

Product datasheet for **RR216999**

Dync1i2 (NM_001270625) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dync1i2 (NM_001270625) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dync1i2
Synonyms:	Dnci2; Dncic2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR216999 representing NM_001270625
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGACAAAAGTGAATTAAGCTGAGTTGGAACGTAAAGCAACGTTGGCCAAATCAGAGAAG
 AAAAGAAGAGGAAAGAAGAGGAAAGGAAAAAAGAACTGATCAGAAGAAGGAAGCTGCAGTCTCTGT
 GCAGGAAGAGTCTGACCTTGAAGAAGAGAAGAGCCGAAGCCTTGCTTCAGAGCATGGGGCTAACT
 ACAGACTCCCAATTGTCCCTCCTCCCATGTCTCCATCCTCCAAGTCGGTGGAGCAGCAGCAAGTGAAGCTG
 GAAGCCAGGACTCTGGAGATGGCGCCGTGGGATCTAGACGAGGACCTATTAAGTGGAAATGGCCAAAT
 TACTCAAGTCGACTTCCCTCGAGAAATCGTCACATATACAAAGGAACTCAGACCCCGTTACAGCT
 CAACCCAAAGAAGATGAGGAGGAGAAGATGACGTAGCAGCTCCTAAGCCTCCTGTTGAACCTGAAGAAG
 AGAAAAATTTAAAAAAGACGAAGAGAATGATAGCAAAGCTCCCTCATGAACTAACTGAAGAAGAAAA
 GCAACAAATTTACACTCAGAAGATTTTAAGTTTCTTTGACCATTCTACAAGAATTGTAGAAAGAGCC
 CTCTCTGAGCAGATTAACATCTTCTTTGACTACAGTGGGAGAGATTTGGAAGACAAAGAAGGGGAGATTC
 AAGCAGGTGCTAAGCTGTCATTAATCGACAGTTTTTGTGAGCGTTGGTCAAAGCATCGAGTTGTTAG
 TTGCTTGGATTGGTCATCCAGTATCCAGAATTACTTGTGGCTTCTATAATAACAATGAAGAGGCTCCT
 CATGAGCCTGATGGTGTGGCCCTCGTATGGAATATGAAGTACAAGAAAACACCCAGAGTACGTGTTCC
 ACTGCCAGTCAGCTGTAATGTCTGCTACATTTGCAAAATTTATCCAAATCTTGTGTTGGAGGTACATA
 CTCAGGCCAAATGTGCTTTGGGATAACCGTAGCAATAAAGAACCCCGTCCAGAGAACCACCTGTCA
 GCTGCTGCACACACACCCTGTCTACTGTGTAATGTTGTTGGAACACAAAATGCTCATAATCTGATTA
 GCATCTACTGATGAAAAATTTGCTCCTGGAGCTTAGACATGCTTTCCATCCAGGATAGCATGGA
 GTTGGTTCATAAACAGTCAAAGGAGTAGCTAACATCTATGTCTTTCCCTGTTGGAGAGGTCAACAAC
 TTTGTTGTGGCAGTGAAGAAGTTCTGTGTATACAGCATGCCGCCATGGCAGCAAGCCGAATCAGTG
 AGATGTTTGAGGGACACCAGGGACCCATCACGGGAATCCACTGTCACGCAGCTGTTGGCGCAGTAGACTT
 CTCACATCTGTTCTGCTACTTCGCTTTTACTGGACAGTAAAACCTTTGGACAATAAGAATAACAAGCCT
 TTGACTCATTTGAAGATAATTCAGACTATGTCTATGATGTTATGTGGTCAACCCACCCAGCCCTGT
 TTGCTGTGTGGATGGCATGGGAGACTGGATCTATGGAATCTCAACAATGACACAGAGGTGCCACTGC
 CAGCATTTCTGTGAGGGCAACCCTGCCCTAACCGTGTGAGATGGACCCACTCGGAAGAGAGATCGCC
 GTGGGTGATTCTGAAGGACAGATTGTCATATATGATGTGGCGAGCAGATCGCTGTTCCCGAAATGATG
 AATGGGCAAGATTTGGCCGAACACTCGCAGAGATTAACGCAAGCCGAGCTGATGCAGAGGAGGAAGCGGC
 TACCCGGATTCCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216999 representing NM_001270625
 Red=Cloning site Green=Tags(s)

MSDKSELKAELEKQRLAQIREEKRRKEERKKKETDQKKEAAVSVQEEESDLEKKRREAEALLQSMGLT
 TDSPIVPPMSPSSKSVSTPSEAGSQSDGAVGSRGPIKLGMAKITQVDFPPREIVTYTKETQTPVTA
 QPKEDDEEDDVAAPKPPVEPEEEKILKKDEENDSKAPPHELTEEEKQQLHSEEFLLSFFDHSTRIVERA
 LSEQINIFFDYSGRDLEKEGEIQAGAKLSLNRQFFDERWSKHRVVSCLDWSSQPELLVASYNNEEAP
 HEPDGVALLVNMKYKKTPEYVFHCQSAVMSATFAKFHPNLVGGTYSQIIVLWDNRSNKRTPVQRTPLS
 AAATHPYVCVNVVGTQNAHNLISISTDGKICSWSLDMLSHPQDSMELVHKQSKAVAVTSMSPVGDVNN
 FVVGSEEGSVYACRHSKAGISEMFEHQGPITGIHCHAAVAVDFSHLFVTSFDDWTVKLWTTKNNKP
 LYSFEDNSDYVDVMWSPHPALFACVDGMGRDLWNLNNDTEVPTASISVEGNPALNRVWTHSGREIA
 VGDSEGIIVYDVGQIAVPRNDEWARFGRTLAEINASRADEEEAATRIPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3043_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001270625

ORF Size: 1836 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001270625.1](#), [NP_001257554.1](#)

RefSeq Size: 2743 bp

RefSeq ORF: 1839 bp

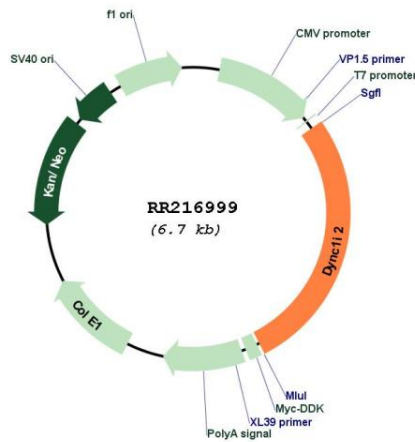
Locus ID: 116659

Cytogenetics: 3q22

MW: 68.4 kDa

Gene Summary: intermediate chain of cytoplasmic dynein, a retrograde microtubule motor thought to be involved in organelle transport [RGD, Feb 2006]

Product images:



Circular map for RR216999