

## Product datasheet for **MR230790**

### **Dync1i2 (NM\_001198878) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dync1i2 (NM_001198878) 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



[View online »](#)

ORF Nucleotide  
Sequence:

>MR230790 representing NM\_001198878  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGTCGGACAAAAGTGATTTAAAAGCTGAGTTGGAACGTAGAAGCAACGTTGGCCAAATCAGAGAAG  
AAAAGAAGAGGAAAGAAGAGGAAAGGAAAAAAGGAAACTGATCAGAAGAAGGAAGCTGCTGTTTCTGT  
ACAAGAAGAGTCTGATCTTGAAAAAAGAAAGAGAAGCTGAGGCATTGCTTCAAAGCATGGGACTAACT  
ACGGACTCCCCTATTGAGGATTCTAGCTTCAATCAAGTTGACATAAACTAGTTTTTCTGAGTACTGGG  
TCCCTCCTCTATGTCTCCATCTCCAAGTCGGTGAGCACGCCAAGTGAAGCTGGAAGCCAGGATTCTGG  
AGATGGCGCCGTGGGATCTAGGACGCTGCATTGGGATACAGATCCATCAGTTCTTCAGCTTCACTCAGAT  
TCCGATTTGGGACGAGGACCTATTAACCTTGAATGGCCAAAATTACTCAAGTTGACTTTCCCTCGAG  
AAATCGTCACATACACAAAGGAACTCAGACCCCGTTACAGCTCAACCCAAAGAAGATGAGGAGGAGGA  
AGATGATGTAGCAACTCCTAAACCTCCTGTTGACCTGAAGAAGAGAAAACCTTTGAAAAAGACGAAGAG  
AATGATAGCAAAGCTCCACCTCATGAACTAACTGAAGAAGAAAAGCAACAGATTTTACACTCAGAAGAAT  
TTTTAAGTTTCTTGACCATTCTACGAGAATTGTAGAAAGAGCCCTTCTGAGCAGATTAACATCTTCTT  
TGACTACAGTGGGAGAGACTTGAAGACAAAGAAGGGGAGATTCAAGCAGGTGCTAAGCTGTCATTAAT  
CGACAGTCTTTGATGAGCGTTGGTCAAAGCATCGAGTTGTTAGTTGTTGGATTGGTATCCCAGTATC  
CAGAATTACTTGTGGCTTCTATAATAACAATGAAGAGGCTCCTCATGAGCCTGATGGTGTGGCCCTCGT  
GTGGAATATGAAGTACAAAAAACTACCCAGAGTATGTGTTCCACTGCCAGTCAGCTGTAATGTCTGCT  
ACATTTGCAAAATTTTATCCGAATCTTGTGTTGGAGGTACATATTCAGGCCAGATTGTGCTTTGGGATA  
ACCGCAGCAATAAAGAAGTCTGTCCAGAGAACGCCGCTGTGAGCTGCTGCACACACACACCCCTGTCTA  
CTGTGTAATGTTGTTGGAACACAAAATGCTCACAATCTGATTAGCATCTCTACTGATGGAAAAATTTGT  
TCTGGAGTTTGGACATGCTTTCCATCCACAGGATAGCATGGAGTTGGTTCATAAACAGTCAAAGGCAG  
TAGCTGTAACATCTATGTCTTCCCTGTTGGAGACGTCAACAACCTTGTGTTGGGACGTGAAGAAGGTTT  
TGTGTATACAGCATGCCGCCATGGCAGCAAAGCTGGAATCAGTGAGATGTTTGGGGACACCAGGGACCC  
ATCACTGGAATCCACTGTCACGCGGCTGTTGGAGCAGTAGACTTCTCACATCTGTTTGTCACTTCGTCTT  
TTGACTGGACAGTTAACTTTGGACAATAAGAATAACAAGCCTTTGACTCATTGAAGATAATTCAGA  
CTATGTCTATGATGTTATGTGGTCAACCCACCCAGCCCTGTTGCCTGTGTGGACGGCATGGGAGAG  
CTGGATCTATGGAATCTCAACAATGACACAGAGGTACCAACTGCCAGCATTCTGTGAGGGCAACCCCTG  
CTTTAACCGTGTGAGATGGACCACTCAGGAAGAGAAATGCGGTGGGTGATTCTGAAGGACAGATTGT  
CATCTATGATGTGGGAGAGCAGATCGCTGTTCCCGAAATGATGAATGGGCAAGATTTGGCCGAACACT  
CGAGAAATTAACGCAACCGAGCTGACGCAGAGGAGGAGGCAGCTACCCGAATCCCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230790 representing NM\_001198878  
 Red=Cloning site Green=Tags(s)

MSDKSDLKAELEKQRLAQIREEKRRKEEERKKKETDQKKEAAVSVQEEEDLEKKRREAEALLQSMGLT  
 TDSPIEDSSFNQVDIKLVFSEYVPPMSPSSKSVSTPSEAGSQSDGAVGSRTLHWDTDPVSLQLHSD  
 SDLGRGPIKLGMAKITQVDFPPREIVTYTKETQTPVTAQPKEDDEEEDDVATPKPPVEPEEEKTLKKDEE  
 NDSKAPPHELTEEEKQQLHSEEFLSFFDHSTRIVERALSEQINIFFDYSGRDLEKEGEIQAGAKLSLN  
 RQFFDERWSKHRVVSCLDWSSQYPELLVASYNNEEAPHEPDGVALVWNMKYKTTPEYVFCQSAVMSA  
 TFAKFHPNLVVGTYSGQIVLWDRNSNKRTPVQRTPLSAAATHPVYCVNVVGTQNAHNLISISTDGKIC  
 SWSLDMLSHPQDSMELVHKQSKAVAVTSMSPVGDVNNFVVGSEEGSVYACRHSKAGISEMFEHQGP  
 ITGIHCHAAVAVDFSHLFVTSSFDWTVKLWTTKNNKPLYSFEDNSDYVYDVMWSPHTPALFACVDGMGR  
 LDLWNLNDTEVPTASISVEGNPALNRVRWTHSGREIAVGDESEGQIIVIYDVGQIAVPRNDEWARFGRTL  
 AEINANRADAEEEAATRIPA

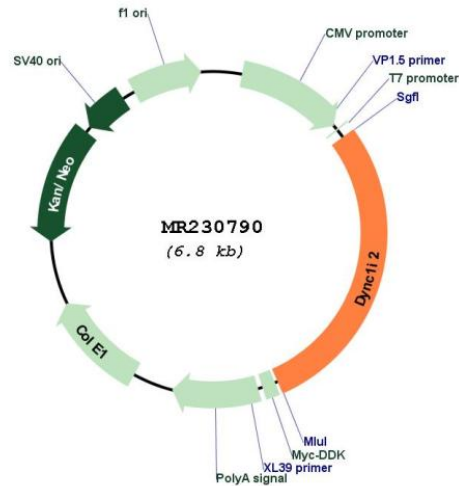
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001198878

**ORF Size:** 1950 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\\_001198878.1](#), [NP\\_001185807.1](#)

RefSeq Size: 2648 bp

RefSeq ORF: 1953 bp

Locus ID: 13427

UniProt ID: [O88487](#)

Cytogenetics: 2 42.38 cM

MW: 73.3 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]