

## Product datasheet for **MR230802**

### **Dync1i2 (NM\_001198877) Mouse Tagged ORF Clone**

#### **Product data:**

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                           |
| Product Name:      | Dync1i2 (NM_001198877) 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:

>MR230802 representing NM\_001198877  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGTCGGACAAAAGTGATTTAAAAGCTGAGTTGGAACGTAGAAGCAACGTTGGCCAAATCAGAGAAG  
 AAAAGAAGAGGAAAGAAGAGGAAAGGAAAAAAGGAAACTGATCAGAAGAAGGAAGCTGCTGTTTCTGT  
 ACAAGAAGAGTCTGATCTTGAAAAAAGAGAAGCTGAGGCATTGCTTCAAAGCATGGGACTAACT  
 ACGGACTCCCCTATTGGCTTCTCCTTTTTCAGAGGATTCTAGCTTCAATCAAGTTGACATAAACTAGTTT  
 TTTCTGAGTACTGGGTCCTCCTCTATGTCTCCATCCTCAAGTCGGTGAGCACGCCAAGTGAAGCTGG  
 AAGCCAGGATTCTGGAGATGGCGCCGTTGGGATCTAGGACGCTGCATTGGGATACAGATCCATCAGTTCTT  
 CAGCTTCACTCAGATCCGATTTGGGACGAGGACCTATTAACCTTGAATGGCCAAAATTACTCAAGTTG  
 ACTTTCCCTCGAGAAATCGTCACATACAAAAGGAACTCAGACCCCGTTACAGCTCAACCCAAAGA  
 AGATGAGGAGGAGGAAGATGATGTAGCACTCCTAAACCTCCTGTTGAACCTGAAGAAGAGAAAACCTTG  
 AAAAAAGACGAAGAGAATGATAGCAAAGCTCCACCTCATGAACTAACTGAAGAAGAAAAGCAACAGATTT  
 TACACTCAGAAGATTTTAAAGTTTCTTTGACCATTCTACGAGAATTGTAGAAAAGAGCCCTTTCTGAGCA  
 GATTAACATCTTCTTTGACTACAGTGGGAGAGACTTGAAGACAAAGAAGGGGAGATTCAAGCAGGTGCT  
 AAGCTGTCATTAATCGACAGTTCTTTGATGAGCGTTGGTCAAAGCATCGAGTTGTTAGTTGTTGGATT  
 GGTCAATCCAGTATCCAGAATTACTTGTGGCTTCTATAATAACAATGAAGAGGCTCCTCATGAGCCTGA  
 TGGTGTGGCCCTCGTGTGAATATGAAGTACAAAAAACTACCCAGAGTATGTGTTCCACTGCCAGTCA  
 GCTGTAATGTCTGCTACATTTGCAAAATTCATCCGAATCTTGTGTTGGAGGTACATATTCAGGCCAGA  
 TTGTGCTTTGGGATAACCGCAGCAATAAAAGAACTCCTGTCCAGAGAACGCCGCTGTCAGCTGCTGCACA  
 CACACACCCTGTCTACTGTGTAATGTTGTTGGAACACAAAATGCTCACAATCTGATTAGCATCTCTACT  
 GATGGAATAATTTGTTCCCTGGAGTTGGACATGCTTTCCATCCACAGGATAGCATGGAGTTGGTTCATA  
 AACAGTCAAAGGCAGTAGCTGTAACATCTATGTCTTTCCCTGTTGGAGACGTCAACAACCTTTGTTGTTGGG  
 CAGTGAAGAAGTTCTGTGTATACAGCATGCCGCCATGGCAGCAAAGCTGGAATCAGTGAGATGTTGAG  
 GGACACCAGGGACCCACTGGAATCCACTGTCACGCGGCTGTTGGAGCAGTAGACTTCTCACATCTGT  
 TTGTCACCTTCGCTTTTACTGGACAGTAAACTTTGGACAATAAGAATAACAAGCCTTTGACTACTATT  
 TGAAGATAATTCAGACTATGTCTATGATGTTATGTGGTCAACCCACCCAGCCCTGTTGCCTGTGTG  
 GACGGCATGGGGAGACTGGATCTATGGAATCTCAACAATGACACAGAGGTACCAACTGCCAGCATTCTG  
 TGGAGGGCAACCTGCTCTTAACCGTGTGAGATGGACCCACTCAGGAAGAGAAATGCCCGTGGGTGATTC  
 TGAAGGACAGATTGTCATCTATGATGTGGGAGAGCAGATCGCTGTTCCCGAAATGATGAATGGGCAAGA  
 TTTGGCCGAACACTCGCAGAAATTAACGCAAACCGAGCTGACGCAGAGGAGGAGGCAGCTACCCGAATCC  
 CTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230802 representing NM\_001198877  
 Red=Cloning site Green=Tags(s)

MSDKSDLKAELEKQRLAQIREEKRRKEEERKKKETDQKKEAAVSVQEEEDLEKKRREAEALLQSMGLT  
 TDSPIGFLLSESSFNQVDIKLVFSEYWVPPMSPSSKSVSTPSEAGSQSDGAVGSRTLHWDTDPSVL  
 QLHSDSDLGRGPIKLGMAKITQVDFPPREIVTYTKETQTPVTAQPKEDDEEEEDDVATPKPPVEPEEETL  
 KKDEENDSKAPPHELTEEEKQQILHSEEFLSFFDHSTRIVERALSEQINIFFDYSGRDLEKEGEIQAGA  
 KLSLNRQFFDERWSKRVVSCLDWSSQYPELLVASYNNEEAPHEPDGVALVWNMKYKTTPEYVFCQS  
 AVMSATFAKHFHNLVVGTYSGQIVLWNRNKRTPVQRTPLSAAATHPVYCVNVVGTQNAHNLISIST  
 DGKICSWSLDMLSHPDQSMELVHKQSKAVAVTSMSPVGDVNNFVVGSEEGSVYACRHSKAGISEMFE  
 GHQGPITGIHCHAAVGAVDFSHLFVTSSFDTWVTLWTTKNNKPLYSFEDNSDYVYDVMWSPHPALFACV  
 DGMGRDLWNLNDTEVPTASISVEGNPALNRVRWTHSGREIAGVDSGQIIVIYDVGQIAVPRNDEWAR  
 FGRTLAEINANRADAEEEAATRIPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

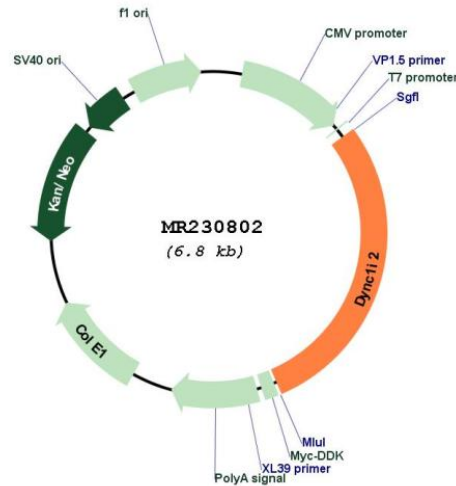
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001198877

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\\_001198877.1](#), [NP\\_001185806.1](#)

RefSeq Size: 2663 bp

RefSeq ORF: 1968 bp

Locus ID: 13427

UniProt ID: [O88487](#)

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]