

## Product datasheet for **RG215771**

### Septin 3 (SEPT3) (NM\_145733) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Septin 3 (SEPT3) (NM_145733) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Septin 3
Synonyms:	bK250D10.3; SEP3; SEPT3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215771 representing NM_145733 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCAAAGGGCTCCCAGAGACCAGGACGGACGCAGCCATGTCAGAGCTGGTGCCTGAGCCAGGCCTA  
AGCCAGCGGTGCCATGAAGCCCATGAGCATCACTCCAACCTGCTGGGTACATCGGCATCGACACCAT  
CATCGAGCAGATGCGCAAGAAGACCATGAAGACCGTTTTCGACTTCAACATCATGGTCGTTGCCAGAGT  
GGACTGGGCAAAACAACGCTGGTCAACACGCTCTTCAAATCCAAGTGAAGCCGCAAGGCCCTCCAGCTGGA  
ACCGGGAGGAGAAGATCCCCAAGACAGTGGAGATCAAAGCTATCGGGCATGTGATAGAGGAAGCGGTGT  
CAAAATGAAGCTGACCGTCATCGACACCCAGGCTTTGGAGACCAATCAACAATGAAAACCTGCTGGGAG  
CCCATTGAGAAGTACATCAATGAGCAGTACGAGAAGTTCCCTGAAGGAGGAGTCAACATCGCCAGGAAGA  
AACGCATCCCTGACACTCGTGTCCACTGCTGCCTTTACTTCATCTCTCCACAGGACACTCCTTGCGACC  
TCTGGATCTTGAGTTCATGAAACACCTCAGCAAGGTTGTGAACATCATCCCTGTCATTGCTAAGGCTGAC  
ACCATGACCTGGAGGAGAAGTCTGAATTCAAGCAAAGGTTTCGCAAGGAGCTTGAAGTAAATGGCATTG  
AATTCTACCCCAAGAAGGAATTTGATGAGGATTTGGAGGATAAGACGGAGAATGACAAAAATCAGGCAGGA  
GAGCATGCCTTTTGTGTGGTGGGAAGTGACAAGGAGTACCAAGTGAATGGCAAGAGGGTCTCGGCCGA  
AAAACCTCATGGGGATCATCGAAGTGGAAAACCTCAACACTGTGAGTTTGCCTGCTTCGAGACTTTG  
TCATCAGGACCCACCTCCAGGACCTCAAGGAAGTGACACACAACATCCACTATGAGACTTACAGGGCCAA  
GCGGCTCAATGACAATGGAGGCCTCCCTCCGGGAGAAGGCCTCCTGGGCACTGTCTTCCACCTGTGCCA  
GCCACCCCTGCCCACTGCTGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG215771 representing NM\_145733  
Red=Cloning site Green=Tags(s)

```
MSKGLPETRTDAAMSELVPEPRPKPAVPMKPMINSNLLGYIGIDTIEEQMRKKTMTGDFNIMVVGQS
GLGKSTLVNTLFKSQVSRKASSWNREEKIPKTVEIKAIGHVIEEGVKMKLTVIDTPGFGDQINNENCWE
PIEKYINEQYEFKFLKEEVNIARKKRIPDTRVHCLYFISPTGHSLRPLDLEFMKHL SKV VNIIPVIAKAD
TMTLEEKSEFKQVRKELEVNGIEFYQKEFDEDELDK TENDKIRQESMPFAVVGSDKEYQVNGKRVLGR
KTPWGIIEVENLNHCEFALLRDFVIRTHLQDLKEVTHNIHYETYRAKRLNDNGGLPPGEGLLGTVLPPVP
ATPCPTAE
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145733

**ORF Size:** 1074 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\\_145733.3](#)

**RefSeq Size:** 2469 bp

**RefSeq ORF:** 1077 bp

**Locus ID:** 55964

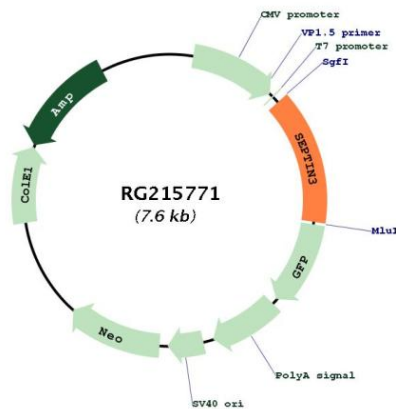
**UniProt ID:** [Q9UH03](#)

**Cytogenetics:** 22q13.2

**Domains:** GTP\_CDC

**Gene Summary:** This gene belongs to the septin family of GTPases. Members of this family are required for cytokinesis. Expression is upregulated by retinoic acid in a human teratocarcinoma cell line. The specific function of this gene has not been determined. Alternative splicing of this gene results in several transcript variants encoding different isoforms. [provided by RefSeq, May 2018]

### Product images:



Circular map for RG215771