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Product datasheet for MG211393

Cep120 (NM_178686) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cep120 (NM_178686) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cep120
Synonyms:	A230075C01; AU016693; Ccdc100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG211393 representing NM_178686
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCCCCAAGTCCGACCAACTGCTCATCGTCGTATCCATCCTCGAAGGTCGCCATTTCCCCAAACGTC
CAAAGCATCTGCTCGTGGTGGAAGCAAAGTTTGATGGGGAGCAGCTGGCTACTGATCCTGTCGACCATAC
TGACCAGCCAGAATTTGCTACTGAGCTAGCCTGGGAGATTGACAGGAAAGTCCTTCATCAGCACCGGTTA
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TCTGATGAGAACGGGTGTCTATAACCATGAGGACCGCATAATAAGTGAACTCGACCGGCAGATCAGAGAG
GTTTTGACCAAAAACAGTGCCAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211393 representing NM_178686
Red=Cloning site Green=Tags(s)

MVPKSDQLLIVVSILEGRHFPKRPKHLLVVEAKFDGEQLATDPVDHTDQPEFATELAWEIDRKVLHQHRL
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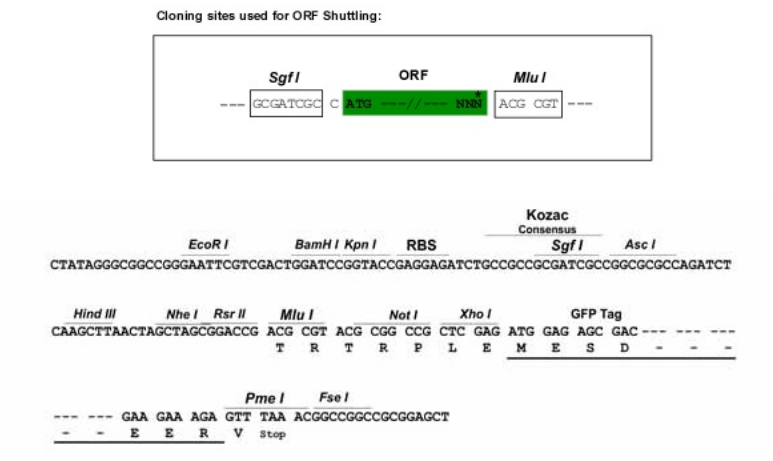
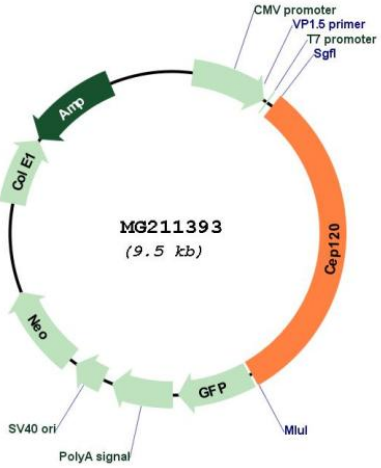
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_178686
ORF Size:	2964 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_178686.4
RefSeq Size:	4572 bp
RefSeq ORF:	2967 bp
Locus ID:	225523
UniProt ID:	Q7TSG1
Cytogenetics:	18 D1

Gene Summary: Plays a role in the microtubule-dependent coupling of the nucleus and the centrosome. Involved in the processes that regulate centrosome-mediated interkinetic nuclear migration (INM) of neural progenitors and for proper positioning of neurons during brain development. Also implicated in the migration and selfrenewal of neural progenitors. Required for centriole duplication and maturation during mitosis and subsequent ciliogenesis. 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 (By similarity). [UniProtKB/Swiss-Prot Function]