

Product datasheet for **RG209634**

SEPTIN6 (NM_145799) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN6 (NM_145799) 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:	>RG209634 representing NM_145799 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCGACCGATATAGCTCGCCAGGTGGGTGAAGGTTGCCGAAGTGTCCCCCTGGCTGGACATGTGG
GGTTTGACAGCTTGCTGACCAGCTGGTGAATAAGTCCGTCAGCCAGGGCTTCTGCTTCAACATCTGTG
CGTGGGAGAGACAGGTTTGGGCAAGTCCACCCTCATGGACACCCTGTTCAACACCAAATTCGAAGGGGAG
CCAGCCACCCACACAGCCGGGTGTCCAGCTCCAGTCTAATACCTATGACCTCCAAGAGAGCAACGTGA
GGCTAAAGCTCAGATCGTTAGCACAGTTGGCTTTGGGGACCAGATCAACAAAGAGGACAGCTACAAGCC
TATCGTGGAAATTCATCGATGCACAATTCGAGGCCCTACCTGCAGGAAGAGCTAAAGATCCGAAGAGTGCTA
CACACCTACCATGACTCCCGAATCCATGTCTGCTTGTATTTTCATTGCCCCACGGGTCAATCCCTGAAGT
CTCTGGACCTAGTGACTATGAAGAAGCTGGACAGTAAGGTGAACATCATCCCCATCATTGCCAAAGCAGA
TGCCATTTCGAAGAGTGAGCTAACAAAGTTCAAATCAAATCACCAGCGAGCTTGTGAGCAACGGAGTC
CAGATCTATCAGTTTCTACAGATGATGAGTCCGTTGGCAGAGATCAATGGAACCATGAACGCCCACTGC
CGTTTGTGTCTATTGGCAGCACAGAAGAACTGAAGATAGGCAACAAGATGATGAGGGCGCGGCAGTATCC
TTGGGGCACTGTGCAGGTTGAAAACGAGGCCCACTGCGACTTTGTGAAGCTGCGGGAGATGCTGATTCCG
GTCAACATGGAGGATCTGCGGGAGCAGACCCACACCCGGCACTATGAGCTGTATCGCCGCTGAAGCTGG
AGGAGATGGGCTTCAAGGACACCGACCCTGACAGCAAACCTTCAGTTTACAGGAGACACATGAGGCCAA
AAGGAACGAGTTCTAGGGAACTCCAGAAAAAAGAGGAGATGAGACAGATGTTCTGTCAGCGAGTC
AAAGAGAAAGAAGCGGAGCTCAAAGAGGACAGAAAGAGCTGCACGAGAAGTTTGACCGTCTGAAGAAAC
TGCACCAGGACGAGAAGAAGAACTGGAGGATAAGAAGAAATCCCTGGATGATGAAGTGAATGCTTTCAA
GCAAAGAAAGACGGCGGCTGAGCTGCTCCAGTCCAGGGCTCCAGGCTCCAGGCTCAGAGACTCTGAAG
AGAGACAAAGAGAAGAAAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG209634 representing NM_145799
Red=Cloning site Green=Tags(s)

MAATDIARQVGEGRCTVPLAGHVGFDSLDPQLVNKSVSQGFCFNILCVGETGLGKSTLMDTLFNTKFEGE
 PATHTQPGVQLQSNTYDLQESNVRLLKLTIVSTVGFQDQINKEDSYKPIVEFIDAQFEAYLQEELKIRRVL
 HTYHDSRIHVCLYFIAPTGHSLKSLDLVTMKKLDSKVNIPIIIAKADAIKSELTKFKIKITSELVSNQV
 QIYQFPTDDESVAEINGTMNAHLPFVAVIGSTEELKIGNKMMRARQYPWGTVQVENEAHCDFVKLREMLIR
 VNMEDLREQTHRHYELYRRCKLEEMGFKDTDPDSKPFSLQETHEAKRNEFLGELQKKEEMRQMFVQRV
 KEKEAELKEAEKELHEKFDRLKLLHQDEKKKLEDKKSLDDEVNAFKQRKTAELLQSQSQAGGSQTLK
 RDKEKKN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145799

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_145799.2](#), [NP_665798.1](#)

RefSeq Size: 4716 bp

RefSeq ORF: 1284 bp

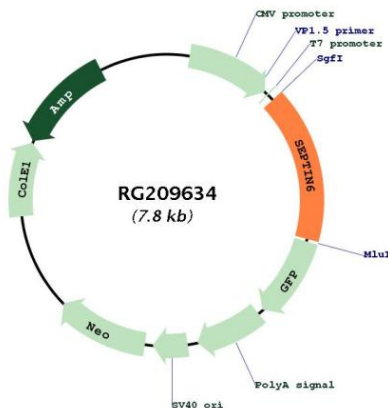
Locus ID: 23157

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 RG209634