

Product datasheet for RC219529

DNAH5 (NM_001369) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAH5 (NM_001369) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNAH5
Synonyms:	CILD3; DNAHC5; HL1; KTGNR; PCD
Mammalian Cell Selection:	None
Vector:	pRMT-tGFP, Promoter-less GFP Reporter Vector (PR100002)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RC219529 representing NM_001369 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC219529 representing NM_001369
 Red=Cloning site Green=Tags(s)

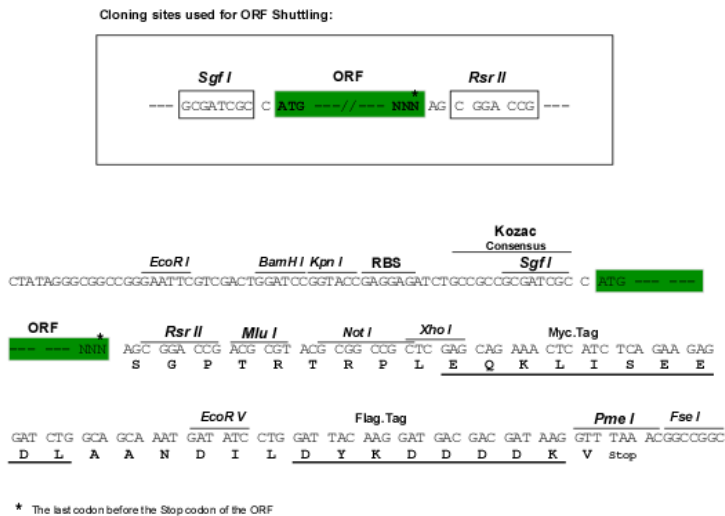
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 RCYITLAQALGMSMGAPAGPAGTGKTEETTKDMGRCLGKYVVVFNCSQDMDFRGLGRIFKGLAQSGSWG
 CDFENRIDLPLVLSVAAQQISIIILCKKEHKKSIFFTDGNVTMNPFGFLFTMNPYAGRQELPENLKIN
 FRSVAMVDPDRQIIIRVKLASCGFIDNVVLARKFFTLTKLCEEQLSKQVHYDFGLRNILSVLRTLGA
 ANPMDTESTIVMRVLRDMNLSKLIIDEPLFLSLIEDLFPNILLDKAGYPELEAAISRQVEEAGLINHPP
 WKLVKVIQLFETQVRHGMMLTGPSSGAGTTCIHTLMRAMTDCGKPHREMRMNPKAITAPQMFRGLDVATN
 DWTGIFSTLWRKTLRAKKGEHIWIILDGPVDAIWIENLNSVLDDNKTLTLANGDRIPMAPNCKIIFEPH
 NIDNASPATVSRNGVMFSSSILDWSPILEGFLKKRSPQAEILRQLYTESFPDLYRFCIQNLEYKMEVL
 EAFVITQSIINMLQGLIPLKEQGGVSVQAHGRLVVFALLWSAGAALDGRRRLELWLSRPTGTLELPP
 PAGPGDTAFDYVYVAPDGTWTHWNRTRQEYLPSDTPPEYGSILVPNVNVRTDFLIQTIAKQKAVLLIG
 EQGTAKTVIIKGFMSKYDPECHMIKSLNFSATPLMFQRTIESYVVKRMGTTYGPPAGKMTVFIDDVN
 MPIINEWGDQVTNEIVRQLMEQNGFYNLEKPGFEFTSIVDIQFLAAMIHPGGGRNDIPQRLKRQFSIFNCT
 LPSEASVDKIFGVIQVGHYCTQRGFSEEVRSVTKLVPLTRRLWQMTKIKMLPTPAKFHYVFNLRDL
 SRVWQGMNTTSEVIKEPNLLKLWKHECKRVIADRFTVSSDVTWFDKALVSLVEEFGEEKLLVDCGIDTY
 FVDFLRDAPEAAGETSEEADAETPKIYEPYESFSLKERLNMFLQLYNESIRGAGMDMVFADAMVHLVK
 ISRVIRTPQGNALLVGVGGSGKQSLTRLASFIAGYVSFQITLRSYNTSNLMEDLKVLYRTAGQKQKGIT
 FIFTDNEIKDESFLYMNVLSSGEVSNLFAREIDEINSDLASVMKKEFPRLPTNENLHDYFMSRVRQ
 NLHIVLCFSPVGEKFRNRALKFPALISGCTIDWFSRWPKDALVAVSEHFLTSYDIDCSLEIKKEVVQCMG
 SFQDGAEKCVDFYQFRFRSTHVTPKSYLSFIQGYKFIYGEKHVEVRTLANRMNTGLEKLEKASESVAAL
 SKELEAKEKELQVANDKADMVLEKVTMKAQAQAEVQKVKDRAQAIVDSISKDKAIAEEKLEAKPA
 LEEAEAAQTIRPSDIATVRTLGRPPHLMRIMDCVLLLFQRKVSARKIDLEKSCTMPWQESLKLMTAG
 NFLQNLQQFPKDTINEEVIEFLSPYFEMPDYNIETAKRVCNVAGLCSWTKAMASFFSINKEVPLKANL
