

Product datasheet for **RR210449**

Dnai2 (NM_001007726) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnai2 (NM_001007726) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnai2
Synonyms:	Dnaic2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210449 representing NM_001007726
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGATCGTCTACGTGTACGTGAAGAAGCGCAGTGAGTTTGGGAAGCAATGCAACTTCTCTGACCGCC
 AGGCTGAGCTGAACATTGACATCTACCCAACCCCTGAGCTGGCCGCACTGTATGTGGAGCGGAACCCAGT
 GGACACAGGCATCCAGTCTCCGCCAGTATGTCGGAACATGAGGCCAACACAGAGCGTTTGAGATGGAG
 AACTGTGGGGTTAACCACGTGAGGGGGCTGGCCCAAGGATGTGAACCCCAAGGAGCTGGAGCAGACCA
 TCCGCTCCGGAAGAAAGTGGAGAAGGATGAGAATTACATCAACGCCGTCATGCAGCTGGGCTCGATCAT
 GGAGCACTGCATCAAGCAGAACAATGCCATCGACATCTACGAGGAATATTTTGTGACGAGGAGGCCGTG
 GAGGTGACTGAAGAGGCCCTTCAGCCAAGACCATCAATGTCTTCAGGGACCCTCAGGAGATCAAGCGGA
 CAGCCACACACCTCTCCTGGCACCTGATGGTAACAAGAAGCTGGCCGTGGCCTATTCTGCTTGCAGTT
 CCAGCGCTCGCCATGGGCATGAGCCACGACTCCTACATCTGGGACCTGAAAACCCCAACCGACCTGAG
 ATTGCCCTGAAGCCATCGTCTCCTCTCATACCCTGGAGTACAACCCTAAGGATCCACAGTTCTCCTAG
 GGGGCTGCTACAATGGGCAGATAGCCTGCTGGGATACCCGGAAGGGCAGCCTGGTGGCAGAGCTGTCCAC
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 TTCTCAGCGTCCACGGATGGGCAGGTATGTGGTGGGACATCCGCAAGATCAGCGAGCCACCGAAGTTG
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 TACCTTGCCAACCAAGTTCATGGTGGGCACTGAACAAGCATTGTATCTCCTGCAACCGCAAGGCCAAG
 ACGCCAGCGGAGAAGATCGTTTGACCTTTCTGGCCACCACGGCCCTATCTATGCCCTCCAGAGAAACC
 CCTTCTACCCAAAGAACCTTCTGACTGTTGGGCACTGGGCTGCCGCATCTGGTCTGAGGAGAGTCGGGA
 GTCATCTATCATGTGGACCCGGTACCACATGGCTTACCTCTCTGATGGAGCCTGGAGTCCCGTGAGACCA
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 CGCCTGCGGCTCCGAGCTCGGAACAACCACTCTGCTGGAGGTCTCCAGCAGTCTCTACTCTGCAGAGG
 AATGAGAGGAACATAGCTTCTTCCATATTTGACGTGAGACCCGGCGGAAAAGATCCTAGAGGCCAGAC
 ACCGCGAGATGCGGCTGAAGGAGAAAGGCAAGGCAGAGGGCAGAGACGACGACGACGAGGAGGAGGAGAC
 AGCCCTGGACCTCGATGAGCTAGTCAACAAAGCCGAGGAGGAGTCTTTCGAAGTCATCTTCGAGAGCTG
 AAGAGGAAGGAGGAGGAGCCTTGAAGAAGAAACCGAAACCTAAAAAGCAAGTATAGAGGTGGAAGGCG
 AAGATGAGCTGGAAGATATTGCTGGAGAGGAGGAAGAATCCGGCATTCAATGGGTGAAGATACAGGTGA
 AGATGACATGGATGAAAAGAATGAGGGCGGGCCCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210449 representing NM_001007726
 Red=Cloning site Green=Tags(s)

MEIVVVVYKRRSEFGKQCNFSDRQELNIDI SPNPELAALYVERNVPDTGIQCSASMSEHEANTERFEME
 NCGVNHVEGGWPKDVNPQELEQTI RFRKKEVDENYINAVMQLGSIMEHCIKQNNAIIDYEEYFDDEEAV
 EVTEEAPSAKTINVFRDPQEI KRTATHLSWHPDGNKKLAVAYSCLQFQRSPMGMSHDSYIWDLENPNRPE
 IALKPSSPLITLEYNPKDSHVLLGGCYNGQIACWDTRKGSVAELSTIEF SHRDPVYGTIWLQSKTGTEC
 FSASTDGQVMWDIRKISEPTEVVIMDITRKEQLENALGALSLEFESTLPTKFMVGT EQGIVISCNRKAK
 TPAEKIVCTFSGHHGPIYALQRNPFYKPNFLTVGDWAARIWSEESRESSIMWTRYHMAYLSDGAWSPVRP
 AVFFTTKMDGTLDIWDLVFKQCDPALSLKVCDDPLFCLRVQDTGCL IACGSELGTTTTLLEVSSSLSTLQR
 NERNIASSIFERETRREKILEARHREMRLKEKGKAEGRDDDDQKEEETALDLDELVNKAEEEEFFEVIFAEL
 KRKEAEALKKPKPKKASIEVEGEDELEDIAGEEEEESGIIMGEDTGEDDMDEKNEGGAP

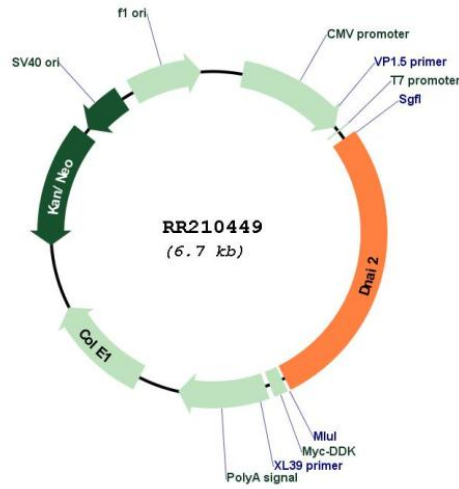
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001007726

ORF Size: 1857 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:	NM_001007726.1 , NP_001007727.1
RefSeq Size:	2923 bp
RefSeq ORF:	1860 bp
Locus ID:	360654
UniProt ID:	Q66HC9
Cytogenetics:	10q32.1
MW:	70.3 kDa
Gene Summary:	Part of the dynein complex of respiratory cilia.[UniProtKB/Swiss-Prot Function]