

Product datasheet for **MC219695**

Dync1i2 (NM_010064) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dync1i2 (NM_010064) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dync1i2
Synonyms:	3110079H08Rik; AW554389; Dncic2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219695 representing NM_010064
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGACAAAAGTGATTTAAAAGCTGAGTTGGAACGTAAAGCAACGGTTGGCCAAATCAGAGAAG
 AAAAGAAGAGGAAAGAAGAGGAAAGGAAAAAAGGAAACTGATCAGAAGAAGGAAGCTGCTGTTTCTGT
 ACAAGAAGAGTCTGATCTTGAAAAAAGAAAGAGAAGCTGAGGCATTGCTTCAAAGCATGGGACTAACT
 ACGGACTCCCCTATTGTCCCTCCTATGTCTCCATCCTCCAAGTCGGTGAGCACGCCAAGTGAAGCTG
 GAAGCCAGGATTCTGGAGATGGCGCCGTGGGATCTAGACGAGGACCTATTAACCTTGGAAATGGCCAAAT
 TACTCAAGTTGACTTTCCCCTCGAGAAATCGTCACATACACAAAGGAAACTCAGACCCCGTTACAGCT
 CAACCCAAAGAAGATGAGGAGGAGGAAGATGATGTAGCAACTCCTAAACCTCCTGTTGAACCTGAAGAAG
 AGAAAACTTTAAAAAGACGAAGAGAATGATAGCAAAGCTCCACCTCATGAACTAACTGAAGAAGAAAA
 GCAACAGATTTTACACTCAGAAGATTTTAAAGTTTCTTTGACCATTCTACGAGAATTGTAGAAAGAGCC
 CTTTCTGAGCAGATTAACATCTTCTTTGACTACAGTGGGAGAGACTTGGAAAGACAAAGAAGGGGAGATTC
 AAGCAGGTGCTAAGCTGTCATTAATCGACAGTCTTTGATGAGCGTTGGTCAAAGCATCGAGTTGTTAG
 TTGTTGGATTGGTCATCCAGTATCCAGAATTACTTGTGGCTTCTATAATAACAATGAAGAGGCTCCT
 CATGAGCCTGATGGTGTGGCCCTCGTGTGGAATATGAAGTACAAAAAATACCCAGAGTATGTGTTCC
 ACTGCCAGTCAGCTGTAATGTCTGCTACATTTGCAAAATTTATCCGAATCTTGTGTTGGAGGTACATA
 TTCAGGCCAGATTGTGCTTTGGGATAACCGCAGCAATAAAGAAGCTCCTGTCCAGAGAACGCCGCTGTCA
 GCTGCTGCACACACACCCTGTCTACTGTGTAATGTTGTTGGAACACAAAATGCTCACAATCTGATTA
 GCATCTACTGATGAAAAATTTGTTCCCTGGAGTTTGGACATGCTTTCCCATCCACAGGATAGCATGGA
 GTTGGTTCCATAAACAGTCAAAGGCAGTAGCTGTAACTATGATGCTTTCCCTGTTGGAGACGTCAACAAC
 TTTGTTGTGGCAGTGAAGAAGTTCTGTGTATACAGCATGCCGCCATGGCAGCAAGCTGGAATCAGTG
 AGATGTTTGGGGACACCAGGGACCCATCACTGGAATCCACTGTCACGCGGCTGTTGGAGCAGTAGACTT
 CTCACATCTGTTTGCACCTTCGCTTTTACTGGACAGTTAACTTTGGACAATAAGAATAACAAGCCT
 TTGACTCATTTGAAGATAATTCAGACTATGTCTATGATGTTATGTGGTCAACCCACCCAGCCCTGT
 TTGCCTGTGTGGACGGCATGGGGAGACTGGATCTATGGAATCTCAACAATGACACAGAGGTACCAACTGC
 CAGCATTTCTGTGGAGGGCAACCCTGCTTAAACCGTGTGAGATGGACCCACTCAGGAAGAGAAATTGCC
 GTGGGTGATTCTGAAGGACAGATTGTCATCTATGATGTGGGAGAGCAGATCGCTGTTCCCGAAATGATG
 AATGGGCAAGATTTGGCCGAACACTCGCAGAAATTAACGCAAACCGAGCTGACGCAGAGGAGGAGGCAGC
 TACCCGAATCCCTGC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_010064

Insert Size: 1839 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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

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]

Transcript Variant: This variant (8; also called 1b.C) differs in the 5' UTR and lacks multiple exons in the 5' coding region, compared to variant 1. Variant 8 encodes a shorter isoform (5), compared to isoform 1. Variants 5 and 8 encode the same protein.