

## Product datasheet for RN210709

### Dnal1 (NM\_001109477) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dnal1 (NM_001109477) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dnal1
Synonyms:	Dnalc1; LC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN210709 representing NM_001109477 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAAAGCAACAACAATCAAAGAAGCCCTGTCCAGATGGGAAGAAAAGACCGGTCAGAAGCCATCTG  
ATGCCAGAGAAATAAAGCTGTATGCCAGATCCCCCATAGAGAAGATGGACGCGTCTCTGTCCACACT  
TGCTAACTGCGAGAAGCTTCCCTGTCTACAACTGCATTGAAAAATTGCCAACCTGAATGGCCTAAAA  
AACTTGAGGATTCTGTCCTTAGGAAGAAACAACATCAAGAACCTAAATGGACTGGAAGCAGTCGGAGACA  
CACTAGAAGAAGTGTGGATCTCCTACAATTTTATTGAGAAGTTGAAAGGGATCCATGTAATGAGGAACT  
GAAGATTCTCTACATATCTAATAACCTGGTAAAAGACTGGGCTGAGTTTGTGAAGCTGGCTGAGCTGCCG  
TGCTTGAGGACCTGGTATTTGTGGCAATCCCCTGGAGGAGAAGCATTCTGCTGAGGGCAACTGGATTG  
AAGAAGCTACCAAGAGGGTGCCCAAGCTGAAGAAGCTGGATGGTACTCCAGTAATTAAGGAGGATGAAGA  
AGAGGAAAGCTAA

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-RsrII
ACCN:	NM_001109477
Insert Size:	573 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001109477.2</u> , <u>NP_001102947.2</u>
<b>RefSeq Size:</b>	619 bp
<b>RefSeq ORF:</b>	573 bp
<b>Locus ID:</b>	685664
<b>UniProt ID:</b>	<u>A0A096MJZ0</u>
<b>Cytogenetics:</b>	6q24
<b>Gene Summary:</b>	Part of the multisubunit axonemal ATPase complexes that generate the force for cilia motility and govern beat frequency (By similarity). Component of the outer arm dynein (ODA). May be involved in a mechanosensory feedback mechanism controlling ODA activity based on external conformational cues by tethering the outer arm dynein heavy chain (DNAH5) to the microtubule within the axoneme (By similarity). Important for ciliary function in the airways and for the function of the cilia that produce the nodal flow essential for the determination of the left-right asymmetry (By similarity).[UniProtKB/Swiss-Prot Function]