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Product datasheet for MR227913

Cenpa (NM_001302132) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cenpa (NM_001302132) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cenpa
Synonyms:	Cen; Cenp-A
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR227913 representing NM_001302132 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGCCCGCGTCGCAAACCGCAGACCCCAAGGAGGAGACCCTCCAGCCCGGCGCCTGGACCCTCGCGAC AGAGCTCCAGTGTAGGCTCTCAGACACTGCGCAGAAGACAGAAATTCATGTGGCTTAAGGAAATCAAGAC CCTGCAGAAGAGCACAGACCTCTTGTTCAGGAAGAAGCCTTTCAGCATGGTTGTTAGAGAAATATGTGAG AAGTTCAGCCGTGGTGTGGATTTTTGGTGGCAAGCCCAGGCCTTGTTGGCCCTTCAGGAGACATTACCTG GAAGCTTTTGGAGTTGCAGCTTGACAGTGGTGTCGGAGGAGCTGGCTGGGTTTTGCTGTTTT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR227913 representing NM_001302132 Red=Cloning site Green=Tags(s) MGPRRKPQTPRRRPSSPAPGPSRQSSSVGSQTLRRRQKFMWLKEIKTLQKSTDLLFRKKPFSMVVREICE KFSRGVDFWWQAQALLALQETLPGSFWSCSLTVVSEELAGFCCF TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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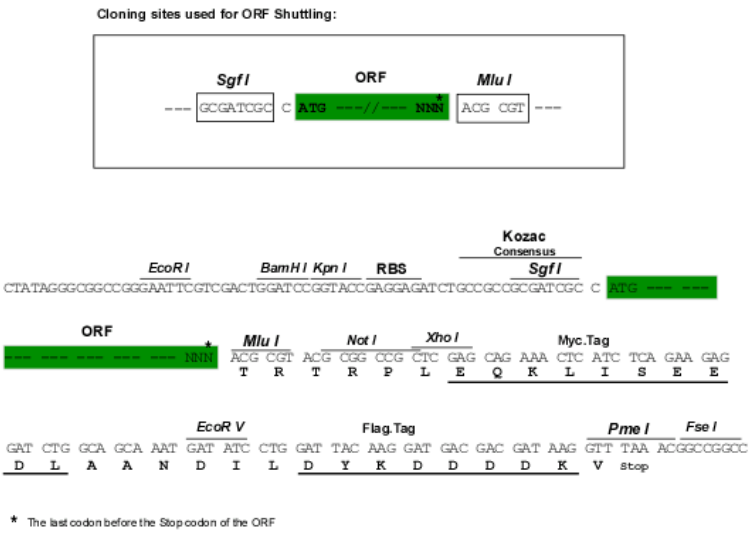
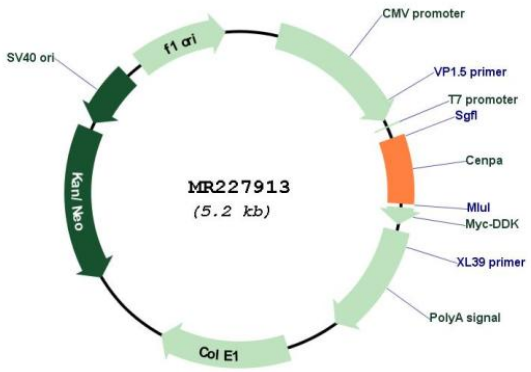
Cloning Scheme:



Plasmid Map:



ACCN: NM_001302132

ORF Size: 342 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:	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_001302132.1, NP_001289061.1
RefSeq Size:	1213 bp
RefSeq ORF:	345 bp
Locus ID:	12615
UniProt ID:	O35216
Cytogenetics:	5 16.76 cM
MW:	13.6 kDa
Gene Summary:	Centromeres are the differentiated chromosomal domains that specify the mitotic behavior of chromosomes. This gene encodes a centromere protein which contains a histone H3 related histone fold domain that is required for targeting to the centromere. Centromere protein A is proposed to be a component of a modified nucleosome or nucleosome-like structure in which it replaces 1 or both copies of conventional histone H3 in the (H3-H4)2 tetrameric core of the nucleosome particle. The protein is a replication-independent histone that is a member of the histone H3 family. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Nov 2015]