

Product datasheet for **MG224479**

Dnaic2 (NM_001034878) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dnaic2 (NM_001034878) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dnaic2
Synonyms:	b2b3405Clo; C030015H18Rik; Dnai2; Gm728
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224479 representing NM_001034878
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGATCGTCTACGTGTACCTGAAGAAGCGCAGCGAATTTGGGAAGCAATGCAACTTCTCAGATCGCC
 AGGCTGAGCTGAACATCGACATCTTACCAACCCCGAGCTGGCCGCACTGTATGTGGAGCGGAATCCAGT
 AGACACAGGCATCCAGTCTCCGCCAGTATGTCGGAACACGAGGCCAACCCGAGCGTTTCGAGATGGAG
 AGCTGTGGCGTTAATCATGTGCGAGGGGGCTGGCCCAAGGATGTGAACCCCGAGGAGCTGGAGCAGACCA
 TCCGTTTCCGGAAGAAAGTGGAGAAGGATGAGAACTACATCAACGCCGTCATGCAGCTGGGCTCGATCAT
 GGAGCACTGCATCAAGCAGAACAACGCCATCGACATCTACGAGGAATACTTTGATGACGAGGAGGCCGTG
 GAGGTGACTGAAGAAGCCCCTTCGGCCAAGACCATCAATGTCTTCAGGGACCCTCAGGAGATCAAGCGGA
 CAGCTACACACCTCTCCTGGCACCTGATGGCAACAGGAAGCTGGCAGTAGCCTATTCTGCTTGAAGTT
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 ATTGCCCTGAAGCCGTTGTCTCCTCTCGTCACCCTGGAGTACAACCCCAAGGATCCCACGTGCTCCTAG
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 TTCTCAGCATCCACTGATGGGCAGGTCATGTGGTGGGACATCCGCAAGATCAGCGAGCCCATCGAAGTTG
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 AGCCCTGGACCTTGATGAGCTAGTTGGCAAAGCAGAGGAGGAGTCTTTGAAGTCATCTTCTCAGAGCTG
 AAGAGGAAGGAGGAGGAGCCTTGAAGAAGAAACCGAAGCCTAGGAAAAAATCAAGTGTCAAGGTGGAAG
 CCGAAGAGGAAGTGAAGAAAATGTTGGAGAGGAGGAAGAAGCAGGTGGCATAATAGGTATAGATGCAGT
 TGAAGACATGAGTGAAGAAGCAGGTGAAGAGCAAGAGGATGTGCCACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

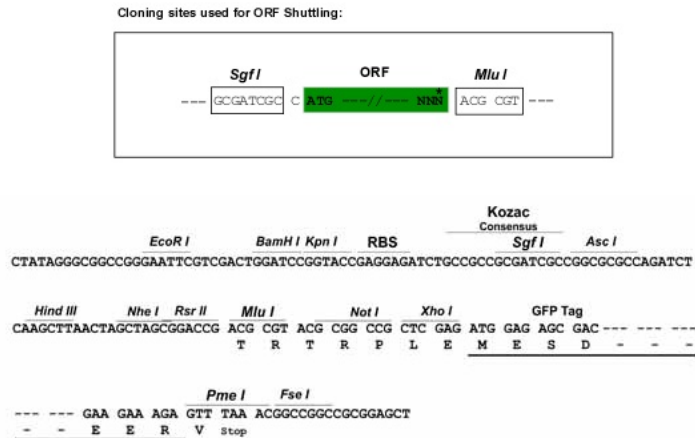
>MG224479 representing NM_001034878
 Red=Cloning site Green=Tags(s)

MEIVVYVYLKKRSEFGKQC�FSDRQAEINIDILPNPELAALYVERNVPDTGIQCSASMSEHEANTERFEME
 SCGVNHVEGGWPKDVNPQEQLEQTIRFRKKVEKDENVINAVMQLGSIMEHCIKQNNAIIDIEEYFDDEEAV
 EVTEEAPSAKTINVFRDPQEIKRATATHLSWHPDGNRKLAVAYSCLKFQRAPMSMNYSYIWDLENPNRPE
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 FSASTDQVMWDIRKISEPIEVVIMDISRKEQLENALGALSLEFESTLPTKFMVGTQEQGIVISCNRKAK
 TQAEKIVCTFYGHHGPIYALQRNPFYPKNFLTVGDWTARIWSEDSRESSIMWTKYHMYALSDGAWSPVRP
 AVFFTTKMDGTLDIWDLVFKQCDPALSLKVCDDPLFLRVQDNGCLACGSELGTTLLLEVSSSLSTLQR
 NEKNIASSIFERETREKILEARHREMLKEKGKVEGKEDDQKEEEAALDLDELVGKAEFFFEVIFSEL
 KRKEAEALKKPKPRKSSVKVEAEVEEENVGEEEEAGGIIGIDAVEDMSEEAGEEQEDVPT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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

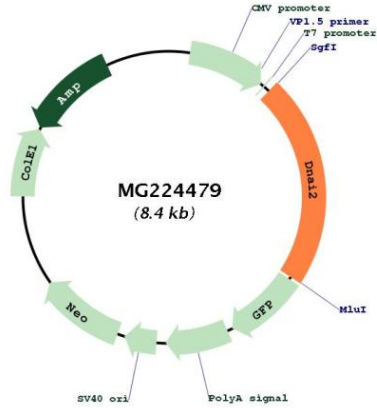
Locus ID: 432611

UniProt ID: [A2AC93](#)

Cytogenetics: 11 E2

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

Product images:



Circular map for MG224479