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Product datasheet for RG239715

DNAH2 (NM_001303270) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DNAH2 (NM_001303270) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNAH2
Synonyms:	DNAHC2; DNHD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG239715 representing NM_001303270.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCCAGCAAAGCTGAGAAGAAGCAGCGATTGAGTGGCCGAGGAAGCTCCCAGGCAAGCTGGTCAGGG
CGGGCCACTCGGGCTGCTGTGGCCACACAGGAGCAGGGGAATGCCCCGGCTGTCAGTGAGCCAGAGCTG
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GTCTCAGCTACTTGGGAGGGTGAGGTGGGAGGATCGCCTGAGCCCGGGAGGCAGAGGCTGCAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG239715
Blue=ORF Red=Cloning site Green=Tag(s)

MSSKAEKKQRLSGRGSSQASWSGRATRAAVATQEQGNAPAVSEPELQAELPKEEPEPRLEGPQAQSEES
VEPEADVKPLFLSRAALTGLADAVWTQEHDAILEHFAQDPTESILTIFIDPCFGLKLELGMPVQTQNQL
VYFIRQAPVPITWENFEATVQFGTVRGPYIPALLRLLGGVFAPQIFANTGWPESIRNHFASHLHKFLAC
LTDTRYKLEGHTVLYIPAEAMNMKPEMVIKDKELVQRLETSMIHWTRQIKEMLSAQETVETGENLGPLE
EIEFWRNRCMDLSGISKQLVKKGVKHVESILHLAKSSYLAPFMKLAQQIQDGSRQAQSNLTFLSILKEP
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MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
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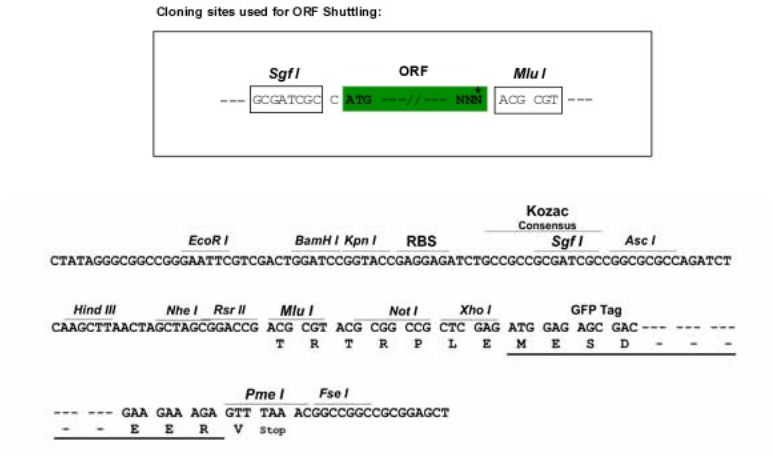
Restriction Sites: SgfI-MluI

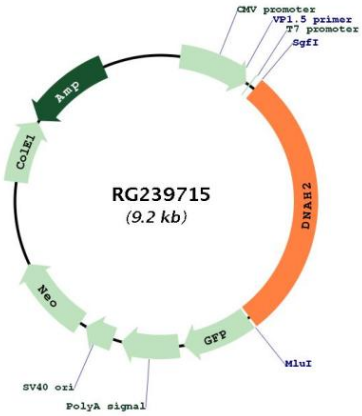
Cloning Scheme:



ACCN:	NM_001303270
ORF Size:	2616 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).
RefSeq:	NM_001303270.2
RefSeq Size:	3006 bp
RefSeq ORF:	2619 bp

Locus ID:	146754
UniProt ID:	Q9P225
Cytogenetics:	17p13.1
Protein Pathways:	Huntington's disease
MW:	100.4 kDa
Gene Summary:	Dyneins are microtubule-associated motor protein complexes composed of several heavy, light, and intermediate chains. The axonemal dyneins, found in cilia and flagella, are components of the outer and inner dynein arms attached to the peripheral microtubule doublets. DNAH2 is an axonemal inner arm dynein heavy chain (Chapelin et al., 1997 [PubMed 9256245]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG239715