

Product datasheet for **MC212110**

Dnal1 (NM_028821) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dnal1 (NM_028821) Mouse Untagged Clone
Tag: Tag Free
Symbol: Dnal1
Synonyms: 1700010H15Rik; AW121714; Dnalc1; E330027P08Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC212110 representing NM_028821
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCAAAGCAACAACGATCAAAGAAGCCCTGTCCAGATGGGAAGAAAAGACTGGTCAGAAGCCATCTG
ATGCCAAAGAAATCAAGCTGTATGCCAGATCCCCCATAGAGAAGATGGACGCATCTCTATCCACACT
TGCTAACTGCGAGAAGCTTCCCTGTCTACAACTGCATTGAAAAAATTGCCAACCTGAATGGCCTAAAA
AACTTGAGGATTTTGTCCCTTAGGAAGAAACAACATAAAGAACCTAAATGGACTGGAAGCAGTAGGAGAAA
CACTGGAAGAAGCTGGATCTCCTACAATTTTATTGAGAAGTTGAAAGGAATCCATGTAATGAAGAACT
GAAGATTCTCTACATGTCTAATAACCTGGTAAAAGACTGGGCTGAGTTCCTGAAGCTGGCCGAGCTGCCG
TGCTGGAGGACCTGGTGTTCGTCGGTAATCCCCTGGAGGAGAAACACTCTGCCGAGGGCAACTGGATCG
ATGAAGCAACCAAGAGAGTGCCCAAGCTGAAAAGCTGGATGGTACTCCAGTAATTAAGGAGGATGAAGA
AGAGGAAAGCT**AA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_028821
Insert Size: 573 bp
OTI Disclaimer:

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).



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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_028821.3 , NP_083097.2
RefSeq Size:	5792 bp
RefSeq ORF:	573 bp
Locus ID:	105000
UniProt ID:	Q05A62
Cytogenetics:	12 D1
Gene Summary:	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]