

Product datasheet for **MR224479**

Dnaic2 (NM_001034878) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnaic2 (NM_001034878) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnaic2
Synonyms:	b2b3405Clo; C030015H18Rik; Dnai2; Gm728
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR224479 representing NM_001034878
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGATCGTCTACGTGTACCTGAAGAAGCGCAGCGAATTTGGGAAGCAATGCAACTTCTCAGATCGCC
 AGGCTGAGCTGAACATCGACATCTTACCCAACCCCGAGCTGGCCGCACTGTATGTGGAGCGGAATCCAGT
 AGACACAGGCATCCAGTCTCCGCCAGTATGTCGGAACACGAGGCCAACCCGAGCGGTTGAGATGGAG
 AGCTGTGGCGTTAATCATGTGAGGGGGCTGGCCCAAGGATGTGAACCCCGAGGAGCTGGAGCAGACCA
 TCCGTTTCCGGAAGAAAGTGGAGAAGGATGAGAACTACATCAACGCCGTCATGCAGCTGGGCTCGATCAT
 GGAGCACTGCATCAAGCAGAACAACGCCATCGACATCTACGAGGAATACTTTGATGACGAGGAGGCCGTG
 GAGGTGACTGAAGAAGCCCCTTCGGCCAAGACCATCAATGTCTTCAGGGACCCTCAGGAGATCAAGCGGA
 CAGCTACACACCTCTCCTGGCACCTGATGGCAACAGGAAGCTGGCAGTAGCCTATTCTGCTTGAAGTT
 CCAGCGCGCACCCATGAGCATGAACTACGACTCCTACATCTGGGACCTGGAAAACCCCAACCGACCTGAG
 ATTGCCCTGAAGCCGTTGTCTCCTCTCGTCACCCTGGAGTACAACCCCAAGGATCCCACGTGCTCCTAG
 GGGGCTGTACAATGGGCAGATAGCCTGTGGGATACCCGGAAGGGCAGCCTGGTGGCAGAGCTGTCCAC
 CATCGAGTTCAGCCACCGAGACCCAGTGTATGGCACCATCTGGCTGCAGTCAAAGACAGGCACTGAGTGC
 TTCTCAGCATCCACTGATGGGCAGGTCATGTGGTGGGACATCCGCAAGATCAGCGAGCCCATCGAAGTTG
 TCATTATGGACATTTCCAGAAAGGAGCAGCTGGAGAACGCCCTGGGCGCCATCTCCTTGGAGTTCGAGTC
 TACCTTGCCAACCAAGTTCATGGTGGGCACCGAACAGGGCATCGTCATCTCCTGCAACCGCAAGGCCAAG
 ACGCAAGCAGAGAAGATTGTTTGCACCTTTATGGCCACCACGGCCCATCTATGCCCTCCAGAGAAACC
 CCTTCTACCCAAAGAATTTCTGACTGTTGGAGACTGGACAGCCCGCATCTGGTCTGAGGACAGTCGGGA
 GTCATCGATCATGTGGACCAAGTACCACATGGCTTACCTCTCCGATGGAGCCTGGAGTCCCTGTGAGACCA
 GCCGTTTTCTTACCACCAAGATGGATGGGACCCTGGACATCTGGGACTTGGTGTCAAGCAGTGTGACC
 CTGCCCTCAGCCTAAAGGTGTGTGATGACCCACTCTTCTGCCTCCGGTTCAGGACAACGGGTGTCTCAT
 CGCGTGTGGTCCGAGCTCGGGACGACCACTCTGCTGGAGGTCTCCAGCAGTCTCTCCACTCTGCAGAGG
 AATGAGAAGAACATAGCTTCTTCCATATTTGAACTGAAACCCGGCGGGAAAAGATCCTGGAGGCCAGGC
 ACCGTGAGATGCGACTGAAGGAGAAAGGCAAGGTGGAGGGCAAAGAGGATGACCAGAAGGAGGAGGAGGC
 AGCCCTGGACCTTGATGAGCTAGTTGGCAAAGCAGAGGAGGAGTCTTTGAAGTCATCTTCTCAGAGCTG
 AAGAGGAAGGAGGAGGAGCCTTGAAGAAGAAACCGAAGCCTAGGAAAAAATCAAGTGTCAAGGTGGAAG
 CCGAAGAGGAAGTGAAGAAAATGTTGGAGAGGAGGAAGAAGCAGGTGGCATAATAGGTATAGATGCAGT
 TGAAGACATGAGTGAAGAAGCAGGTGAAGAGCAAGAGGATGTGCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224479 representing NM_001034878
 Red=Cloning site Green=Tags(s)

MEIVYVYLKKRSEFGKQCNFSDRQAEINIDILPNPELAALYVERNVPDTGIQCSASMSEHEANTERFEME
 SCGVNHVEGGWPKDVNPQELEQTIRFRKKVEKDENVINAVMQLGSIMEHCIKQNNAIIDYEEYFDDEEAV
 EVTEEAPSAKTINVFRDPQEIKRATATHLSWHPDGNRKLAVAYSCLKFQRAPMSMNYDSYIWDLENPNRPE
 IALKPLSPLVTLEYNPKDHSVLLGGCYNGQIACWDTRKGSVLAELSTIEFSHRDPVYGTIWLQSKGTGTEC
 FSASTDGQVMWDIRKISEPIEVVIMDISRKEQLENALGALSLEFESTLPTKFMVGTQGIIVISCNRKAK
 TQAEKIVCTFYGHHGPIYALQRNPFYPKNFLTVDWDTARIWSEDSRESSIMWTKYHMAYLSDGAWSPVRP
 AVFFTTKMDGTLDIWDLVFKQCDPALSLKVCDDPLFCLRVQDNGCLACGSELGTTTTLEVSSSLSTLQR
 NEKNIASSIFERETRREKILEARHREMRLKEKGKVEGKEDDQKEEEAALDLDELVGKAEFFFEVIFSEL
 KRKEAEALKKPKPRKSSVKVEAEVEEENVGEEEEAGGIIGIDAVEDMSEEAGEEQEDVPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9093_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001034878

ORF Size: 1869 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.

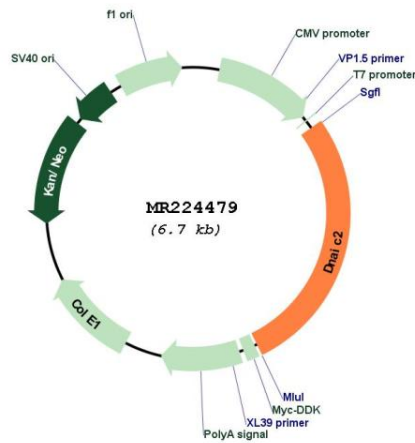
RefSeq: [NM_001034878.3](#)

RefSeq Size: 2871 bp

RefSeq ORF: 1872 bp

Locus ID: 432611
UniProt ID: [A2AC93](#)
Cytogenetics: 11 E2
MW: 71 kDa
Gene Summary: Part of the dynein complex of respiratory cilia.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224479