

## Product datasheet for **SC110300**

### SEPTIN6 (NM\_145802) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEPTIN6 (NM_145802) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEPTIN6
Synonyms:	SEP2; SEPT2; SEPT6
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_145802, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGCGACCGATATAGCTCGCCAGGTGGGTGAAGGTTGCCGAAGTGTCCCCCTGGCTGGACATGTGG
GGTTTGACAGCTTGCCCTGACCAGCTGGTGAATAAGTCCGTGACCCAGGGCTTCTGCTTCAACATCTGTG
CGTGGGAGAGACAGGTTTGGGCAAGTCCACCCTCATGGACACCCTGTTCAACACCAAATTCGAAGGGGAG
CCAGCCACCCACACAGCCGGGTGTCCAGCTCCAGTCTAATACCTATGACCTCCAAGAGAGCAACGTGA
GGCTAAAGCTCAGATCGTTAGCACAGTTGGCTTTGGGGACCAGATCAACAAAGAGGACAGCTACAAGCC
TATCGTGGAAATTCATCGATGCACAATTCGAGGCCCTACCTGCAGGAAGAGCTAAAGATCCGAAGAGTGCTA
CACACCTACCATGACTCCCGAATCCATGTCTGCTTGTATTTTCATTGCCCCACGGGTCATTCCTGAAGT
CTCTGGACCTAGTGACTATGAAGAAGCTGGACAGTAAGGTGAACATCATCCCCATCATTGCCAAAGCAGA
TGCCATTTTCAAGAGTGAGCTAACAAAGTTCAAAATCAAATCACCAGCGAGCTTGTGAGCAACGGAGTC
CAGATCTATCAGTTTCTACAGATGATGAGTCGGTGGCAGAGATCAATGGAACCATGAACGCCACCTGC
CGTTTGTGTCTATTGGCAGCACAGAAGAACTGAAGATAGGCAACAAGATGATGAGGGCGCGGCAGTATCC
TTGGGGCACTGTGCAGGTTGAAAACGAGGCCCACTGCGACTTTGTGAAGCTGCGGGAGATGCTGATTCGG
GTCAACATGGAGGATCTGCGGGAGCAGACCCACCCGGCACTATGAGCTGTATCGCCGCTGTAAGCTGG
AGGAGATGGGCTTCAAGGACACCGACCCTGACAGCAAACCTTCAGTTTACAGGAGACATATGAGGCCAA
AAGGAACGAGTTCCTAGGGAACTCCAGAAAAAAGAGGAGATGAGACAGATGTTTCGTCCAGCGAGTC
AAAGAGAAAGAAGCGGAGCTCAAAGAGGCGAGAAAGAGCTGCACGAGAAGTTTGACCGTCTGAAGAAAC
TGCACCAGGACGAGAAGAAGAACTGGAGGATAAGAAGAAATCCCTGGATGATGAAGTGAATGCTTTCAA
GCAAAGAAAGACGGCGGTGAGCTGCTCCAGTCCCAGGGCTCCCAGGCTGGAGGCTCACAGACTCTGAAG
AGAGACAAAGAGAAGAAAACTTTTTTAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_145802 unedited CGTCAGGATTTGTAATACGACTCACTATAGGGGCGGGCCGCGCAATTCGCGACCAGCGGC ACCCGTGGCAGCCCTNNCGGACGCAGGGGGCGATGGCGGCGACCCATATAGCTCGCCAGG TGGGTGAAGGTTGCCGAAGTGTCCCCCTGGCTGGACATGTGGGGTTTGACAGCTTGCTG ACCAGCTGGTGAATAAGTCCGTCCAGCCAGGGCTTCTGCTTCAACATCCTGTGCGTGGGAG AGACAGGTGTGGCAAGTCCACCCTCATGGACACCCTGTTCAACACCAAATTCGAAGGGG AGCCAGCCACCCACACACAGGCGGGTGTCCAGTCCAGTCTAATACCTATGACCTCCAAG AGAGCAACGTGAGGCTAAAGCTCACGATCGTTAGCACAGGTGGCTTTGGGGACCAGATCA ACAAAGAGGACAGCTACAAGCCTATCGTGAATTCATCGATGCACAATTCGAGGCCTACC TGCGGGAAGAGCTAAAGATCCGAAGAGTGTACACACCTACCATGACTCCCGAATCCTGT CTGCTTGTGTTTCATTGCCCCACGGGTCATTCCCTGAAGTCTCTGGACCTAGTGACTAT GAAGAAGCTGGACAGTAAGGGTGAACATCATCCCATCATTGCCAAAGCAGATGCGATTT CGAAGAGTGAGCCTANCAAGTTCAAAATCAAATCACCAGCGAGCGTGTGCAGCACGGAG TCCAGATCTATCAGTTCTACANATGATGAGTCGGTGGCANAGATCAATGGAACATGGA CGCCACCTGGCGTTTGTGTCTATTGGCGCCCNAAAGAACTGAGAATGGGCACAGATGATG AGGGCGCGGCATATCCTTGGGGCTGGGCAGGTGAAAACAAGCCACTGCGACTTNTTGAG CTGCGGGGAAGCTGATTCGGGGCA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_145802
<b>Insert Size:</b>	2250 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_145802.2</a> , <a href="#">NP_665801.1</a>
<b>RefSeq Size:</b>	2575 bp
<b>RefSeq ORF:</b>	1290 bp
<b>Locus ID:</b>	23157
<b>UniProt ID:</b>	<a href="#">Q14141</a>
<b>Cytogenetics:</b>	Xq24
<b>Domains:</b>	GTP_CDC

**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] Transcript Variant: This variant (V) contains an alternate 3' exon, as compared to variant II. It encodes isoform D, that is shorter and has a distinct C-terminus, as compared to isoform B. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.