Product datasheet for RC201047

CENPM (NM_024053) Human Tagged ORF Clone

Product data:

|	
Product Type:	Expression Plasmids
Product Name:	CENPM (NM_024053) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CENPM
Synonyms:	C22orf18; CENP-M; PANE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201047 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCGGTGTTGAGGCCCCTGGACAAGCTGCCCGGCCTGAACACGGCCACCATCTTGCTGGTGGGCACGG AGGATGCTCTTCTGCAGCAGCTGGCGGACTCGATGCTCAAAGAGGACTGCGCCTCCGAGCTGAAGGTCCA CTTGGCAAAGTCCCTCCCTTTGCCCTCCAGTGTGAATCGGCCCCGAATTGACCTGATCGTGTTTGTGGTT AATCTTCACAGCAAATACAGTCTCCAGAACACAGAGGAGTCCCTGCGCCATGTGGATGCCAGCTTCTTCT TGGGGAAGGTGTGTTTCCTCGCCACAGGTGCTGGGCGGGAGAGCCACTGCAGCATTCACCGGCACACCGT GGTGAAGCTGGCCCACACCTATCAAAGCCCCCTGCTCTACTGTGACCTGGAGGTGGAAGGCTTTAGGGCC ACCATGGCGCAGCGCCTGGTGCGCGTGCTGCAGATCTGTGCTGGCCACGTGCCCGGTGTCTCAGCTCTGA ACCTGCTGTCCCTGCTGAGAAGCTCTGAGGGCCCCTCCCTGGAGGACCTG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC201047 protein sequence Red=Cloning site Green=Tags(s) MSVLRPLDKLPGLNTATILLVGTEDALLQQLADSMLKEDCASELKVHLAKSLPLPSSVNRPRIDLIVFVV NLHSKYSLQNTEESLRHVDASFFLGKVCFLATGAGRESHCSIHRHTVVKLAHTYQSPLLYCDLEVEGFRA TMAQRLVRVLQICAGHVPGVSALNLLSLLRSSEGPSLEDL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6573_d12.zip

View online »

Restriction Sites:	SgfI-MluI
Cloning Scheme:	
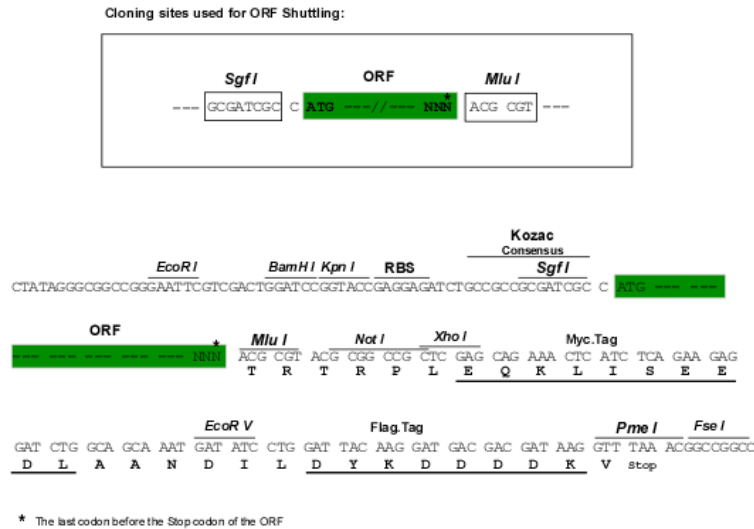
ACCN:	NM_024053
ORF Size:	540 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_024053.5
RefSeq Size:	947 bp
RefSeq ORF:	543 bp

|	
Locus ID:	79019
UniProt ID:	Q9NSP4
Cytogenetics:	22q13.2
Protein Families:	Druggable Genome
MW:	19.7 kDa
Gene Summary:	The protein encoded by this gene is an inner protein of the kinetochore, the multi-protein complex that binds spindle microtubules to regulate chromosome segregation during cell division. It belongs to the constitutive centromere-associated network protein group, whose members interact with outer kinetochore proteins and help to maintain centromere identity at each cell division cycle. The protein is structurally related to GTPases but cannot bind guanosine triphosphate. A point mutation that affects interaction with another constitutive centromere-associated network protein, CENP-I, impairs kinetochore assembly and chromosome alignment, suggesting that it is required for kinetochore formation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2015]

Product images:
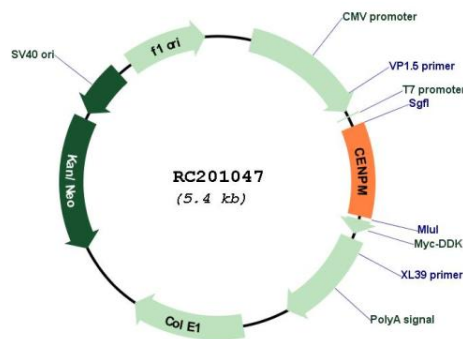
Circular map for RC201047
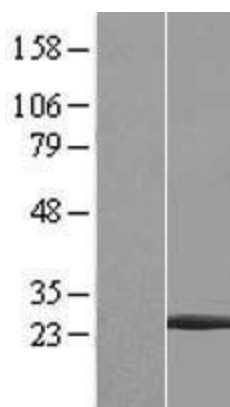
Western blot validation of overexpression lysate (Cat# [LY411372]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201047 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).
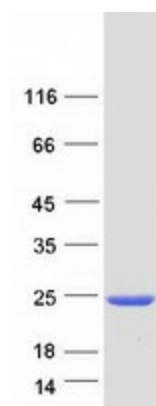
Coomassie blue staining of purified CENPM protein (Cat# [TP301047]). The protein was produced from HEK293T cells transfected with CENPM cDNA clone (Cat# RC201047) using MegaTran 2.0 (Cat# [TT210002]).