

Product datasheet for **RG224526**

DNAI4 (NM_024763) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAI4 (NM_024763) 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:

>RG224526 representing NM_024763
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGCCCGGCAAAACATTCCGGAGCCTCGGCCGAGCCGCTAACGCAGGAGCTTGGGGGTACAGGGACT
 TCAGAGCGGCCAAAAAAGGGTGGTGGACCCTCCCACTGGTCGCCACCATGCCAGTCTCTCCGGC
 AGGCAGTCACAAGCAGCAGAACTTCGGGTTGAACAATGCCACACAACCAAAGAAGTCTATTAGCTTTTT
 GCTACAATGAAAGCAACTTCAGTAAAGGATATACTGGTGCAAAATCAAAGCAGAATGGCTGTGTCCAAAA
 CCGTGCTTATCCACCTGAACTGAAAACGTAGAAAAACCAATCCCAATATAAGACAACACAGGTATT
 TGACATAAATGGAAGTGTACTCCCGACCTCTTACCATCCAGATCCACTTACTGGTACAGCAAAA
 CCAAGTAACTCTTGACATCACAAGAAGGATCACTTGGATCAGAATTTATCTTCTATAGCCTTTATC
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 GTCAAGTGTATCAGCAAGTGAATCAATAGCAGAAGACCTGGAAGAACCCTCTATAAACGGGAAAGATTG
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 CCTAAAGATCAGGACCAAGATTGCCAGGGAGCACTACAGAAAAAATAGTGAAGTACTTCTCTAATGG
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 CTTGCCTGGAATAAAAACAAATCCAGATCTTTGGCTGTTGGCTATGGGCACTTTGGATTTAAAGAGCAAA
 AAAGAGGACTGGCTTGTGCTGGTCAATAAAGAATCCCATGTGCCAGAACGATTTTATCAGAGTCCATA
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 AAGCTTTGATATCTCGACAGGCTCCTGGAATGTGTTTTGCTTTTCATCCCAAGGACACAAATATCTATTT
 GGCTGGCACTGAAGAAGTCAATTTACAAAATGTTCTTGTTCATATAATGAACAATACTTAGATACCTAC
 AGAGGACATAAAGGTCCAGTGTATAAAGTGACATGGAATCCATTTGTGATGATGATTTTTAAGCTGTT
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 TTCTGTTGTTACGACGTTGCCTGGTCTCCAAAATCATCCTATATATTTGCAGCTGCAAAATGAGAACAGG
 GTGGAGATTTGGGACCTTCATATCAGCACTTTGGACCCTCTGATTGTGAATACTGCTAACCTTGGAAATCA
 AGTTACAAACATTCTCTTTGCCAAACAAACAGATTGCCTTCTGGTAGGAGACAGTATGACAGGTTTC
 TGTGTATGAACTGAGAAATATGCCTACTGTTTTGGAAACTGGCCGGGAGATATAATGGATACTTTGCTT
 GGATCCAAGTCAAACCAATCAGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG224526 representing NM_024763
Red=Cloning site Green=Tags(s)

MTPGKHSGASARAANAGAWGYRDFRGGQKKGWWTTPQLVATMPVSPAGSHKQNFGLNNATQPKKSI SFF
ATMKATSVKGYTGANQSRMAVSKTVLIPPELKTVEKPNPNIKTTQVFDINGTDVTPRPLYHPDPLTG TAK
PSKLLTSQEGSLGSEFISSYSLYQNTINPSTLGQFTRSVLGSSTVSKSSVSASESIAEDLEEPSYKRERL
TSFTDLQVIRAAPEKIVTKEDLEKNIEIILTETETLRFFDLPTVMVSVSEEEAEKVTQRNKNYEVL CRNR
LGNDLYVERMMQTFNGAPKNKDVCCKIIMEDKGIMSTAWDLYDSYNAMELVSLSVKQSVVSSSKANVL
PKDQDQRLPGSTTEKNSETSSLMDIENVILAKIHEDEEDHSDAILKSDKFHQDLFFMERVLMENIFQPKL
AAYRQLPVLKEPEPEPEPEDVLES AKHEEVVEESKKEEEEEIHAEESTIPANLERLWSFCDLTKGLNVSS
LAWNKTNPDLLAVGYGHFGFKEQKRLACCWSIKNPMWPERIYQSPYGVTA VDFSIGAPNLLAVGYHNGT
IAIYNVRSNSNPVLDSSESPQKHLGPVWQLQWIEQDRGTTGDGKREILVSI SADGRISKWVIRKGLDCY
DLMRLKRTTAASNKKGGEKEKKDEALISRQAPGMCFAFHPKDTNIYLAGTEEGHIHKSCSYNEQYLD TY
RGHKGPVYKVTWNPFC HDVFLSCSADWGVIIWQQENVKPSLSFY PATSVVYDVAWSPKSSYIFAANENR
VEIWDLHISTLDPLIVNTANPGIKFTTILFAKQTDCLLVGSDGQVSVYELRNMPVLETGRGDIMDTLL
GSKSNQSA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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_024763.3](#), [NP_079039.3](#)

RefSeq Size: 3871 bp

RefSeq ORF: 2547 bp

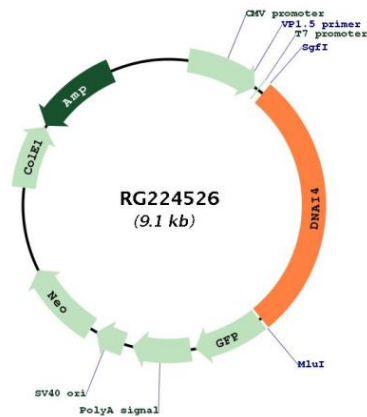
Locus ID: 79819

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 RG224526