

Product datasheet for RG224983

CENPM (NM 001110215) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CENPM (NM_001110215) Human Tagged ORF Clone

Tag: TurboGFP Symbol: CENPM

Synonyms: C22orf18; CENP-M; PANE1

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG224983 representing NM_001110215
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGCCGAGTGTGGGACTTGCCTGGTGTGCTCAAGGTGGAAGGCTTTAGGGCCACCATGGCGCAGCGCC TGGTGCGCGTGCTGCAGATCTGTGCTGGCCACGTGCCCGGTGTCTCAGCTCTGAACCTGCTGTCCCTGCT

GAGAAGCTCTGAGGGCCCCTCCCTGGAGGACCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224983 representing NM_001110215

Red=Cloning site Green=Tags(s)

MGRVWDLPGVLKVEGFRATMAQRLVRVLQICAGHVPGVSALNLLSLLRSSEGPSLEDL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



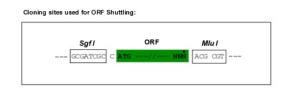
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

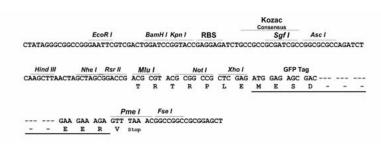
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





ACCN: NM_001110215

ORF Size: 174 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.

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Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 001110215.2</u>, <u>NP 001103685.1</u>

RefSeq Size: 558 bp
RefSeq ORF: 177 bp
Locus ID: 79019
UniProt ID: Q9NSP4
Cytogenetics: 22q13.2

Protein Families: Druggable Genome

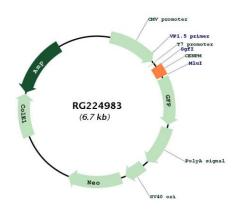
Gene Summary: The protein encoded by this gene is an inner protein of the kinetochore, the multi-protein

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 RG224983