

Product datasheet for **RG235410**

DNAH14 (NM_001373) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAH14 (NM_001373) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNAH14
Synonyms:	C1orf67; Dnahc14; HL-18; HL18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG235410 representing NM_001373 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RG235410 representing NM_001373
 Red=Cloning site Green=Tags(s)

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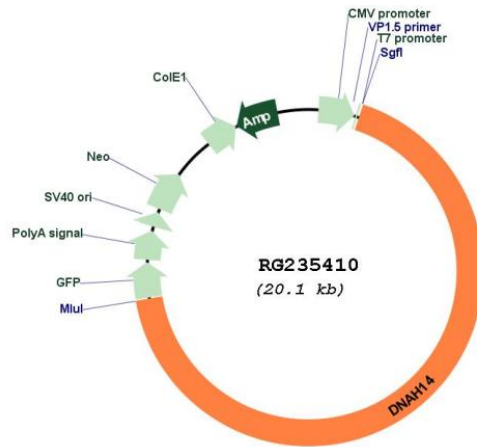
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 KGNCINLPTGECISIFGYFVDIEQCEFIWSDLPVNDQTLIQRGTSLLTNLQSRGGNFKITEGECINYT
 ATRDTTCLSFMSLLKNNSCPVLLTGESGVGKTAAINQMLEKLEGGAFDIKHGSILGDTLLYSEIKKSS
 SLKQNIITILIPETHKTATGSSDNPTKKPEVRTNKKLLKNDHKGVVSTINFSTNVTAATKEMILKKLI
 RRTKDTLGAPKNNRILIFIDDMNMPVSDMYGAQPPELIRQLLDLGGVYDTEKNTWKNIQDLSIVAACVP
 VVNDISPRLLKHFVSMVLPHPSPQDILCTIFQAHLGIYFSINNFTPEVQKSKDQIIISCSLAIYHQVRQNM
 LPTPTKCHYMFNLRDMFKLLGLLQADRTVNSKEMAALLFVHEATRPFHDLIDFIDKSLFYRLLSRELE
 NCFQIGIDGCGKKTATLACYLTDNKL YRVPI SHKCA YIEFKEVFKKVF IHAGLKGKPTVLMVPLNIEQ
 DSFLEDLNYIISGRIPDLFENVELDSIAMKIRYLTEQSGHMDNRQSLLSFFQKRIYKNLHIFVIMSPEG
 PSFRQNCRVYPSMISSCTIDWYERWPEEALLIVANSFLKEKVNFNENRENLEKLAAPTQVQIHKSMKDLNR
 KYFEETGRFYTTPN SYLQFMETFAHILRAREEEMQTKRDRFHMGLSTILEATLVTEMQEELLILGPQV
 EQKTETETLMEKLRKDSQVVEKQMLVKQDEEIVAAEVRIVEDYAQKTANELKSVLPAFDKAIVALNAL
 DKADVAELRVYTRPPFLVLTVMNAVCI LLQKKNWATAKLLLSETGFLKKLINLDKDSIPDKVFKLKKI
 VTLPDFNPHKISLVSVACCSLCQWVIALN NYHEVQKVVGPKQIQVAEAQNVLKIARQLAEKQRLQLVE
 EHLLFLQAAYKDTVAEKQLLANRKTMSRRFQCASVLLTVLEDEKTRWQETINQIDNKLEGILGDILL SA
 ACIVYSGILTPEFRQLIVNKWETFCIENGISLSSKFSLIKVMAQKYEISRWHNQGLPHGQYSVENAILIK
 NGQQWPLLIDPHRQAHKWIRQMEGSRQLKLSIEDSNYTKKIENAMKTGGSVLLQNLLET LAPGLKAILKK
 DIYQKKGHYFIRVGDAEFYNSNFRLLYLSTEIDNPHFLPSVYNFVTMINFTVTFQGLQDQLLSTVVTHEV
 PHLEDQRSKLLESISLDAITLEEEELTNLLQKALGSLDDDKIVDTLRKSKMSTNEISKRIEATKKA
 SEIQAIRKNYLP IATRGALLYFLVADLTQINMYQFSLDWFHQVFVSSVSKSKEQEHFVKREKVSPEV
 HEFISISKEPNLENEKNLLDKHIKSAIDMLTKSIFKVVSSALFNEDKLCFSFRLCTVIMQNNANGNLIQD
 DIGFLPEEEWNIFLYSGILINIKSALSQSRLTSTFEIGESQHLQWLSDRWRQCQYVSTHLEPFSLCKS
 LLSNVSQWDTFKNSKAVYSLISTPFSSENASLEENTKPEETELLNENKETCNPIINFWEKLT SFQRLIL
 YKVL RPESLNNSVRKFITEKMGNKYLQRTGVNLKDAYKGSNARTPLILIQTHGIDL TNILLRFAQELKGT
 THHVTIISLGRDQA AKAEDLILKALTKTQQWVFLQNCHLATSFM PRLCTIVESFNSPNVTIDPEFRWL S
 SKSYSSFPPIV LKKGLKIAVES PQGLKSNLLQTFGCTGSGEVTEEIFENPDCGQWWKLLFSLCFFNAVI
 NERKNYGILGWNIAYKFNSSDLGVAIKVLENSLRGQPSISWQALRYLIGEVIYGGRIDNWDKRCCLKTLL
 YKFCNPEVLKDDFSF SRSASIKDYIHI IQSLPDDDLPEVLGIHPEAIRSCWETQGEKF IENLIAMQPKTT
 TANLMIRPEQSKDELVMEILSDLLKRLPLTVEKEEIAVGT PSTLKSMMSSSIWESLSKNLKDHDPLIHCV
 LLTFLKQEI KRFDKLLFVIHKS LKDLQLAIKGEIILTQEEEIFNSFLNMRVPTLWQKHAYRSCKPLSSW
 IDDLIQRLNFFNTWAKVAYTAIQRRYMRFTVWKQSI PSTSQKCKHPEDSENFFEGFP SRYWLPAFFFP
 QAF LAAVLQDYGRSRGIAVDALTFTHHVISNTTDKDEKFSVFM PKKLNIVRRAFKGSASSHTGVYIFGLF
 IEGARWNREQKILED SLPLEMCDFPDIYFLPTKISTKTPNASNQTDSELYAFECPPVYQTPERSRILATT
 GLPTNFLTSVYLSTKPPSHWITMRVALLCEKNEK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_001373

ORF Size: 13545 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001373.1](#), [NP_001364.1](#)

RefSeq Size: 13788 bp

RefSeq ORF: 13548 bp

Locus ID: 127602

UniProt ID: [Q0VDD8](#)

Cytogenetics: 1q42.12

Gene Summary: Dyneins are microtubule-associated motor protein complexes composed of several heavy, light, and intermediate chains. Two major classes of dyneins, axonemal and cytoplasmic, have been identified. DNAH14 is an axonemal dynein heavy chain (DHC) (Vaughan et al., 1996 [PubMed 8812413]).[supplied by OMIM, Mar 2008]