

Product datasheet for **SC110872**

DYNC112 (NM_001378) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DYNC112 (NM_001378) Human Untagged Clone
Tag:	Tag Free
Symbol:	DYNC112
Synonyms:	DIC74; DNCI2; IC2; NEDMIBA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001378, the custom clone sequence may differ by one or more nucleotides

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ATGTCAGACAAAAGTGAATTAAGGCTGAGTTGGAACGTAAGAAGCAGCGACTGGCCAAATCAGAGAGG
AAAAGAAGAGAAAAGAAGAAGAAAAGAAAAAAGAAACAGACCAGAAGAAGGAAGCTGTTGCTCCTGT
GCAAGAAGAATCAGATCTTGAAAAAAGGAGAGAAGCTGAAGCATTGCTTCAAAGCATGGGGCTAACT
CCAGAATCCCCATTGTTTTCTGAATACTGGGTCCCTCCTCCTATGTCTCCATCCTCCAAATCTGTGA
GCACTCCAAGTGAAGCTGGAAGCCAAGACTCTGGAGATGGCGCCGTGGGATCTAGACGCTGCATTGGGA
TACAGATCCATCAGTTCTTCAGCTTCACTCAGATTCCGATTTGGGACGAGGACCTATTAACCTGGAATG
GCTAAAATCACGCAAGTCGACTTTCCTCCTCGAGAAATTGTCACGTATACAAAGGAACTCAGACTCCAG
TTATGGCTCAACCCAAAGAAGATGAAGAGGAAGATGATGATGTAGTGGCTCCTAAACCACCTATTGAACC
TGAAGAAGAGAAAACCTTAAAGAAAGATGAGGAAAATGATAGTAAAGCTCCCCCTCATGAGCTGACTGAA
GAAGAAAAGCAACAAATCTGCACTCTGAGGAATTTTTAAGTTTCTTTGACCATTCTACAAGAATTGTAG
AAAGAGCTCTTTCTGAGCAGATTAACATCTTCTTTGACTATAGTGGGAGAGATTTGGAAGACAAAGAAGG
AGAGATCAAGCAGGTGCTAAACTGTCATTAATCGACAATTTTTGACGAACGTTGGTCAAAGCATCGG
GTGGTTAGTTGTTGGATTGGTCATCTCAGTATCCGGAGTTACTCGTGGCTTCTATAACAACAATGAAG
ATGCCCTCATGAGCCTGATGGTGTGGCCTTGTATGGAATATGAAATACAAAAAACTACCCAGAGTA
TGTGTTTCACTGCCAGTCAGCTGTGATGTCTGCCACATTTGCAAAATTCATCCAAATCTTGTGTTGGT
GGTACATATTCAGGCCAAATGTGCTTTGGGATAACCGTAGCAATAAAGAAGCTCCAGTGCAAAAGAACTC
CACTGTCAGCAGCTGCACACACACACCTGTATATTGTGTAATGTTGTTGGAACACAAAATGCTCACAA
TCTGATTAGCATCTCTACTGATGAAAAATTTGTTTTCATGGAGTCTGGACATCTATGTCCTCCCTGTTGGAGT
TCAACAACCTTTGTTGTTGGGAGTGAAGAAGTTCTGTGTACACAGCATGCCGCCATGGCAGCAAAAGCTGG
AATCAGTGAGATGTTTGGGGCATCAAGGACCAATCACTGGCATCCATTGTCATGCAGCTGTTGGAGCA
GTAGACTTCTCACATCTTTTTGCACTTTCATCGTTTACTGGACAGTAAAGCTTTGGACAATAAGAATA
ACAAGCCTTTGTATTCAATTTGAAGATAATGCAGACTATGTTTATGATGTTATGTGGTACCTACCCACCC
AGCCCTGTTTGCCTGTGTGGATGGCATGGGAGATTGGATTTGTGGAATCTCAATAATGACACAGAGGTA
CCAAGTCCAGCATTTCTGTGGAGGTAATCCTGCTCTAATCGTGTGAGATGGACCATTCTGGCAGAG
AGATTGCTGTGGGTGATTCTGAAGGACAGATTGTTATATACGATGTGGGAGAGCAGATTGCTGTTCCCG
CAATGATGAATGGGCACGTTTGGCCGAACACTTGCAGAAATTAATGCAAACCGAGCTGATGCAGAGGAG
GAAGCAGCTACCCGAATACCTGCTTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001378 unedited

