

Product datasheet for **RR201269**

Dnai1 (NM_001024342) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Dnai1 (NM_001024342) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Dnai1 |
| Synonyms: | Dnaic1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RR201269 representing NM_001024342
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTCGAAACAGATTCTAAGCAGAGTGTCAATTTTGACCAGAGGAGCCAGGAAGCGAGAGGAAGACT
 CAGGGACTGATGTGGGAGAAGGAGCCGATGACTGGGCCCAATCCAAAGCCGCTGTGCGGCCCCCTGACCA
 GCTGGAGCTGACTGACGCGGAGTTAAAGGAGGAGTTCCTCGGATCCTGACAGCAAAACAACCCACATGCA
 CCCCAGAATATTGTCAGGTACAGCTTCAAAGAACGCACATACAAGCTTATTGGTTTTGTGAACCAATGG
 CAATTCACCTTCAGTCAGGTGGGAACTGATACCCAAAGACTCAGATGAAGGCCGTCGACAGCACTACCG
 TGATGAGCTGGTGGCAGTTTACAGGAGTCAGTCAAGGTGGTACTTACAGACACAGAAATCCTTGAAGAA
 GAGGAAGAACCCAAAGAAGGAGAAGGAGAAGGAGAAGGAGAAGCAGAAGGAGAAGCAGAAGCTGGGAGCC
 AAACGGACGTACCTGCTGCAGCCGAGACGACTGAAAAGGTGATTGAAGAAGAACTGATGGCTCCTGTGCA
 GCCCAAGGAGCGAAAACCTCACGAACCACTTAACTTCAGCGAGCGAGCATCTCAGACCTTCAACAACCT
 CTCGGGATCGAGAATGTGAGTGGAGCCTCCACCTCGGACAAACTTTTCAGCCACAGCCAAATCAGTGGG
 AGATCTATGATGCCTATGTAGATGAGCTCGAGAACTGGAAAAGACCAAGAGAAGGAGAAGACCAAGAC
 TCCAGTGGCTAAGAAAACAGAGAAGATGGCCATGAGGAACTAACATCTATGGAGTCTCAGAGTGTGAT
 ATCACCAAAGTGACCCAAGCTGTAAAATCGTGGAGCGAATGGTCAACAAAATACATACGATGATGTGC
 CTCAAGATTTTAACTACTATGAGGATGTGCTGATGAATACAGGGACCAGGAGGGTACGCTGTGCCTCT
 CTGGAAGTTTCAAATGACAAAGCCAAGCGCCTGGCCGTACCGCCCTCTGCTGGAATCCAAAGTACAAG
 GATCTTTTTGCTGTGGGACATGGCTCCTATGACTTCATGAAACAGAGTCGGGGCATGTGTCTGACATGCA
 TATGGACCACCCCTACCTGGTGGTCTGGGCTACTATGACGGCAACGTGGCCATCTACAACCTCAAGAAG
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 AATGGCAGAAGGATGACATGGACCACAACCTTAACTTCTTTTCTGTGTCATCTGATGGCAGGATCGTGT
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 GAAATCCCTGAGGGGCTGCAGCTGCACACTGTAGGCTGTGGCACTGCCTTTGACTTCCACAAGAGATTG
 ACTATCTGTTCTCGTGGGCACAGAAGAGGGGAAAATCTACAAGTGTCCAAATCTACTCCAGCCAGTT
 CTTGGACACCTATGATGCTCACAACATGGCAGTAGACGCTGTGTTATGGAACCCATACCACGCCAGGGTC
 TTCATATCTTGCAAGTTCTGACTGGACAGTGAAGATCTGGGACCAGCCATCAAGACCCCATGTTTCTAT
 ATGATCTGAACGAGCTGTGGTGACGTGGCCTGGGCACCGTACTCTTCCACTGTGTTTGCAGCAGTAC
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 GTGGCCAAAGAAGAAGAACAAGATTACCCATGTGCAGTTCAACCCATTACCCCATCATAATAGTGGGCG
 ATGACCGTGGACACATCACCTGTCTCAAGCTCTCTCCAACTTACGAAAGATGCCGAAGGAGAAGAAGGG
 GCAGGAAGTGCAGAAGGGTCCAGCTGTGGAGATCGAAAATTGGACAACTGCTAAACCTTGTGAGGGAA
 GTAAAAACCAAAACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201269 representing NM_001024342
 Red=Cloning site Green=Tags(s)

MPSKQIRKQSVILTRGARKREEDSGTDVGEAGDDWAQSKAAVRPPDQLEL TDAELKEEFTRILTANNPHA
 PQNIVRYSFKERTYKLI GFVNQMAIHF SQVGNLIPKDSDEGRRQHYRDEL VAGSQESVKVVTSDTEILEE
 EEEPKEGEGEGEAEAGEAEAGSQTDVAAAETTEKVIIIEELMAPVQPKERKLTNQFNF SERASQTFNNP
 LRDRQCMEPPPRTNFSATANQWEIYDAYVDELEKLEKTEKEKTKTPVAKKTEKMAMRKL TSMESQSDD
 ITKVTAQAAKIVERMVNQNTYDDVAQDFKYDEDADEYRDQEGTLLPLWKFQNDKAKRLAVTALCWNPKYK
 DLFAVGHGSYDFMKQSRGMLLL YSMKNPSFPEYMFSSSEGIMCLDMHMDHPYL VVVGYYDGNVAIYNLKK
 PHSQPCFRSTSKSGKHTDPVWQVKWQKDDMDHNLNFFSVSSDGRIVSWTLVKSELVHIDV IKLKDEGSTT
 E IPEGLQLHTVGC GTAFDFHKEIDYLFLVGTEEGKIYKCSKSYSSQFLD TYDAHNMVDAV LWNPYHARV
 FISCSSDWTVKIWDHAIKTPMFIYDLNAAVGDVAWAPYSSTVFAAVTTDGKAHVFDLAVNKYEAICNQPV
 VAKKKNKITHVQFNPIHP I IIVGDDRGHITCLKLSPNLRKMPKEKKGQEVQKGP AVEIAKLDKLLNLVRE
 VKTKT

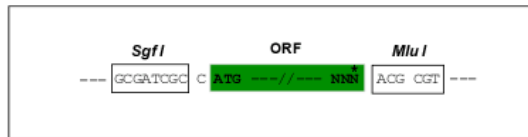
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001024342

ORF Size: 2115 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:

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_001024342.1](#), [NP_001019513.1](#)

RefSeq Size: 2441 bp

RefSeq ORF: 2118 bp

Locus ID: 500442

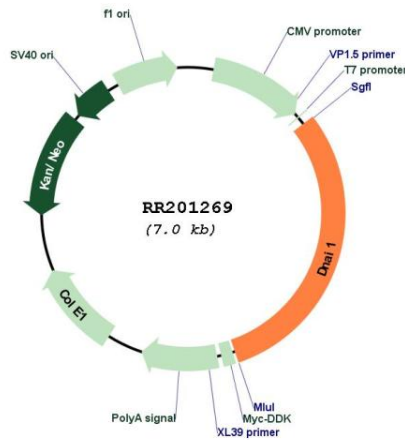
UniProt ID: [Q5XIL8](#)

Cytogenetics: 5q22

MW: 80.1 kDa

Gene Summary: Part of the dynein complex of respiratory cilia.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR201269