

## Product datasheet for MC224719

### Camsap1 (NM\_001115076) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Camsap1 (NM\_001115076) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Camsap1  
**Synonyms:** 9530003A05Rik; C77823; PRO2405  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224719 representing NM\_001115076  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGTGGACGCGGGCGGTTCGCTGTGCCCGCAAGGCTGGAGGAGGATGGAGGCGCCCCGGAGGGCGCCG  
ACCTGGTGGCGCTGGACCGCTACGACCGCGCGGGCCAAAGATCGCCGCCAACCTGCAGTGGATCTGTGC  
GAAGGCCTATGGCCTAGACAACATCCCTGAGGACCTCCGAGACCGGTTTTACATCGACCAGTATGAGCAG  
GAGCACATTAAGCCACCGTTATCAAGCTTCTCCTGTCCAGTGAGCTGTATTGCCGTGTCTGCAGCCTCA  
TCCTAAAAGGGGACCAGGTGGCTACCTTGAAGGACACCAGTCTGTCTATCCAGGCCCTGTCCCGAAGGG  
CATCTATGTGATGGAGAGTGATGATACCCTGTGACAGATGCTGACCTCAGCCAGGCACCTATTAAGATG  
AGTGGCCACATGGCGATGGTGGATGCCCTGATGATGGCTTACACTGTGGAGATGATCAGCATTGAGAAGG  
TGGTGGCCAGTGTCAAGCGCTTTTCTACATTGAGCGCCTCAAAGAAGTTCCTTATGACCTCGAGGATGC  
CATGGTATTCTGGATCAATAAGGTAATCTTAAAATGAGAGAGATAACAGAGAAAGAAGTAAATAAAA  
CAGCAGCCACTGAAAAGTCCCGCTCATCAAAGGTCGGTATCGCGGAGAGCACCTCTCTGCTAGGCAGT  
CACCTACTTCCGTTGTTGGAGGACTGATGAGAGACGGCAGTGTGGCGCTGCTCTTAGCAGTGGT  
TCACTATTATTGCCAGAGCAGATGAAACTGGATGATATCTGTCTGAAGGAGGTGCCATCAATGGCTGAC  
AGCCTCTATAACATCCGCCTTCTGAGGGAGTTTTCCAACGAGCATCTGAACAAGTGTCTATCTCACGC  
TGGAGGATATGCTGTATGCCCCCTAGTGTGAAGCCGAACGTTATGGTTTTTATCGCTGAGCTCTTCTG  
GTGGTTTGAACGTCAAACCAGATTTTGTTCAGCCCCGAGATTTCAAGAGCTGAAGGATGCTAAAACA  
GTGTTACAGCAGAAGAGCAGCCGGCCTCCTGTCCCTATCTCCAATGCAACCAAACGCAGCTTCTGGGTA  
GCCCTGCTGCCATGAGCCCCGTGACCAGCCACCATCCACCCAGCCTCTTGTGAAGGCAGTCATCGGTA  
CCACCTCCACTCGAAGAACCTGAGTGTCTTGGGAAAGGAGCTTCCACATTTAGTCCGTCATCCTTTG  
TTGCCACTGAGACAGAAACAGCAAAAAGTGTACAGACAGAGGAAATCCCTGATCAGCGCACAGGTCGA  
ATTCTTTAACTCGGTTGATGGTCAGCCACGAGGTGCAATAGGAGCATGGCCAGATAAAAAAACAGGCC  
TGTGTCACAGCCAAACATATTTGCTCTCCATCATGCTGCAAGTTGTGATGTGGATCCCAGTCTGGTGAC  
AGTGTGAGCTTAGCTCGCTCTATCAGCAAAGATAGCTTGGCATCTAACATTATCCACCTGACCCACAGA