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CACGAGGCCTCGTGCCGAATTCGGCACGAGGGTTTGAAGGCGAGGGCGGAAGTTGGATT
CCTGGCCTGAGAAATATTAGGCGTAGTTTTCCAGTTTTTGGCAAAGCGAAATACTTAAGG
CCCTGGGTTGACTGGGTCTTTGTTTTATCTACCGCTTCTGCTTACGACAGGTCACA
AACATGTCAGACAAAAGTGAATTAAGGCTGAGTTGGAACGTAAGAAGCAGCGACTGGCC
CAAATCAGAGAGGAAAAGAAGAGAAAAGAAGAAAAGAAAAAAGAAAACAGACCAG
AAGAAGGAAGCTGTTGCTCCTGTGCAAGAAGAATCAGATCTTGAAAAAAGGAGAGAA
GCTGAAGCATTGCTTCAAAGCATGGGGCTAACTCCAGAATCCCCATTGCTGAGCAACCT
CTCCGTGTAGTAACAGCGGATACCTGTCTATTTCACTATTTAGTCCCTCCTCCTATGTCT
CCATCCTCCAAATCTGTGAGCACTCCAAGTGAAGCTGGAAGCCAAGACTCTGGAGATGGC
GCCGTGGGATCTAGACGAGGACCTATTAACCTTGAATGGCTAAAATCACGCAAGTCGAC
TTTCTCCTCGAGAAATGTGACGTATACAAAGGAACTCAGACTCCAGTTATGGCTCAA
CCCAAAGAAGATGAAGAGGAAGATGATGATGTAGTGGCTCCTAAACCACCTATTGAACCT
GAAG
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_001378 unedited NGGTAAAAGTATGTACGCGGCCGCAATCNAGGATCGAGTTTTTTTTTTTTTTTTTTTTTAA CGCATATTTGTTTTATTTATAGGTAACCTACCACATGAATTATAAAGACAACAAAGGATG TCAGAATGAACATGGATAGGTGTATGCATACTACGGCTAAGGAGAAACAATGTTCTCACA TATTATGGGTAGTGAGAACATTATCTGTATAACAGGGAAGTGTGATTATTTAAAAATATG CAGAATTATTTTCATCTGTGCTTTAGAAATAACTGTATACAGTGTATAAGTTGAAAAGA ACTCAAATAACTAATACCAAATATACACCTATGTATTAGAATTCAAAAAGCTGCTTTC TGTGAAGTCAATCAGCTATATTAATAAATGACACAAATCCAAAAACAAGATGCATGTTATA TATAAAGGGACATTGTAAGTTTCCTTGCTGCATTAACCCATGGTTTAATCCATGAAATT TCCTTTTAATTATCATTAGACAGAAGCATGCAAATAGTCTCAGGATCTACTTAAGAACC TTTCCAAATCCACTAGTTACACTCCCCTTTTCAGGAACTAAGCAGGTATTCGGGTAGCT GCTTCCTCCTCTGCATCAGCTCGGTTTGCATTAATTTCTGCAAGTGTTCGGCCAAACCGT GCCATTATCATTGCGGGGAACAGCAATCTGCTCTCCACATCGTATATAACAATCTGT CCTTCAGAATCACCCACAGCAATCTCTGCCAGAATGGGTCCATCTCACAGGATTAAGA GCAGGATTACCCTCCACAGAAATGCTGGCAGTTGGTACCTCTGTGTCATATTGAAGATCC ACAAATCCAATCTTCCCATGCCATCCCACACAGGCAACAGGGCTGGGGTGGGTAGGTGAC ACCTTACATCATAA
Restriction Sites:	NotI-NotI
ACCN:	NM_001378
Insert Size:	2750 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:	<ol style="list-style-type: none"> 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:	<u>NM_001378.1</u> , <u>NP_001369.1</u>
RefSeq Size:	4414 bp
RefSeq ORF:	1917 bp
Locus ID:	1781
UniProt ID:	<u>Q13409</u>
Cytogenetics:	2q31.1
Domains:	WD40

Gene Summary:

This gene encodes a member of the dynein intermediate chain family. The encoded protein is a non-catalytic component of the cytoplasmic dynein 1 complex, which acts as a retrograde microtubule motor to transport organelles and vesicles. A pseudogene of this gene is located on chromosome 10. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Both variants 1 and 2 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.