

## Product datasheet for **RG226526**

### **C17orf104 (MEIOC) (NM\_001145080) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	C17orf104 (MEIOC) (NM_001145080) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MEIOC
Synonyms:	C17orf104
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG226526 representing NM\_001145080  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

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AGCCAGAGTAAGCTGTAATAATAGA

ACCGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG226526 representing NM\_001145080  
 Red=Cloning site Green=Tags(s)

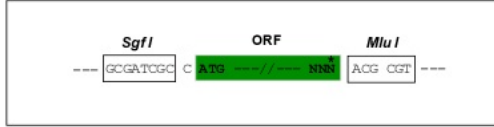
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VPLLLDSYDLLSYDDLSHLYPYFNMMYGDNSFSGLMPTFGFQRPIKTRSGPASELHIRLEECCQWRALEK
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```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul

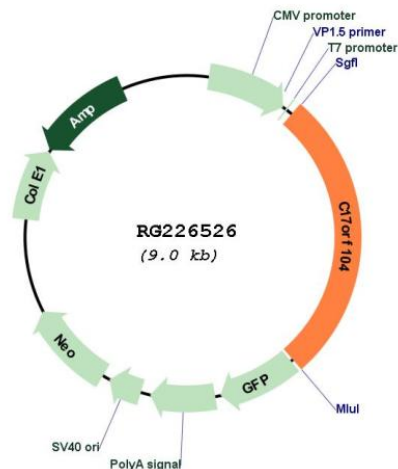
Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI  
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT  
  
 HindIII NheI RsrII MluI NotI XhoI GFP Tag  
 CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---  
 T R T R P L E M E S D - - -  
  
 PmeI FseI  
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT  
 - - E E R V Stop

## Plasmid Map:



ACCN: NM\_001145080

ORF Size: 2475 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\\_001145080.1](#), [NP\\_001138552.1](#)

RefSeq Size: 4162 bp

RefSeq ORF: 2859 bp

Locus ID: 284071

UniProt ID: [A2RUB1](#)

**Cytogenetics:** 17q21.31

**Gene Summary:** Is required for meiosis completion in both male and female germ cells. Confers stability to numerous meiotic mRNAs in gonads allowing proper initiation and progression into meiosis prophase I. The function may involve YTHDC2 and is independent of induction by retinoic acid (RA). Maintains an extended meiotic prophase I by properly promoting the transition from a mitotic to a meiotic cell cycle program by binding transcripts through its interaction with YTHDC2 that regulate the mitotic cell cycle.[UniProtKB/Swiss-Prot Function]