

## Product datasheet for **RG221613**

### **DNAI4 (NM\_207014) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DNAI4 (NM_207014) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNAI4
Synonyms:	DIC4; WDR78
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG221613 representing NM\_207014  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACGCCCGCAAAACATTCCGGAGCCTCGGCCGAGCCGCTAACGCAGGAGCTTGGGGGTACAGGGACT  
 TCAGAGCGGCCAAAAAAGGGTGGTGGACCCTCCCACTGCTCGCCACCATGCCAGTCTCTCCGGC  
 AGGCAGTCACAAGCAGCAGAACTTCGGGTTGAACAATGCCACACAACCAAGAAGTCTATTAGCTTTTT  
 GCTACAATGAAAGCAACTTCAGTAAAGGATATACTGGTGCAAAATCAAAGCAGAATGGCTGTGTCCAAAA  
 CCGTGCTTATCCACCTGAACTGAAAAGTGTAGAAAAACCAATCCCAATATAAGACAACACAGGTATT  
 TGACATAAATGGAAGTGTACTCCCGACCTCTTACCATCCAGATCCACTTACTGGTACAGCAAAA  
 CCAAGTAACTCTTGACATCACAAGAAGGATCACTTGGATCAGAATTTATCTTCTATAGCCTTTATC  
 AGAATAACAATAAATCCTAGTACGTTAGGCAGTTTACAAGGTGAGTTTGGGAAGCAGTACAGTTTCTAA  
 GTCAGTGTATCAGCAAGTGAATCAATAGCAGAAGACCTGGAAGAACCATCCTATAAACGGGAAAGATTG  
 ACTAGTTTCACAGATTTGCAAGTTATAAGGGCAGCACCTGAAAAAATTGTAAACAAAAGAAGACCTGGAGA  
 AGAATATAGAGATAATACTCACAGAGACAGAAACTGAGATTTTTTGACTTGCCACAGTCATGGTCTC  
 TGTAGAATCTGAAGAAGCTGAGAAAAGTAACTCAGAGAAAACAAGAAATTATGAAGTCTTTGTAGAAACAGA  
 TTAGGCAATGACCTATATGTTGAAAGGATGATGCAGACTTTCAATGGAGCACCAAGAATAAAGATGTTT  
 AATGTGATAAAATCATAATGGAAGATAAAGGCATAATGTCCACTGCCTGGGATTTGTATGATTCTTACAA  
 TGCTATGGAAGTGTATCTTTATCAGTAAAACAATCTGTGGTTGAGTCAAGTAGTAAAGCAAATGACTT  
 CCTAAAGATCAGGACCAAGATTGCCAGGGAGCACTACAGAAAAAATAGTGAAGTACTTCTCTAATGG  
 ACATAGAAAAATGTAATTCTGGCAAAAATCCATGAAGATGAGGAAGACCACTCAGATGCAATATTAATAATC  
 TGACAAAATTTTATCAGGACTTATTTTTATGGAACGGGTTCTGATGGAAAATATATTTTCAGCCCAAACTT  
 GCAGCTTATCGTCAGCTTCTGTTTTAAAAAAGCCTGAACCTGAAGAGCCTGAAGATGTTTTAGAAAGTG  
 CAAAACATGAAGAGGTAGAGGAAGAATCTAAGAAGGAGGAGGAAGAAGAATAACATGCAGAAGAATCAAC  
 AATACCCGCCAATTGGAACGACTTTGGTCTTTTTCTGTGACTTAACCAAGGCCTCAATGTGAGCAGC  
 CTTGCCTGGAATAAAACAAATCCAGATCTTTGGCTGTTGGCTATGGGCCTTTGGATTTAAAGAGCAAA  
 AAAGAGGACTGGCTTGTGCTGGTCAATAAAGAATCCCATGGTAACCAACAAGAATAAGAAGCATT  
 TATCTGGCTGTTGACAAAATTCTCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG221613 representing NM\_207014  
 Red=Cloning site Green=Tags(s)

MTPGKHS GASARAANAGAWYRDFRGGQKKGWWTTPQLVATMPVSPAGSHKQONFGLNNTQPKKSI SFF  
 ATMKATSVKGYTGANQSRMAVSKTVLIPPELKTVEKPNPIKTTQVFDINGTDVTPRPLYHPDPLTG TAK  
 PSKLLTSQEGSLGSEFISSYSLYQNTINPSTLQGFTRSVLGSSTVSKSSVSASESIAEDLEEPSYKRERL  
 TSFTDLQVIRAAPEKIVTKEDLEKNIIEIILTETETLRFDDLPTVMVSVSEEEAEKVTQRNKNYEVL CRNR  
 LGNDLYVERMMQTFNGAPKNKDVQCDKIIMEDKGMSTAWDLYDSYNAMELVSLSVKQSVVESSKANVL  
 PKDQDQRLPGSTTEKNSETSSLMDIENVILAKIHEDEEDHSDAILKSDKFHQDLFFMERVLMENIFQPKL  
 AAYRQLPVLKEPEPEEPEDVLES AKHEEVEEESKKEEEEEIHAEESTIPANLERLWSFCDLTKGLNVSS  
 LAWNKTNPDLLAVGYGHFGFKEQKRLACCWSIKNPMVTQTRIRSFIFWLLTKFS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_207014

**ORF Size:** 1635 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:**

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\\_207014.1](#), [NP\\_996897.1](#)

**RefSeq Size:** 1795 bp

**RefSeq ORF:** 1638 bp

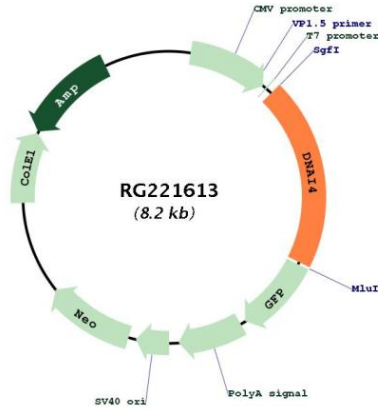
**Locus ID:** 79819

**UniProt ID:** [Q5VTH9](#)

**Cytogenetics:** 1p31.3

**Gene Summary:** Plays a critical role in the assembly of axonemal dynein complex, thereby playing a role in ciliary motility.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG221613