

## Product datasheet for **MG219880**

### Cenpu (NM\_027973) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cenpu (NM_027973) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cenpu
Synonyms:	1700029A22Rik; Mlf1ip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219880 representing NM_027973 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCAAGGAGAAGTTTGAGATACTCGGGAAACCCGGGTGCAAAACATTCAAAGAACACTTTGAGAA  
GCACATATTCAGGAAACAGAAAGCTGGTCCAAAGCCCCGGCCCAAGGATGTGTTTGACTTTTCTAATAA  
TTCTGCTGCCTCAAGCATACCGGGAGCACTCGAGGAAGAAGAGGAGACTTACGAAACCTTCGACCCCT  
CTGCACAGTACGGCTATCTACGCAGAAGACGAGCTGTCCAAACACTGTGTGTCTCCAGTTCCTGGCCA  
CCCACAGAGGGAAGGCGAGCAGAAACTTGACCCTTCTGAAGATGAAGCAAGTGGAAATGAGTCTATCAA  
GGTCAGCACAAAAAGCCAAGGAGAAAGCTGGAGCCCATCAGCGCGAGTCGGACAGCTCTGCAGATGAT  
GTAAGGAGGAGGGTGGCATCTGCAGAAGGACCAAGGTCACAGCAACGCCAGGCTGCTCCTGCAGCACCGT  
CACCCCTGAGAGGCCAGCCGAGCCGGTCACTCCAGGAGGACAAGACTCCACAGCGCTCAGCTCTCTCC  
TGTAGACGAGACACCAGCAACCCAAAGTCAGTGAAAACCTCAGAAGAAAGTGCAGCCGCTCCTGGCAGG  
AGGAAGAGACCAAGGCGCGGACACACAGACACAGATGGTCTGAAAGTATGCATATCTGGTGTCTGGAAG  
GAAAGAGACAGAGTGACATAACGGAGTTGGATGTTATTCTGTCTGATTTGAGAAAACCTTCTGGAGTA  
TAAGCAAAGAGTAGAATCTGAAAGTTGTAATCAAGCCATCAACAAGTTTTATTTAAAATGAAAGGAGAA  
CTCATCAGAATGCTTAAAGAAGCCAGATGTTAAAAGCCCTGAAAATGAAGAACAACCAAGATAATTGCCA  
ACATGGAAAAGAAAAGGACGCTTTAATTGAAGTCCAGGATGAACTGATTCGATTAGAACCACAACACTGAA  
ACAACACAAAACAAAATATGATGACCTTAAAGGAGAGAAAGTCATCACTTAAAGTCCAAGCATTCTTA  
TCTAATTTAAACAGCTGTGTCAAGATTATTCAAACGTTCAAGAGAAAGGACCAAGGGAACGGGAAAGT  
ATGATTCATCTAGCCTTCAGCTCTGTTATTTAAAGCAAGAAGCATTCTGGGCGCCGAAAACCACTGAG  
AACCATCAACTATCAGCTGGGAAGCTTCTCGAGCTGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG219880 representing NM\_027973  
 Red=Cloning site Green=Tags(s)

MAARRSLRYSGNPGAKHSKNTLRSTYSRKQKAGPKPRPKDVFDFSNNSAASSIPGALEEEEEETETFDPP  
 LHSTAIYAEDLSKHCVSSSSLATHRGKASRNLDPSEDEASGNESIKVSTKKPRRLEPISGESDSSADD  
 VRRRVASAEGRSQQRQAAPAAPSPPERPAEPVTPRRTRLHSAQLSPVDETPATQSQLKTQKKVVRPSPGR  
 RKRRPRRGHTDTDGSESMHIWCLEGRQSDITELDVILSVFEKTFLEYKQRVESSECNQAINKFYFKMKGE  
 LIRMLKEAQLKALKMKNTKIIANMEKKRQLIEVQDELIRLEPQLKQLQTKYDDLKERKSSLKSKHFL  
 SNLKQLCQDYSNVQEKGPKGTKYDSSSLPALLFKARSILGAENHLRTINYQLGKLLLELD

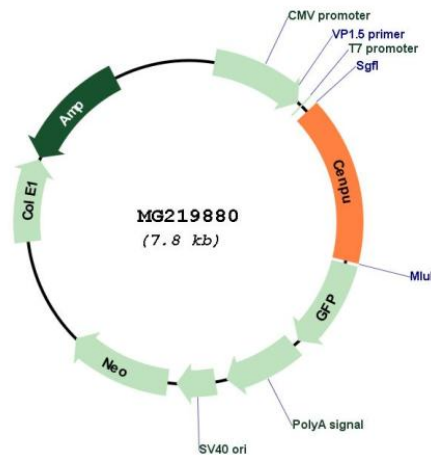
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_027973

<b>ORF Size:</b>	1230 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_027973.3</a> , <a href="#">NP_082249.1</a>
<b>RefSeq Size:</b>	2467 bp
<b>RefSeq ORF:</b>	1233 bp
<b>Locus ID:</b>	71876
<b>UniProt ID:</b>	<a href="#">Q8C4M7</a>
<b>Cytogenetics:</b>	8 B1.1
<b>Gene Summary:</b>	<p>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]</p>