

Product datasheet for **MG204145**

Cenpo (NM_134046) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cenpo (NM_134046) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cenpo
Synonyms:	2810429O05Rik; 8430427C03Rik; D12Ert482e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204145 representing NM_134046 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCTGCAAATACTTTGTGTCCAGGCAGGAAGTGCAAAGGAGGTGTTTTAGCTCACCTGGAAAGAC
TAGAGGCTCAAACGAACGTATCGAATAGAAAGTCTGAAGAACCAACAGTTCGTA AAAAGGAAAGTTCTCT
TAGAACCAAGATTCGCGAACTGCGGCAACAACGAGATAAGCTGAGGGCAGAAGTGAAGCAGTGGGAGCC
AGAGTTAAAGAACCTCTGCCAAAGAAGACCCAAGCAGAACCGTGATCAGTGAACAGGAAGTTCTGGAAA
GGGAGTGGAGAAATGTGGACGCCATTCTGGAGGCATATCGCTTACGGGGCTCAGCGGGAAGTTGACCAG
TCGTGGCGTCTGCATGTGCATCAGCACAGCCTTTGAGGGGAACCTACTAGATTCTACTTTGTGGACCTT
GTCATAGAGAAACCACTCCGGATTATCACCATTCCGTCCAGTCTTCATCCCTCTGGAAAAGATAGCCG
CAGCACACCTACAGACTGATGTTTCAGCGCTTCTGTTAGTCTCTGGGCATACCTAAATGCCTACCGGG
GAGGAAGTACCAGGCAGACCAACTTGAGAGTGACTTCTGCGATGTCCTCACGGGACCTTTGCAGAGAAA
GCCCTGTGCAACTTGCTGCTGTTACCTATAAAGTGGAACAGAGATGCCAGACCTTCTCCTTCAGTGCCA
GGTTGCTGTATGAGGACCCACAGCAGCTTCCCACGAATGTCAGTGTGACAAGGCCAGGTGTGGAGGC
ATCATCCCCTCCTTGGGAAGAGCACAGAGCATCCCATCAGATGCTTCCGTACCAAGCCCTGCACAAG
GTGTTTGCTTCATTTTCAAAGAAACCGAAAAGCTGCATTTGAACCTGGTCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204145 representing NM_134046
Red=Cloning site Green=Tags(s)

MESANTLCPGRKCKGGVLAHLERLEAQTNVSNRKSEPTVRKKESLRTKIRELRQQRDKLRAEVKQWGA
RVKEPPAKEDPSRTVISEQEVLEREWNVDAILEAYRFTGLSGKLT SRGVCMCISTAFEGNLLDSYFVDL
VIEKPLRIHHHSVPVFI PLEKIAAAHLQTDVQRFLFSLWAYLNAYAGRKYQADQLESDFCDVLTGPLQRN
ALCNLLSFTYKVEQRCQTF SFSARLLYEDPTAALPTNVTVTRPGVEASSPPWEEHRASHQMLFRTKPLHK
VFASFSKETEKHLHLNLVS

TRTRPLE - GFP Tag - V

Restriction Sites:

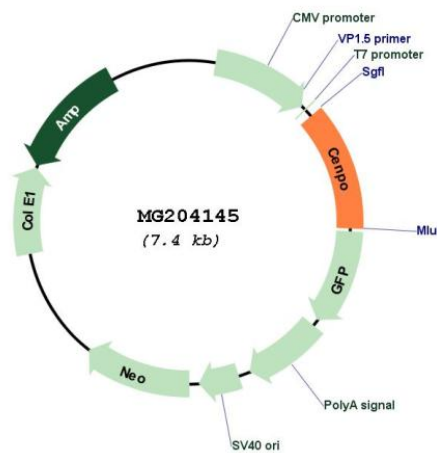
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_134046

ORF Size: 894 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_134046.1
RefSeq Size:	4344 bp
RefSeq ORF:	897 bp
Locus ID:	52504
UniProt ID:	Q8K015
Cytogenetics:	12 2.02 cM
Gene Summary:	Component of the CENPA-CAD (nucleosome distal) complex, a complex recruited to centromeres which is involved in assembly of kinetochore proteins, mitotic progression and chromosome segregation. May be involved in incorporation of newly synthesized CENPA into centromeres via its interaction with the CENPA-NAC complex. Modulates the kinetochore-bound levels of NDC80 complex (By similarity).[UniProtKB/Swiss-Prot Function]