

## Product datasheet for **MR225389**

### **Dync1i2 (NM\_010064) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dync1i2 (NM_010064) 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:**

>MR225389 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGGACAAAAGTGATTTAAAAGCTGAGTTGGAACGTAAGAAGCAACGTTGGCCAAATCAGAGAAG  
 AAAAGAAGAGGAAAGAAGAGGAAAGGAAAAAAGGAAACTGATCAGAAGAAGGAAGCTGCTGTTTCTGT  
 ACAAGAAGAGTCTGATCTTGAAAAAAGAAAGAGAAGCTGAGGCATTGCTTCAAAGCATGGGACTAACT  
 ACGGACTCCCCTATTGTCCCTCCTCTATGTCTCCATCCTCCAAGTCGGTGAGCACGCCAAGTGAAGCTG  
 GAAGCCAGGATTCTGGAGATGGCGCCGTGGGATCTAGACGAGGACCTATTAACCTGGAATGGCCAAAT  
 TACTCAAGTTGACTTTCCCCTCGAGAAATCGTCACATACACAAAGGAAACTCAGACCCCGTTACAGCT  
 CAACCCAAAGAAGATGAGGAGGAGGAAGATGATGTAGCAACTCCTAAACCTCCTGTTGAACCTGAAGAAG  
 AGAAAACTTTAAAAAGACGAAGAGAATGATAGCAAAGCTCCACCTCATGAACTAACTGAAGAAGAAAA  
 GCAACAGATTTTACACTCAGAAGATTTTAAAGTTTCTTTGACCATTCTACGAGAATTGTAGAAAGAGCC  
 CTTTCTGAGCAGATTAACATCTTCTTTGACTACAGTGGGAGAGACTTGGAAAGACAAAGAAGGGGAGATTC  
 AAGCAGGTGCTAAGCTGTCATTAATCGACAGTCTTTGATGAGCGTTGGTCAAAGCATCGAGTTGTTAG  
 TTGTTTGGATTGGTCATCCCAGTATCCAGAATTACTTGTGGCTTCTATAATAACAATGAAGAGGCTCCT  
 CATGAGCCTGATGGTGTGGCCCTCGTGTGGAATATGAAGTACAAAAAATACCCAGAGTATGTGTTCC  
 ACTGCCAGTCAGCTGTAATGTCTGTACATTTGCAAAAATTCATCCGAATCTTGTGTTGGAGGTACATA  
 TTCAGGCCAGATTGTGCTTTGGGATAACCGCAGCAATAAAGAAGCTCCTGTCCAGAGAACGCCGCTGTCA  
 GCTGTGCACACACACACCCTGTCTACTGTGTAATGTTGTTGGAACACAAAATGCTCACAATCTGATTA  
 GCATCTACTGATGAAAAATTTGTTCTGGAGTTTGGACATGCTTTCCCATCCAGGATGATGGA  
 GTTGGTTCATAAACAGTCAAAGGAGTAAAGTAAACATCTATGTCTTTCCCTGTTGGAGAGCTCAACAAC  
 TTTGTTGTGGCAGTGAAGAAGTTCTGTGTATACAGCATGCCGCCATGGCAGCAAGCTGGAATCAGTG  
 AGATGTTTGGGGACACCAGGGACCCATCACTGGAATCCACTGTCACGCGGCTGTTGGAGCAGTAGACTT  
 CTCACATCTGTTTGCACCTCGTCTTTGACTGGACAGTTAAACTTTGGACAATAAGAATAACAAGCCT  
 TTGTAATCATTTGAAGATAATTCAGACTATGTCTATGATGTTATGTGGTCAACCCACCCAGCCCTGT  
 TTGCTGTGTGGACGGCATGGGAGACTGGATCTATGGAATCTCAACAATGACACAGAGGTACCAACTGC  
 CAGCATTTCTGTGGAGGGCAACCCTGCTTAAACCGTGTGAGATGGACCCACTCAGGAAGAGAAATTGCC  
 GTGGGTGATTCTGAAGGACAGATTGTCATCTATGATGTGGGAGAGCAGATCGCTGTTCCCGAAATGATG  
 AATGGGCAAGATTTGGCCGAACACTCGCAGAAATTAACGCAAACCGAGCTGACGCAGAGGAGGAGGCAGC  
 TACCCGAATCCCTGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225389 protein sequence  
 Red=Cloning site Green=Tags(s)

MSDKSDLKAELEKQRLAQIREEKRRKEEERKKKETDQKKEAAVSVQEEESDLEKKRREAEALLQSMGLT  
 TDSPIVPPMSPSSKSVSTPSEAGSQSDGAVGSRGPIKLGMAKITQVDFPPREIVTYTKETQTPVTA  
 QPKEDDEEDDVATPKPPVEPEEEKTLKKDEENDSKAPPHELTEEEKQQLHSEEFLLSFFDHSTRIVERA  
 LSEQINIFFDYSGRDLEKEGEIQAGAKLSLNRQFFDERWSKHRVVSCLDWSSQPELLVASYNNEEAP  
 HEPDGVALVWNMYYKKTTPYVFFHCQSAVMSATFAKFHPNLVGGTYSQIIVLWDNRSNKRTPVQRTPLS  
 AAATHPYVCVNVVGTQNAHNLISISTDGKICSWSLDMLSHPQDSMELVHKQSKAVAVTSMSPVGDVNN  
 FVVGSEEGSVYACRHSKAGISEMFEHQGPITGIHCHAAVAVDFSHLFVTSFSDWTVKLWTTKNNKP  
 LYSFEDNSDYVDVMWSPHPALFACVDGMGRDLWNLNNDTEVPTASISVEGNPALNRVWTHSGREIA  
 VGDSEGIIVYDVGQIAVPRNDEWARFGRTLAEINANRADAEEEEATRIPA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_010064

ORF Size: 1839 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\\_010064.4](#), [NP\\_034194.1](#)

RefSeq Size: 2534 bp

RefSeq ORF: 1839 bp

Locus ID: 13427

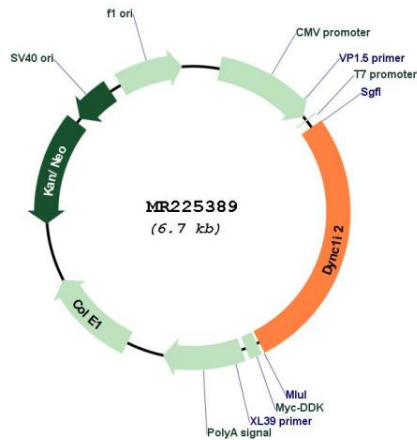
UniProt ID: [O88487](#)

**Cytogenetics:** 2 42.38 cM

**MW:** 68.4 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 MR225389