

Product datasheet for **RG239358**

Dynein intermediate chain 1 (DNAI1) (NM_001281428) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dynein intermediate chain 1 (DNAI1) (NM_001281428) 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)



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**ORF Nucleotide
Sequence:**

>RG239358 representing NM_001281428.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATTCCTGCTTCTGCGAAGGCTCCCCATAAACAGCCTCATAAGCAGAGCATCAGCATAGGCAGAGGA
ACCAGGAAGAGAGATGAAGATTCAGGGACTGAAGTGGGAGAAGGCACAGATGAATGGGCCAATCCAAA
GCCACAGTTAGACCCCTGACCAGCTGGAGTTGACCGATGCGGAGTTAAAGGAGGAGTTCAGTCCGATT
TTGACAGCCAACAACCCACACGCACCCAGAACATTGTCAGGTACAGCTTCAAAGAGGCACATATAAG
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GATGAAGGACGGCGGCAGCATTACCGCGATGAATTAGTGGCAGTATCCTACCAAGGTTCTCAGGAGTCT
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AAACTGCTGAACCTGGTGAAGGAAAGTAAAAATCAAGACC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239358
 Blue=ORF Red=Cloning site Green=Tag(s)

MIPASAKAPHKQPHKQSIISIGRGRKRDEDSGTEVGEGETDEWAQSKATVRPPDQLELTD AELKEEFTRI
 LTANNPHAPQNI VRYSFKEGTYKPIGFVNQLAVHYTQVGNLIPKDSDEGRRQHYRDEL VAVSYQGSQES
 VKVISETGNLEEDDEEPELETEPGSQTDVPAAGAAEKVTEELMTPKQPKERKL TNQFNF SERASQTYN
 NPVRDRECQTEPPRTNFSATANQWEIYDAYVEELEKQEKTEKEKAKTPVAKKSGKMAMRKL TSMESQ
 TDDL IKLSQAAKIMERMVNQNTYDDIAQDFKYDDAADEYRDQVGTLLPLWK FQNDKAKRLSVTALCWN
 PKYRDLFAVG YGSYDFMKQSRGMLLLYSLKNPSFPEYMFSSNSGMCLDIHVDHPYL VAVGHYDGNVAI
 YNLKPKHSPSFCSSAKSGKHSDPVWQVKWQKDDMDQNLNFFSVSSDGRIVSWTLV KRKL VHIDVIK LK
 VEGSTTEVPEGLQLHPVGC GTAFDFHKEIDYMFLVGT EEGKIYKCSKSYSSQFLD TYDAHNSVDTVSW
 NPYHTKVFMS CSDWTVKIWDHTIKTPMFIYDLNSAVGDVAVAPYSSTVFAAVTTD GKAHIFDLAINKY
 EAI CNQPVA AKK NRL THVQFNL IHP I I I V GDDR GHI I S L K L S P N L R K M P K E K G Q E V Q K G P A V E I A K L D
 K L L N L V R E V K I K T
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYNTRIEKYEDGGVLHVFSYRYEAGRVI GDFKVMGTGFPE D
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001281428

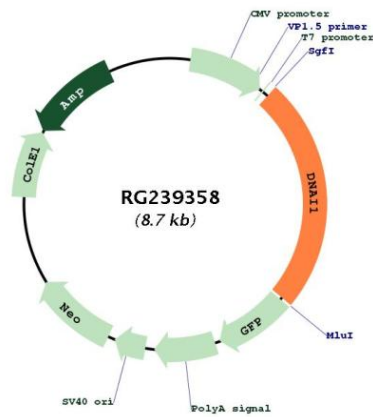
ORF Size: 2109 bp

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).
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
MW:	80.2 kDa
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]

Product images:



Circular map for RG239358