

Product datasheet for RR205295

Cenpu (NM_001025673) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cenpu (NM_001025673) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cenpu
Synonyms:	Mlf1ip
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR205295 representing NM_001025673 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTCGGAGAAGTTTGAGATACTCGGGGACCCCGGTGCAAAACGTTCAAGGAACACATTGGGAA
GCACAAATTCAGGAAACAGAAAGCTGGTCAGAAGCCCAAGCGCAAGGATGTGTTGACTTTCCTAATAC
ATCCGATGTCTCAAGCATGCTGAGAGAAGCTGAGGAAGAAGAACCTTACGAAACCTTCGACCCCCCTCTG
CACAGCACTGCTATCTACACAGATGATGAGCTCTACAAGCACTGTGTGCTCCACCTCCCAGCTACCC
ACAGAGGAAAGGAGAGCAGAACTTGAACCTTCTGAAAATGAAGCAAGTGGAAATGATTCGATAAAGCT
CAGTGCAAAAAAGCCAAGGAGAAAGCTGGAGCCCATCAGCGATGAGTCCGACAGCTCTGAAGACAACGTA
AGGAGATCGGTGTCTATAGAACGACCGAGGGCAGCAAGCCCCGGCTGCTCCTGCAGCAGCGTCCCTCGT
CGTCGTCACCCCTCTGAGAGGCCAGCAGAACAGGTCACTCCTCGGAAGACGAGCTTCCCTCAGCCCTCTGC
TGTGGAGGAGACTCCAGCAGCACAGAGTCAGCTGAAAACCTCAGAAGAAAGTCAGGCCATCTCCTGGCAGG
AGGAAGAGACCAAGGCGTGGATCCACACACTCAGATGCTTCTGAAAGCATGCATATTTGTGCTCTGGAAG
GAAAGAGACAGAGTGACGTCATGGAGTTGGATGTTGTTTTGTCTGCATTTGAGAGAAGCTTCTGGACTA
TAAGCAAAGAGTTGAATCTGAAAGTTGTAATCAAGCCATCAGCAAATTTTATTTTAAAATTAAGGAGAA
CTCATCAGAATGCTTAAAGAAGTCCAGATGCTAAAAGCCCTGAAAAGGAAGAACAATAAGATAATCTCCA
ACATGGAAAAGAAAAGACAGCGTTTAATTGATGTCCAGGATGAACTGATTCGATTAGAACCACAAGTAA
ACAACACTACAAACAAAATATGACGACCTTAAAGAAGAAAGTCAGCACTTAAAGAAATCCAAGCATTCTTA
TCTAATTTAAAACAGCTGTATCAAGATTATCCAATGTTTCGAGAAGAAGAACCAAGGAAAAGGAAAAAT
ATGATTCTAGCCTTCCAGCTCTGTTATTTAAAGCAAGAAGCATTCTGGGAGCTGAAAAACACCTGAA
AACCATCAATTATCATCTGGGGAAGCTCCTTAAGCAGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR205295 representing NM_001025673
 Red=Cloning site Green=Tags(s)

MAARRSLRYSGDPGAKRSRNTLSTNSRKQKAGQKPKRKDVDFPNTSDVSSMLRELEEEEPYETFDPPL
 HSTAIYTDEL YKHCVSSTSPATHRGKESRNLNPSENEASGNDSIKL SAKKPRRKLEPISDESSEDNDV
 RRSVSIERPRARKPPAAPAAASSSSSPSERPAEQVTPRKTSFQPQSAVEETPAAQSQLKTQKKVSPGR
 RKRPRRGSTHSDASESMHILCLEGKRQSDVMELDVVLSAFERTFLDYKQRVESESCNQAI SKFYFKIKGE
 LIRMLKEVQMLKALKRKNTKIIISNMEKKRQLIDVQDELIRLEPQLKQLQTKYDDLKRRKSALKNSKHFL
 SNLKQLYQDYSNVREEEPKEKEKYDSSSLPALLFKARSILGAEKHLKTINYHLGKLLKQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

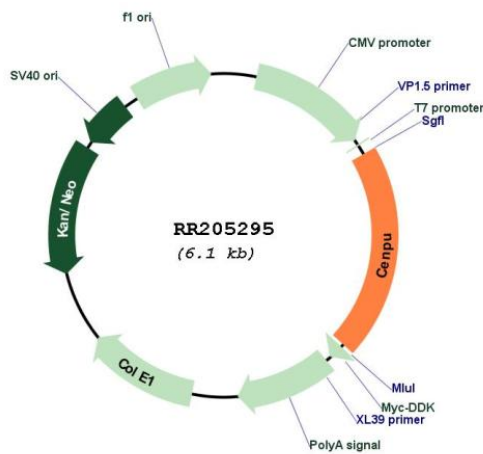
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001025673

ORF Size:	1230 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:	<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:	NM_001025673.1 , NP_001020844.1
RefSeq Size:	1633 bp
RefSeq ORF:	1233 bp
Locus ID:	306464
UniProt ID:	Q4V8G7
Cytogenetics:	16q11
MW:	46.8 kDa
Gene Summary:	Component of the CENPA-NAC (nucleosome-associated) complex, a complex that plays a central role in assembly of kinetochore proteins, mitotic progression and chromosome segregation. The CENPA-NAC complex recruits the CENPA-CAD (nucleosome distal) complex and may be involved in incorporation of newly synthesized CENPA into centromeres. Plays an important role in the correct PLK1 localization to the mitotic kinetochores. A scaffold protein responsible for the initial recruitment and maintenance of the kinetochore PLK1 population until its degradation. Involved in transcriptional repression (By similarity).[UniProtKB/Swiss-Prot Function]