 VVQENRHLLAMQDLQKAQAELEDDKQAELEDDVQAEYEQAMTEKQTLLEDAERCRHKMQTASTLISGLAGEK
 ERWTEQSQEFAAQTKRLVGDVLLATAFLSYSGPFNQEFRDLLLLNDWRKEMKARKIPFGKNLNLSEMLIDA
 PTISEWNLQGLPNDLSIQNGIIVTKASRYPLIDPQTQGIWIKNKESRNLQITSLNHKYFRNHLEDS
 LSLGRPLLIEDVGEELDPALDNVLERNFIKTGSTFKVKVGDKEVDVLDGFRLYITTKLPNPAYTPEISAR
 TSIIDFTVTMKGLEDQLLGRVILTEKQELEKERTHLMEDVTANKRRMKELEDNLLYRLTSTQGS
 LVEDES LIVVLSNTKRTAEEVTQKLEISAETEVQINSAREEYRPVATRGSILYFLITEMRLVNEMYQTS
 LRQFLGLFDLSLARSVKSPITSKRIANIIEHMTYEVYKYAARGLYEEHKFLFTLLLTLKIDIQNRV
 KHEEFLTLIKGGASLDLKACPPKPSKWILDITWLNVELSKLRQFSDVLDQISRNEKMWKIWF
 DKENPEEPLPNAYDKSLDCFRRLLLIRSWCPDRITIAQARKYIVDSMGEKYEAGVILDLEKTW
 EESDPRTPLICLLSMGSDPTDSIIALGKRLKIETRYVSMGQGEVHARKLLQQT
 MANGGWALLQNCHLGLDFMDELMDIIETELVHDAFRLWMTTEAHKQFPITLLQMSIK
 FANDPPQGLRAGLKRTYSGVSQDLLDVSSGSQWKPMLYAVAFHSTVQERRKFGALGWN
 IPYEFNQADFNATVQFIQNHLDMDVKKGVSWTTIRYMIQEIQYGGRRVTDYDKRLLNTFAK
 VWFSENMFQPDFSFYQGYNIPKCSTVDNYLQYIQSLPAYDSPEVFGHLPNADITYQSKLAKD
 VLDITLGIQPKDTSGGGDETREAVVARLADDMLEKLPPDYVPFEVKERLQKMGPFQPMNIF
 LRQEIDRMQRVLSLVRSTLTELKLAIDGTIIMSENLRDALDCMFARIPAWWKKASWISS
 TLTGFWFTELIERNQSFTSWVFNGRPHCFWMTGFFNPQGFITAMRQEITRANKG
 WALDNMVLCEVTKWMKDDISAPPTGYYVYGLYLEGAGWDKRNMKLIESKPKVLFELMP
 VIRIYAENNTLRDPRFYSCPIYKKPVRTDLNYIAAVDLRTAQTPEHWLVRGVALLCDVK

SGP TRTRRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001369

ORF Size: 13872 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_001369.3](#)

RefSeq Size: 13971 bp

RefSeq ORF: 13875 bp

Locus ID: 1767

UniProt ID: [Q8TE73](#)

Cytogenetics: 5p15.2

MW: 528.8 kDa

Gene Summary: This gene encodes a dynein protein, which is part of a microtubule-associated motor protein complex consisting of heavy, light, and intermediate chains. This protein is an axonemal heavy chain dynein. It functions as a force-generating protein with ATPase activity, whereby the release of ADP is thought to produce the force-producing power stroke. Mutations in this gene cause primary ciliary dyskinesia type 3, as well as Kartagener syndrome, which are both diseases due to ciliary defects. [provided by RefSeq, Oct 2009]