

## Product datasheet for **RG218686**

### SEPTIN6 (NM\_145800) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN6 (NM_145800) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEPTIN6
Synonyms:	SEP2; SEPT2; SEPT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218686 representing NM_145800 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGCGACCGATATAGCTCGCCAGGTGGGTGAAGGTTGCCGAAGTGTCCCCCTGGCTGGACATGTGG  
GGTTTGACAGCTTGCTGACCAGCTGGTGAATAAGTCCGTCAGCCAGGGCTTCTGCTTCAACATCTGTG  
CGTGGGAGAGACAGGTTTGGGCAAGTCCACCCTCATGGACACCCTGTTCAACACCAAATTCGAAGGGGAG  
CCAGCCACCCACACAGCCGGGTGTCCAGCTCCAGTCTAATACCTATGACCTCCAAGAGAGCAACGTGA  
GGCTAAAGCTCAGATCGTTAGCACAGTTGGCTTTGGGGACCAGATCAACAAAGAGGACAGCTACAAGCC  
TATCGTGGAAATTCATCGATGCACAATTCGAGGCCCTACCTGCAGGAAGAGCTAAAGATCCGAAGAGTGCTA  
CACACCTACCATGACTCCCGAATCCATGTCTGCTTGTATTTTCATTGCCCCACGGGTCATTCCCTGAAGT  
CTCTGGACCTAGTGACTATGAAGAAGCTGGACAGTAAGGTGAACATCATCCCCATCATTGCCAAAGCAGA  
TGCCATTTCGAAGAGTGAGCTAACAAAGTTCAAAATCAAATCACCAGCGAGCTTGTCAGCAACGGAGTC  
CAGATCTATCAGTTTCTACAGATGATGAGTCCGTGGCAGAGATCAATGGAACCATGAACGCCCACTGC  
CGTTTGTGTCTATTGGCAGCACAGAAGAACTGAAGATAGGCAACAAGATGATGAGGGCGCGCAGTATCC  
TTGGGGCACTGTGCAGGTTGAAAACGAGGCCCACTGCGACTTTGTGAAGCTGCGGGAGATGCTGATTCCG  
GTCAACATGGAGGATCTGCGGGAGCAGACCCACACCCGGCACTATGAGCTGTATCGCCGCTGAAGCTGG  
AGGAGATGGGCTTCAAGGACACCGACCCTGACAGCAAACCTTCAGTTTACAGGAGACATATGAGGCCAA  
AAGGAACGAGTTCCTAGGGAACTCCAGAAAAAAGAGGAGATGAGACAGATGTTTCGTCAGCGAGTC  
AAAGAGAAAGAAGCGGAGCTCAAAGAGGACAGAAAGAGCTGCACGAGAAGTTTGACCGTCTGAAGAAAC  
TGCACCAGGACGAGAAGAAGAACTGGAGGATAAGAAGAAATCCCTGGATGATGAAGTGAATGCTTTCAA  
GCAAAGAAAGACGGCGGCTGAGCTGCTCCAGTCCCAGGGCTCCCAGGCTGGAGGCTCACAGACTCTGAAG  
AGAGACAAAGAGAAGAAAAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG218686 representing NM\_145800  
Red=Cloning site Green=Tags(s)

MAATDIARQVGEGRCTVPLAGHVGFDSLDPQLVNKSVSQGFCFNILCVGETGLGKSTLMDTLFNTKFEGE  
 PATHTQPGVQLQSNTYDLQESNRLKLTIVSTVGFQDQINKEDSYKPIVEFIDAQFEAYLQEELKIRRVL  
 HTYHDSRIHVCLYFIAPTGHSLKSLDLVTMKKLDSKVNIPIIIAKADAIKSELTKFKIKITSELVSNVQ  
 QIYQFPTDDESVAEINGTMNAHLPFVAVIGSTEELKIGNKMMRARQYPWGTVQVENEAHCDFVKLREMLIR  
 VNMEDLREQTHRHYELYRRCKLEEMGFKDTDPDSKPFSLQETYEAKRNEFLGELQKKEEEMRQMFVQRV  
 KEKEAELKEAEKELHEKFDRLKHLHQDEKKKLEDKKSLDDEVNAFKQRKTAELLQSQSQAGGSQTLK  
 RDKEKKN

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145800

**ORF Size:** 1281 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\\_145800.4](#)

**RefSeq Size:** 2620 bp

**RefSeq ORF:** 1284 bp

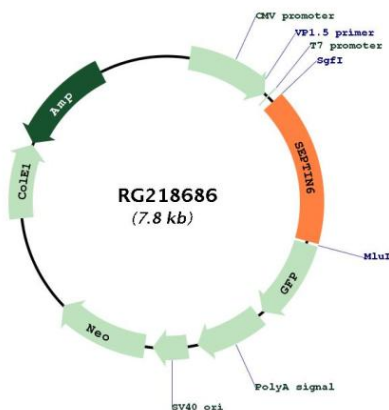
**Locus ID:** 23157

**UniProt ID:** [Q14141](#)

**Cytogenetics:** Xq24

**Gene Summary:** This gene is a member of the septin family of GTPases. Members of this family are required for cytokinesis. One version of pediatric acute myeloid leukemia is the result of a reciprocal translocation between chromosomes 11 and X, with the breakpoint associated with the genes encoding the mixed-lineage leukemia and septin 2 proteins. This gene encodes four transcript variants encoding three distinct isoforms. An additional transcript variant has been identified, but its biological validity has not been determined. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG218686