

## Product datasheet for **SC127546**

### **CAMSAP1 (AL117634) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CAMSAP1 (AL117634) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAMSAP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AL117634, the custom clone sequence may differ by one or more nucleotides

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ACGCGTCCGCAGCTTGGCCCGCTCCATCAGCAAAGACAGTTTGGCATCCAACATTGTTAATCTGACCCCA  
CAGAACCAGCCACACCCACGGCCACGAAGAGCCACGGGAAGAGCCTCCTGAGCAATGTCAGTATTGAGG  
ATGAGGAAGAGGAGCTTGTGGCTATTGTTAGAGCAGACGTGGTTCCCCAGCAGGCTGACCCGGAGTTCCC  
CAGGGCCTCACCCCGGCCTTAGGCCTTACAGCAAATGCCGGTCTCCCCAAGGACAGCTGGACACCTCG  
GAAAGTAAGCCTGACAGTTTTTCTTGGAGCCTTGTATGCCAGCAGTTCTTAAGCCAGCGAAAGAGAAGC  
AGGTGATCACCAAGGAGGATGAACGGGGGAAGGAGACCGAGGAGCATCGTGTCTAGGAGGCCAGCGA  
GGCCCCCAGCCTTTGGTACGAAGGAAAATGACTGGCAGTCGCGACTTGAATAGGACTTTTACCCCGATT  
CCATGCTCAGAATTCCCCATGGGCATCGACCCACCGAGACAGGACCACTGTGAGTGGAAACCCGAGGAG  
AGGTCTGTGGTGGCCTCTGGCCTTGGCGATTTCGATCCGTTCCCCCAGGACCATCCACGGATGGCTTC  
TTCTTTCATGTAGGCAGGCGGATGAAGACACCGAGGGAAGTTATATGTTAGTTGTTCAAAAAGCCCCA  
ACTCCCACGATTCAGAGCCGTGGACTCTCCTCAGGCAGGATTCTGACTCGGATGTGGTGGACATAGAGGA  
AGCCGAGCAGATTTTCATGGGTGAGGCCATCCTGTGGTTTTTCAGCAGATACATTGGGGAGGAAGAGTCG  
GCCAACTGCAGGAGGACATGAAGGTGAAGGAACATGAAGACAAAGATGACGCCAGC
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for AL117634 unedited TCACTATAGGCGGCCGGAATTCGCACGAGGAGAAGCAGGTGATCACCAAGGAGGATGAA CGGGGGGAAGGGAGACCGAGGAGCATCGTGTCTAGGAGGCCAGCGAGGGCCCCAGCCT TTGGTACGAAGGAAAAATGACTGGCAGTCGCGACTTGAATAGGACTTTTACCCCGATTCCA TGCTCAGAATTCATGGGCATCGACCCACCGAGACAGGACCACTGTCAGTGGAAACC GCAGGAGAGGTCTGTGGTGGCCCTCTGGCCCTTGGCGGATTCGATCCGTTCCCCAGGGA CCATCCACGGATGGCTTCTTCCATGTAGGCAGGGCCGATGAAGACACCGAGGGAAGG TTANTATGTTAGTTGTTCAAAAAGCCCAACTCCACGATTCAGAGCCGTGGACTCTCCT CAGGCAGGATTCTGACTCGGATGTGGTGGACATAGAGGAAGCCGAGCACGATTTTCATGGG TGAGGCCCATNNTGTGGTTTTTCAGCAGATACATTGGGGAAGGAAAGAGTCGGCCAAACT GCAGGAGGACATGAAGGGTGAAGGAACATGAAGACAAAGATGACGCCAGCGGCCGCTCGA GCCCTGCCTGAGCACAGCCTCTCAATGGAGCAGTGTCTCATGGGCGAGTGGGGAGCGTG GAAAATGACCAGCTTTCGGGAGAGGAAAGCTCAGAGACTCANCAGCTGTGAGACCAAGT NCAGCACAGCAGTNCCANAAGACACGCAAGTGGCGTCTGAAAGCTGNCCACCCTTGACC AACCTGGAGCCAAAAGGGGACCAAATCCGAGCACATGCAAGGAATCCGGCAGCCTCTGC ATTTTAGACTGATACGCTGCCTGCGCTGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AL117634
<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="#">AL117634.1</a> , <a href="#">CAB56024.2</a>
<b>RefSeq Size:</b>	897 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	157922
<b>Cytogenetics:</b>	9q34.3

**Gene Summary:**

Key microtubule-organizing protein that specifically binds the minus-end of non-centrosomal microtubules and regulates their dynamics and organization (PubMed:19508979, PubMed:21834987, PubMed:24486153, PubMed:24706919, PubMed:24117850). Specifically recognizes growing microtubule minus-ends and stabilizes microtubules (PubMed:24486153, PubMed:24706919). Acts on free microtubule minus-ends that are not capped by microtubule-nucleating proteins or other factors and protects microtubule minus-ends from depolymerization (PubMed:24486153, PubMed:24706919). In contrast to CAMSAP2 and CAMSAP3, tracks along the growing tips of minus-end microtubules without significantly affecting the polymerization rate: binds at the very tip of the microtubules minus-end and acts as a minus-end tracking protein (-TIP) that dissociates from microtubules after allowing tubulin incorporation (PubMed:24486153, PubMed:24706919). Through interaction with spectrin may regulate neurite outgrowth (PubMed:24117850).[UniProtKB/Swiss-Prot Function]