

Product datasheet for **MR230801**

Dync1i2 (NM_001198872) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dync1i2 (NM_001198872) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dync1i2
Synonyms:	3110079H08Rik; AW554389; Dncic2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>MR230801 representing NM_001198872
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGTCGGACAAAAGTGATTTAAAAGCTGAGTTGGAACGTAAAGCAACGTTGGCCAAATCAGAGAAG
AAAAGAAGAGGAAAGAAGAGGAAAGGAAAAAAGGAAACTGATCAGAAGAAGGAAGCTGCTGTTTCTGT
ACAAGAAGAGTCTGATCTTGAAAAAAGAAAGAGAAGCTGAGGCATTGCTTCAAAGCATGGGACTAACT
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TTTCTGAGTACTGGGTCCTCCTCTATGTCTCCATCCTCAAGTCGGTGAGCAGCCAAGTGAAGCTGG
AAGCCAGGATTCTGGAGATGGCGCCGTGGGATCTAGGACGCTGCATTGGGATACAGATCCATCAGTTCTT
CAGCTTCACTCAGATTCGATTTGGGACGAGGACCTATTAACCTTGAATGGCCAAAATTACTCAAGTTG
ACTTTCCCTCGAGAAATCGTCACATACAAAAGGAACTCAGACCCCGTTACAGCTCAACCCAAAGA
AGATGAGGAGGAGGAAGATGATGTAGCACTCCTAAACCTCCTGTGAACCTGAAGAAGAGAAAACCTTG
AAAAAGACGAAGAGAATGATAGCAAAGCTCCACCTCATGAACTAACTGAAGAAGAAAAGCAACAGATTT
TACACTCAGAAGAATTTTAAGTTTCTTTGACCATTCTACGAGAATTGTAGAAAAGAGCCCTTTCTGAGCA
GATTAACATCTTCTTTGACTACAGTGGGAGAGACTTGAAGACAAAGAAGGGGAGATTCAAGCAGGTGCT
AAGCTGTCATTAATCGACAGTTCTTTGATGAGCGTTGGTCAAAGCATCGAGTTGTTAGTTGTTGGATT
GGTCATCCAGTATCCAGAATTACTTGTGGCTTCTATAATAACAATGAAGAGGCTCCTCATGAGCCTGA
TGGTGTGGCCCTCGTGTGAATATGAAGTACAAAAAACTACCCAGAGTATGTGTTCCACTGCCAGTCA
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CACACACCCTGTCTACTGTGTAATGTTGTTGGAACACAAAATGCTCACAATCTGATTAGCATCTCTACT
GATGGAATAATTTGTTCCCTGGAGTTGGACATGCTTTCCATCCACAGGATAGCATGGAGTTGGTTCATA
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GACGGCATGGGGAGACTGGATCTATGGAATCTCAACAATGACACAGAGGTACCAACTGCCAGCATTCTG
TGGAGGGCAACCTGCTCTTAACCGTGTGAGATGGACCCACTCAGGAAGAGAAATGCCGTGGGTGATTC
TGAAGGACAGATTGTCATCTATGATGTGGGAGAGCAGATCGCTGTTCCCGAAATGATGAATGGGCAAGA
TTTGGCCGAACACTCGCAGAAATTAACGCAAACCGAGCTGACGCAGAGGAGGAGGAGCTACCCGAATCC
CTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230801 representing NM_001198872
 Red=Cloning site Green=Tags(s)

MSDKSDLKAELEKQRLAQIREEKRRKEEERKKKETDQKKEAAVSVQEEEDLEKKRREAEALLQSMGLT
 TDSPIGFLLSESSFNQVDIKLVFSEYWPPMSPSSKSVSTPSEAGSQSDGAVGSRTLHWDTDPSVL
 QLHSDSDLGRGPIKLGMAKITQVDFPPREIVTYTKETQTPVTAQPKEDDEEEEDDVATPKPPVEPEEETL
 KKDEENDSKAPPHELTEEEKQQILHSEEFLSFFDHSTRIVERALSEQINIFFDYSGRDLEDEKEGEIQAGA
 KLSLNRQFFDERWSKRVVSCLDWSSQYPELLVASYNNEEAPHEPDGVALVWNMKYKTTPEYVFCQS
 AVMSATFAKHPNLVVGTYSGQIVLWNRNKRTPVQRTPLSAAATHPVYCVNVVGTQNAHNLISIST
 DGKICSWSLDMLSHPQDSMELVHKQSKAVAVTSMSPVGDVNNFVVGSEEGSVYACRHSKAGISEMFE
 GHQGPITGIHCHAAVGAVDFSHLFVTSSFDTVKLWTTKNNKPLYSFEDNSDYVYDVMWSPHPALFACV
 DGMGRDLWNLNDTEVPTASISVEGNPALNRVRWTHSGREIAGVDSGQIYIYDVGQIAVPRNDEWAR
 FGRTLAEINANRADAEEEAATRIPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

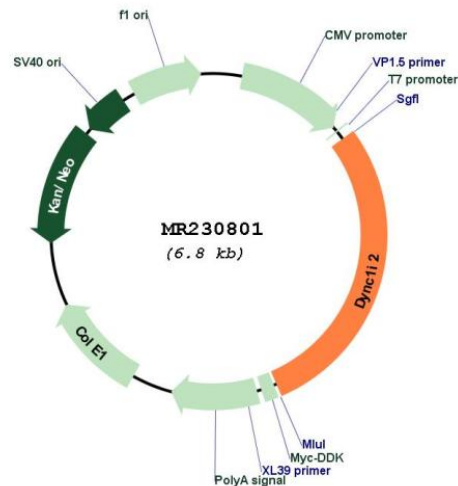
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001198872

ORF Size: 1965 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_001198872.1](#), [NP_001185801.1](#)

RefSeq Size: 2674 bp

RefSeq ORF: 1968 bp

Locus ID: 13427

Cytogenetics: 2 42.38 cM

MW: 73.8 kDa

Gene Summary: Acts as one of several non-catalytic accessory components of the cytoplasmic dynein 1 complex that are thought to be involved in linking dynein to cargos and to adapter proteins that regulate dynein function. Cytoplasmic dynein 1 acts as a motor for the intracellular retrograde motility of vesicles and organelles along microtubules. The intermediate chains mediate the binding of dynein to dynactin via its 150 kDa component (p150-glued) DCNT1. Involved in membrane-transport, such as Golgi apparatus, late endosomes and lysosomes (By similarity).[UniProtKB/Swiss-Prot Function]