

Product datasheet for **MG211938**

Cenj (NM_001014996) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cenj (NM_001014996) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cenj
Synonyms:	4932437H03Rik; CPAP; Gm81; LAP; LIP1; Sas4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211938 representing NM_001014996 Red=Cloning site Blue=ORF Green=Tags(s)

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AGCGGACCGACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211938 representing NM_001014996
 Red=Cloning site Green=Tags(s)

MFLMPTSSSELNSGQNFLTQWMTSPSRAGVILNRGFPPILEADDKQAATNVSTSFPAKATHFSNSFSISSEE
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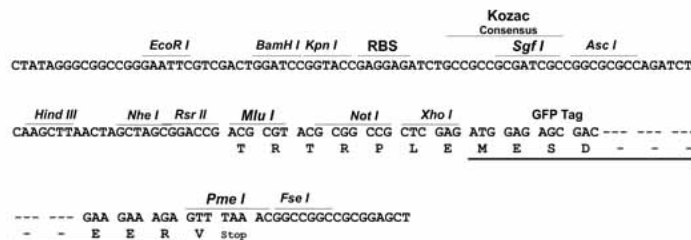
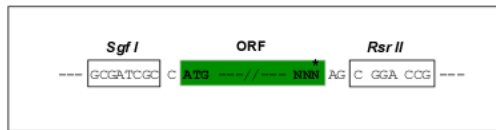
SGPTRRRLE - GFP Tag - V

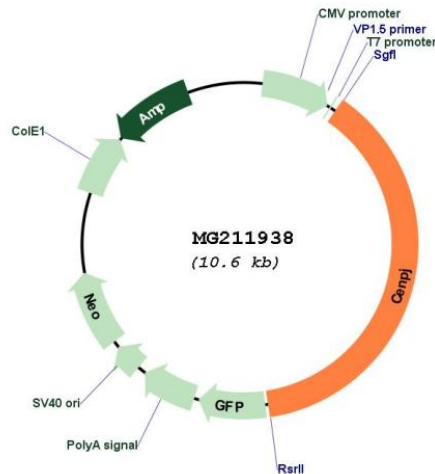
Restriction Sites:

SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001014996

ORF Size: 4032 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_001014996.2](#), [NP_001014996.2](#)

RefSeq Size: 4385 bp

RefSeq ORF: 4035 bp

Locus ID: 219103

UniProt ID: [Q569L8](#)

Cytogenetics: 14 C3

Gene Summary:

Plays an important role in cell division and centrosome function by participating in centriole duplication. Inhibits microtubule nucleation from the centrosome. Involved in the regulation of slow processive growth of centriolar microtubules. Acts as microtubule plus-end tracking protein that stabilizes centriolar microtubules and inhibits microtubule polymerization and extension from the distal ends of centrioles. Required for centriole elongation and for STIL-mediated centriole amplification. Required for the recruitment of CEP295 to the proximal end of new-born centrioles at the centriolar microtubule wall during early S phase in a PLK4-dependent manner. May be involved in the control of centriolar-microtubule growth by acting as a regulator of tubulin release (By similarity).[UniProtKB/Swiss-Prot Function]