

Product datasheet for **RG236099**

Centrin 3 (CETN3) (NM_001297768) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Centrin 3 (CETN3) (NM_001297768) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Centrin 3
Synonyms: CDC31; CEN3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236099 representing NM_001297768.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGAGTTTAGCTCTGAGAAGTGAGCTTGTAGTGGACAAAACAAAGAGGAAAAAAGAAGAGAACTGTCT
GAGGAACAGAAACAAGAAATTAAGATGCTTTTGAACTATTTGATACAGACAAAGATGAAGCAATAGAT
TATCATGAATTAAGGTGCAATGAGAGCCTTGGGTTTGATGTAAGGCTGATGTACTGAAGATT
CTTAAAGATTATGACAGAGAAGCCACAGGAAAAATCACCTTTGAAGATTTAATGAAGTTGTGACAGAC
TGGATATTGAAAGAGATCCCCATGAAGAAATACTCAAGGCATTTAACTATTTGATGATGATGATTCA
GTTCTTAAGAACATACTCTTGCTTCCTATTTGGTCTAGATGCCTCAGTCTAAATCGGGAGTCTTTCAGT
GAAGTAAACCAAGAGGAGTTCATTGCTATTATGACTGGTGACATT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236099
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MSLALRSELVVDKTKRKRRELSEEQQEIKDAFELFDTDKDEAIDYHELKVAMRALGFDVKKADV LKI
LKDYDREATGKITFEDFNEVVTDWILERDPHEEILKAFKLFDDDDSVLKNILLPIWSRCLSLNREFFS
EVNQEEFIAIMTGDI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_001297768

ORF Size: 459 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).

RefSeq: [NM_001297768.1](#), [NP_001284697.1](#)

RefSeq Size: 1332 bp

RefSeq ORF: 462 bp

Locus ID: 1070

UniProt ID: [Q15182](#)

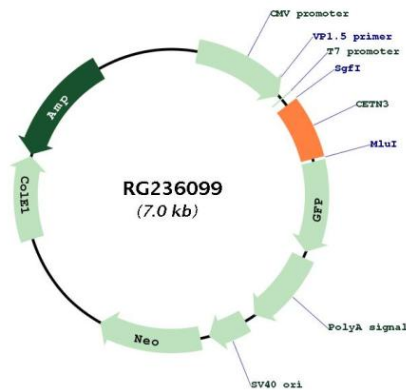
Cytogenetics: 5q14.3

Protein Families: Druggable Genome

MW: 18.5 kDa

Gene Summary:

The protein encoded by this gene contains four EF-hand calcium binding domains, and is a member of the centrin protein family. Centrins are evolutionarily conserved proteins similar to the CDC31 protein of *S. cerevisiae*. Yeast CDC31 is located at the centrosome of interphase and mitotic cells, where it plays a fundamental role in centrosome duplication and separation. Multiple forms of the proteins similar to the yeast centrin have been identified in human and other mammalian cells, some of which have been shown to be associated with centrosome fractions. This protein appears to be one of the most abundant centrins associated with centrosome, which suggests a similar function to its yeast counterpart. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]

Product images:


Circular map for RG236099