTTTCATCTATGACCTGAACTCAG
 CCGTGGGTGATGTGGCCTGGGCGCCATACTCTTCTACTGTGTTTCGACAGTACCACAGATGGGAAGGC
 CCACATATTTGACTTAGCCATCAACAAGTATGAGGCCATCTGCAACCAGCCTGTGGCGGCCAAAAAGAAC
 AGGCTCACCCACGTGCAGTTCAATCTCATCCACCCATCATATTGTGGGCGATGACCGTGGGCACATCA
 TCAGCCTCAAGCTCTACCCAAATTTGCGCAAGATGCCAAAGGAAAAGAAGGGGCAGGAGGTGCAGAAGGG
 TCCAGCTGTGGAGATTGCGAAACTGGACAACTGCTGAACCTGGTGAAGGAAAGTAAAATCAAGACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG205242 representing NM_012144
 Red=Cloning site Green=Tags(s)

MIPASAKSPHKQPHKQSIISIGRGRTRKREDESGTEVGEGETDEWAQSKATVRPPDQLELTD AELKEEFTRIL
 TANNPHAPQNIIVRYSFKEGTYKPIGFVNQLAVHYTQVGNLIPKDSDEGRRQHYRDELVAGSQESVKVISE
 TGNLEEDEEPKELETEPGSQTDVPAAGAAEKVTEELMTPKQPKERKLTNQFNFSERASQTCNNPVRDRE
 CQTEPPPRTNFSATANQWEIYDAYVEELEKQEKTEKEKAKTPVAKKSGKMAMRKLTSMESQTDDLIKLS
 QAAKIMERMVNQNTYDDIAQDFKYDDAADEYRDQVGTLLPLWKFQNDKAKRLSVTALCWNPKYRDLFAV
 GYGSYDFMKQSRGMLLLYSLKNPSFPEYMFSSNSGMCLDIHVDHPYLVAVGHYDGNVAIYNLKKPHSQP
 SFCSSAKSGKHSDPVWQVKWQKDDMDQNLNFFSVSSDGRIVSWTLVKRKLVIHIDVIKLVKVEGSTTEVPEG
 LQLHQVGCCTAFDFHKEIDYMFVLVGTTEGKIYKCSKSYSSQFLDLYDAHNMSVDTVSWNPYHTKVFMSCS
 SDWTVKIWDHTIKTPMFIYDLNSAVGDVAWAPYSSTVFAAVTTDGAHIFDLAINKYEAICNQPVAAKKN
 RLTHVQFNLIHPIIIVGDDRGHIIISLKLSPNLKMPKEKKQEVQKGPAVEIAKLDKLLNLVREVIKT

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_012144

ORF Size: 2097 bp

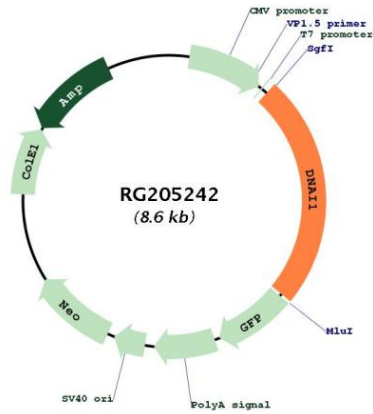
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<p>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]</p>

Product images:



Circular map for RG205242