

Product datasheet for RC231855

DNAL1 (NM_001201366) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DNAL1 (NM_001201366) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DNAL1
Synonyms: C14orf168; CILD16; LC1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC231855 representing NM_001201366
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGATGCATCCTTGCCATGCTTGCTAATTGCGAGAAGCTTTCCTGTCTACAACTGCATTGAAAAA
 TTGCCAACCTGAATGGCTTAAAAAATTGAGGATATTATCTTTAGGAAGAAACAACATAAAGAACTTAA
 TGGACTGGAGGCAGTAGGGGACACATTAGAAGAACTGTGGATCTCTACAATTTTATTGAGAAGTTGAAA
 GGGATCCACATAATGAAGAAATTGAAGATTCTCTACATGTCTAATAACCTGGTAAAAGACTGGGCTGAGT
 TTGTGAAGCTGGCAGAACTGCCATGCCTCGAAGACCTGGTGTGTTGTAGGCAATCCCTTGAAGAGAAACA
 TTCTGCTGAGAATAACTGGATTGAAGAAGCAACCAAGAGAGTGCCCAAAGCTGAAAAGCTGGATGGTACT
 CCAGTAATTAAGGGGATGAGGAAGAAGACAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231855 representing NM_001201366
 Red=Cloning site Green=Tags(s)

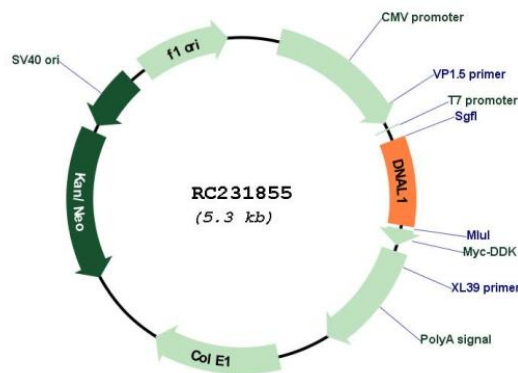
MDASLSMLANCEKLSLSTNCIEKIANLNGLKRLRILSLGRNNIKNLNGLEAVGDTLEELWISYNFIEKLN
 GIHIMKCLKILYMSNNLVKDWAEFVKLAELPCLEDLVFVGNPLEEKHSAENNWIEEATKRVPLKLLKLDGT
 PVIKGDDEEDN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001201366

ORF Size: 453 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).
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:	<u>NM_001201366.2</u>
RefSeq Size:	8584 bp
RefSeq ORF:	456 bp
Locus ID:	83544
UniProt ID:	<u>Q4LDG9</u>
Cytogenetics:	14q24.3
Protein Pathways:	Huntington's disease
MW:	17.5 kDa
Gene Summary:	This gene encodes an axonemal dynein light chain which functions as a component of the outer dynein arms complex. This complex acts as the molecular motor that provides the force to move cilia in an ATP-dependent manner. The encoded protein is expressed in tissues with motile cilia or flagella and may be involved in the movement of sperm flagella. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Jan 2011]