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ACCAGCCCCATCCCTCCGCTGGAAAGAGCAATGGGAAAAGCCTCCTGAGCAATGTCAACATTGAGGATGA  
 GGACGAGGAGCTTGTAGCCATCATCAGGACAGATGTGTCTCCTCCTTCCCCACAGATGCCAGGACCTCA  
 CCTCAGGCCCCAGGCCTGGTAGCAAGTATCAGGTCTCCCAGAGACAGGCAGACACTTTGGAGAGTAAGC  
 CTGACAGTTTTTACTTAGAACCCCTGATGCCAGCAGTACTCCGGCCAGCCAAAGAGAAGCAGATTACCAC  
 TAAGGAAGATGAGCGTGGAGAAGGAAGGCCAAGGACCATCATGGCCAAGAGGCCTAGTGAGGGCTCCCAG  
 CCTATGGTACGAAAGAAAGTAAGTGGTGGCCATGGCAGTCGTGACCTGAACAGAACTTTCACCCCAATTC  
 CTTGTTTCAAGAATTTGCTGCGAGCATTGATCTTGGCGAGGTAGGACCACAGTCAGCAGAAGCTACAGGGGA  
 AGGACAGCCTCTGGCCCTGGGTAGATTTGATACATTACCTCAGGGGCAGGCTGCTGATGGTTCTTTCTC  
 CATGTAGGCAGGGCTGAGGAAGATGAGGGGAGGTGGTACGTTGGTTCACAAAAGTCTAGCTCCCACGACT  
 CAGAACCCTGGACCATTTTGAGGCAAGACTCGGACTCTGATGTAGTAGACGTAGAGGATACAGAGCAGGA  
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 GAGGATATGAAAGTGAAGGAACATGAAGACAAGGATGATGCCAGCGGCCGCTCAAGCCCGTGTCTGAGCA  
 CCATTCTCAGCTCAGCAGCATGTCATGGCCAGTGGAAAGTGTAAAGATGACCAGCTTTGCTGAAAGGAA  
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 AGGACCCTGCCAGCCTGTGGCTTCTGAGCTGGTGACAGTGCACATGCAGCTGGAGGAAAAGCGCAGAGC  
 TATTGAAGCCCAGAAGAAAAGATGGAGGCGCTGTCCGCACGGCAGCGTCTGAAGCTGGGCAAGGCAGCC  
 TTTCTGCATGTGGTAAAGAAAAGGAAGGCTGATGGTGCCACAGCCACTGAGACCCGAACACTTCACAA  
 AGGAATTCACACAGCACAATGGGGAGGACTTGGATGATGGCACTTGTAAAAGTGAAGGGTTCCTTGTCAA  
 AGAAGAGCAGAGAGATCTCAGTGACGCTCAGGATGTGGCATTGTCCAGCTACATAAGCCAGGGACCCA  
 GCTGCTCTGCATGATGGAGAGAAGCACAGAATGATTTCTACGGCCCTCCTCGAGGATAGTGTGGTGAGG  
 TAGATGTGAACGAGTGTGACCTGTCCATTGAGAAGCTCAATGAGACCATCAGTACATTGCAGCAGGCTAT  
 ACTGAAGATCTCCAGCAGCAAGAGCAGCTTCTCATGAAGTCCCCACAGTCCCAACCCGGGCACTAAA  
 AATAACTGCCAGGACCAAAAAATAAAGGCCCCAGTCCACTTTGTTGAGCCACTCTCCAACCTGGCGTGC  
 CTGGCCACCGCAAACCACCACGGCTTGGCCAGGGCCGAATTCCCCTCAGGAAGGCCGGTGAAGTGA  
 GGTTCAAAAGACAGGCAGCAGGGTTGTTCTCGGAGCAAAAACCCCAACCCAGTGTGGAGACACTCCCA  
 CAGTCAAGGTCTTACCTCCAAGTACCCATCCACGGTACCCTCCGACCCAGGCGGGGAAGTCCCTGAGA  
 AGTGTCTCTTCGACAGTTATAGGCTCCATGATGAGAGTAACCATCGGACATTTGTTCTGTCTCTTGCAA  
 AGATGCAAACATTGTATCAGAACAGGTGAACCTTAAAGAGGGTCTAGATACAAGTGTGAAAGAGGCAGGG  
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 TCATTGAGGTAGACCTCTCTGACCTGAAGGCCCTGATGAGGATGGAGAGGTGGTTGGCCATGAGAGCTC  
 GGTGGAGCTTGGTGGAGATAGTGACCAGAAGCCTGGGGTTGGTTTCTTCTTCAAGGATGAACAGAAAGCA  
 GAAGATGAGCTTGCTAAGAAGCGGGCAGCCTTCTTTTGAACAGCAGCGCAAGGCTGAAGAGGCTCGTG  
 CGCGCAAGCAGCAGCTGGAGGCAGAAGTGGAGCTCAAGCGAGATGAAGCCCGGCGTAAGGCTGAAGAGGA  
 TCGACTACGGAAGGAGGAGGAGAAGGCAAGGCGGAGAGCTCATTAAACAGGAATACTTACGGAGGAAGCAG  
 CAGCAGGCCTTGGAGGAGCAAGGACTTGGCAAACCTAAATCAAAGCCTAAAAAGCCTCGGCCAAAGTCAG  
 TTCACCGGAAGAGTCTTACAGCGACTCTGGCACCAGTGTCTTCTACCCATAACTTGACCAAACCTCA  
 CTCTGGCTCCAGCCTATCCTTGGCATCTGCAGCAACAACAAGAACCTGAGAGTGTATTTCGGGGGGCACA  
 CCTTCTACCCGAGTTGAATCACTGGAAGCTTTACCTATCCTGAGCCGCAACCCAGTCGGAGCACAGACC  
 GAGACTGGGAGACTGCATCAGCAGCTTCCCTTTGGCCTCTGTGGCTGAGTACACAGGTCCTAAACTCTT  
 TAAGGAGCCAGTAGCAATCAAACAACCAATTATTCACAATGCCATCTCCCACTGCTGTCTGGCTGGA  
 AAAGTGAATGAGCCTCACAAGAATTCAATATTGGAGCTGGAGAAGTGTGATGCCAACCTATATTTATTC  
 TGTTCCGAGATGCGGGCTGCCAGTTCAGGGCACTTTACTGCTACCAACCCGACACTGAAGAAATCTACAA  
 ACTCACTGGCACGGGGCCAAAAGCATCAACAAGAAGATGATTGACAACTATATAAATACAGCTCAGAC  
 CGAAAGCAGTTTAACTGATCCCAGCCAAGACCATGTGATCAGCGTGGATGCACCTCAGATCCATAACC  
 ACTTGTGGCAGCCCAAGCGGCCACGGTGCCAAAGAAGACCCAGACTCGTAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM\_001115076

<b>Insert Size:</b>	4746 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>	<u>NM_001115076.1, NP_001108548.1</u>
<b>RefSeq Size:</b>	7978 bp
<b>RefSeq ORF:</b>	4746 bp
<b>Locus ID:</b>	227634
<b>Cytogenetics:</b>	2 A3
<b>Gene Summary:</b>	Key microtubule-organizing protein that specifically binds the minus-end of non-centrosomal microtubules and regulates their dynamics and organization. Specifically recognizes growing microtubule minus-ends and stabilizes microtubules. Acts on free microtubule minus-ends that are not capped by microtubule-nucleating proteins or other factors and protects microtubule minus-ends from depolymerization. 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. Through interaction with spectrin may regulate neurite outgrowth. [UniProtKB/Swiss-Prot Function]