

Product datasheet for RC212699

DNAH1 (NM_015512) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAH1 (NM_015512) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DNAH1
Synonyms:	CILD37; DNAHC1; HDHC7; HL-11; HL11; HSRF-1; SPGF18; XLHSRF-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC212699 representing NM_015512 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC212699 representing NM_015512
 Red=Cloning site Green=Tags(s)

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 LREVEDGIATMQAKYRECITKKEELELKECEQRLGRACKVRTL LLLQGLQAGPAQTGARKDQGAGGSWG
 GCPHPLPGNPGATVGRASPRPLAQPPRAHPTGLPLQLINGLSDEKVRWQETVENLQYMLNNISGDV LVAA
 GFVAYLGPFTGGYRTVL YDSWVKQLRSHNPHTSEPTLIGTLGNPVKIRSWQIAGLPNDT LSVENGVINQ
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 KQTYKQQGNTVLKLDGTVIPYHEDFRMYITTKLPNPHYTPEISTKLT LINFTLSPSGLEDQLLGQVVAEE
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 EKDIDLTRMEYIPVAIRTQILFFCVSDLANVDPMYQYSLEWFLNIFLSGIANSERADNLKKRISNINRYL
 TYSLYSNVCRSLFEKHKLMFAFLLCVRIMMNEGINQSEWRYLLSGGSISIMTENPAPDWLSDRAWRDIL
 ALSNLP TFSFSSDFVKHLSEFRVIFDSEPHREPLPGIWDQYLDQFQKLLVLRCLRGDKVTNAMQDFVA
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 MMRSSIERGKWVFFQNCHLAPS WMPALERLIEHINPDKVHRDFRLWLTSLPSNKFVPSILQNGSKMTIEP
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 QLKMFLEDEYDDIPYKVLKYTAG EINYGGRVTDWDRRCIMNILEDFYNPDVLSPEHSYSASGIYHQIPPT
 YDLHGYSYIKSLPLNDMPEIFGLHDNANITFAQNETFALLGTIIQLQPKSSSAGSQGREEIVEDVTQNI
 LLKVPEPINLQWYMAKYPVLYEESMNTVLVQEVIRYNRLQVITQTLQDLLKALKGLVVMSSQLELMAAS
 LYNNTVPELWSAKAYPSLKLSSWYMDLLQRLDFLQAWIQDGIPAVFWISGFFFPQAFLTGTLQNFARKF
 VISIDTISDFKVMFEAPSELTQR PQVGCYIHGLFLEGARWDPEAFQLAESQPKELYTEM AVIWLPTPN
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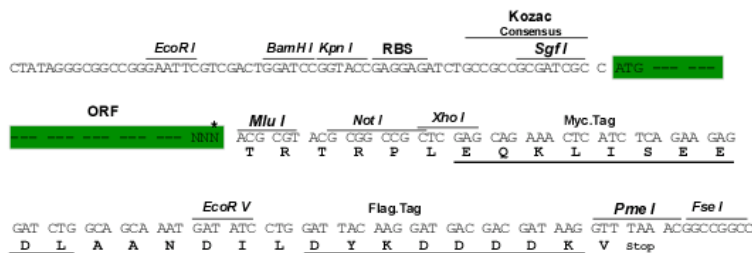
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

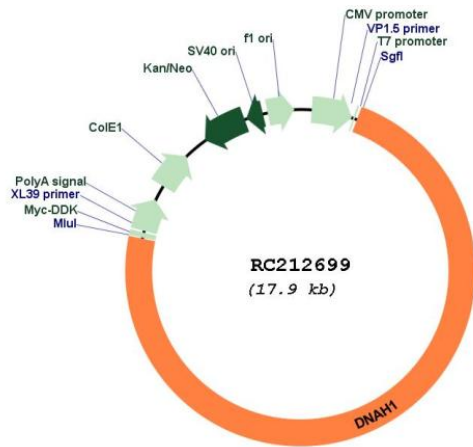
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_015512

ORF Size: 12990 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:	<ol style="list-style-type: none">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_015512.3 , NP_056327.3
RefSeq Size:	13114 bp
RefSeq ORF:	12798 bp
Locus ID:	25981
UniProt ID:	Q9P2D7
Cytogenetics:	3p21.1
Domains:	Dynein_heavy
Protein Pathways:	Huntington's disease
MW:	493.97 kDa
Gene Summary:	This gene encodes an inner dynein arm heavy chain that provides structural support between the radial spokes and the outer doublet of the sperm tail. Naturally occurring mutations in this gene are associated with primary ciliary dyskinesia and multiple morphological anomalies of the flagella that result in asthenozoospermia and male infertility. Mice with a homozygous knockout of the orthologous gene are viable but have reduced sperm motility and are infertile. [provided by RefSeq, Feb 2017]