

Product datasheet for **MR230696**

Dync1i2 (NM_001198875) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dync1i2 (NM_001198875) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dync1i2
Synonyms:	3110079H08Rik; AW554389; Dncic2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230696 representing NM_001198875
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCGGACAAAAGTGATTTAAAAGCTGAGTTGGAACGTAGAAGCAACGGTTGGCCAAATCAGAGAAG
 AAAAGAAGAGGAAAGAAGAGGAAAGGAAAAAAGGAAACTGATCAGAAGAAGGAAGCTGCTGTTTCTGT
 ACAAGAAGAGTCTGATCTTGAAAAAAGAGAAGAGCTGAGGCATTGCTTCAAAGCATGGGACTAACT
 ACGGACTCCCCTATTGTTTTCTGAGTACTGGTCCCTCCTCTATGTCTCCATCCTCCAAGTCGGTGA
 GCACGCCAAGTGAAGCTGGAAGCCAGGATTCTGGAGATGGCGCGTGGGATCTAGACGAGGACCTATTAA
 ACTTGGAATGGCCAAATTACTCAAGTTGACTTTCCCTCGAGAAATCGTCACATACACAAAGGAACT
 CAGACCCCGTTACAGCTCAACCCAAAGAAGATGAGGAGGAGGAAGATGATGTAGCAACTCTAAACCTC
 CTGTTGAACCTGAAGAAGAGAAAACTTTGAAAAAGACGAAGAGAATGATAGCAAAGCTCCACCTCATGA
 ACTAATGAAGAAGAAAGCAACAGATTTTACACTCAGAAGAATTTTAAAGTTTCTTTGACCATTCTACG
 AGAATTGTAGAAAGAGCCCTTTCTGAGCAGATTACATCTTCTTTGACTACAGTGGGAGAGACTTGGAAAG
 ACAAAGAAGGGGAGATTCAAGCAGGTGCTAAGCTGTCATTAATCGACAGTTCTTTGATGAGCGTTGGTC
 AAAGCATCGAGTTGTTAGTTGTTTGGATTGGTCATCCAGTATCCAGAATTACTTGTGGCTTCTATAAT
 AACAATGAAGAGGCTCCTCATGAGCCTGATGGTGTGGCCCTCGTGTGGAATATGAAGTACAAAAAACTA
 CCCAGAGTATGTGTTCCACTGCCAGTCAGCTGTAATGTCTGCTACATTTGCAAAATTCATCCGAATCT
 TGTTGTTGGAGGTACATATTCAGGCCAGATTGTCTTTGGGATAACCGCAGCAATAAAGAACTCCTGTC
 CAGAGAACGCCGCTGTCAGCTGCTGCACACACACCCCTGTCTACTGTGTAATGTTGTTGGAACACAAA
 ATGCTCACAATCTGATTAGCATCTCTACTGATGGAAAAATTTGTTCTGGAGTTTGACATGCTTTCCCA
 TCCACAGGATAGCATGGAGTTGGTTTATAAACAGTCAAAGGCAGTAGCTGTAACATCTATGTCTTTCCCT
 GTTGGAGACGTCAACAACTTTGTTGTTGGCAGTGAAGAAGTTCTGTGTATACAGCATGCCGCCATGGCA
 GCAAAGCTGGAATCAGTGAGATGTTTGAAGGACACCAGGGACCCATCACTGGAATCCACTGTCACGCGGC
 GTTGGAGCAGTAGACTTCTCACATCTGTTTGTCACTTCGTCTTTTACTGGACAGTTAACTTTGGACA
 ACTAAGAATAACAAGCCTTTGACTCATTTGAAGATAATTCAGACTATGTCTATGATGTTATGTGGTCAC
 CCACCCACCCAGCCCTGTTTGCCTGTGTGGACGGCATGGGAGACTGGATCTATGGAATCTCAACATGA
 CACAGAGGTACCAACTGCCAGCATTTCTGTGGAGGGCAACCCTGCTCTTAACCGTGTGAGATGGACCCAC
 TCAGGAAGAGAAATTGCCGTGGGTGATTCTGAAGGACAGATTGTCATCTATGATGTGGGAGAGCAGATCG
 CTGTTCCCGGAAATGATGAATGGCAAGATTGCGCGAACACTCGCAGAAATTAACGCAAACCGAGCTGA
 CGCAGAGGAGGAGGCAGCTACCCGAATCCCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230696 representing NM_001198875
 Red=Cloning site Green=Tags(s)

MSDKSDLKAELEKQRLAQIREKKRKEEERKKKETDQKKEAAVSVQEEEDLEKKRREAEALLQSMGLT
 TDSPIVFSEYWPPPMSPSSKSVSTPSEAGSQSDGAVGSRGPIKLGMAKITQVDFPPREIVTYTKET
 QTPVTAQPKEDDEEEDDVATPKPPVEPEEEKTLKKDEENDSKAPHEL TEEKQQLHSEEFLLSFFDHST
 RIVERALSEQINIFFDYSGRDLEKEGEIQAGAKLSLNRQFFDERWSKHRVVSCLDWSSQYPELLVASYN
 NNEEAPHEPDGVALVWNMKYKKTTPYVFHCQSAVMSATFAKFPNLVVGTYSGQIVLWNRNSNKRTPV
 QRTPLSAAAHTHPVYCVNVVGTQNAHNLISISTDGKICWSLDMLSHPDQSMELVHKQSKAVAVTSMSP
 VGDVNNFVVGSEEGSVYACRHGSKAGISEMFEHQGPITGIHCHAAVGVDFSHLFTVTSFSDWTVKLWT
 TKNNKPLYSFEDNSDYVYDVMWSPHPALFACVDGMGRDLWNLNNDTEVPTASISVEGNPALNVRVWTH
 SGREIAVGDSQEQIYIVDVEQIAVPRNDEWARFGRTLAEINANRADAEEEAATRIPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001198875

ORF Size: 1854 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

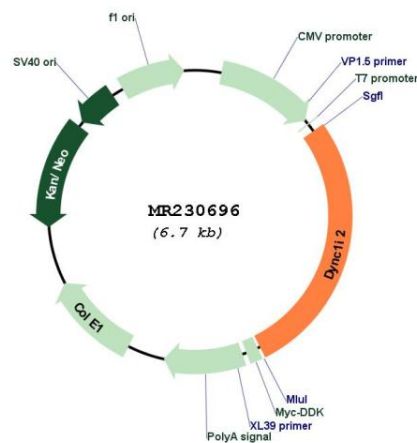
RefSeq: [NM_001198875.1](#), [NP_001185804.1](#)

RefSeq Size: 2563 bp

RefSeq ORF: 1857 bp

Locus ID:	13427
Cytogenetics:	2 42.38 cM
MW:	69.7 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]

Product images:



Circular map for MR230696