

Product datasheet for **MC229634**

Camsap1 (NM_001276359) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Camsap1 (NM_001276359) 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: >MC229634 representing NM_001276359
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGTGGACGCGGGCGGTGCTGTGCCCGCAAGGCTGGAGGAGGATGGAGGCGCCCCGGAGGGCGCCG
 ACCTGGTGGCGCTGGACCGCTACGACCGCGCGGGCCAAAGATCGCCGCCAACCTGCAGTGGATCTGTGC
 GAAGGCCTATGGCCTAGACAACATCCCTGAGGACCTCCGAGACCGGTTTTACATCGACCAGTATGAGCAG
 GAGCACATTAAGCCACCGTTATCAAGCTTCTCCTGTCCAGTGAGCTGTATTGCCGTGTCTGCAGCCTCA
 TCCTAAAAGGGGACCAGGTGGCTACCTTGAAGGACACCAGTCTGTCTATCCAGGCCCTGTCCCGAAGGG
 CATCTATGTGATGGAGAGTGATGATACCCTGTGACAGATGCTGACCTCAGCCAGGCACCTATTAAGATG
 AGTGGCCACATGGCGATGGTGGATGCCCTGATGATGGCTTACACTGTGGAGATGATCAGCATTGAGAAGG
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 CATGGTATTCTGGATCAATAAGGTAAATCTTAAAATGAGAGAGATAACAGAGAAAGAAGTAAATAAAA
 CAGCAGCCACTGGAAAGTCCCGCTCATCAAAGGTCCGTTATCGCGGAGAGCACCTCTCTGCTAGGCAGT
 CACCCTACTTCCGTTGTTGGAGGACTGATGAGAGACGGCAGTGTGGCGCTGCTCTTAGCAGTGGT
 TCACTATTATTGCCAGAGCAGATGAAACTGGATGATATCTGTCTGAAGGAGGTGCCATCAATGGCTGAC
 AGCCTCTATAACATCCGCCTTCTGAGGGAGTTTTCCAACGAGCATCTGAACAAGTGTCTATCTCACGC
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 GTGTTACAGCAGAAGAGCAGCCGGCCTCCTGTCCCTATCTCCAATGCAACCAAACGCAGCTTCTGGGTA
 GCCCTGCTGCCATGAGCCCCGTGACCAGCCACCATCCACCCAGCCTCTTGTGAAGGCAGTCATCGGTA
 CCACCTCCACTCGGAAGAACCTGAGTGTCTTGGGAAAGGAGCTTCCACATTTAGTCCGTCATCCTTTG
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 ATTCTTTAACTCGGGTTGATGGTCAGCCACGAGGTGCAATAGGAGCATGGCCAGATAAAAAAACAGGCC
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ACCAGCCCCATCCCTCCGCTGGAAAGAGCAATGGGAAAAGCCTCCTGAGCAATGTCAACATTGAGGATGA
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 CCTCAGGCCCCAGGCCTGGTAGCAAGTATCAGGTCTCCCAGAGACAGGCAGACACTTTGGAGAGTAAGC
 CTGACAGTTTTTACTTAGAACCCCTGATGCCAGCAGTACTCCGGCCAGCCAAAGAGAAGCAGATTACCAC
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 CCTATGGTACGAAAGAAAGTAAGTGGTGGCCATGGCAGTCGTGACCTGAACAGAACTTTCACCCCAATTC
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 CATGTAGGCAGGGCTGAGGAAGATGAGGGGAGGTGGTACGTTGGTTCACAAAAGTCTAGCTCCCACGACT
 CAGAACCCTGGACCATTTTGGAGCAAGACTCGGACTCTGATGTAGTAGACGTAGAGGATACAGAGCAGGA
 TTTTATTGGTGGAGACCACCTGTGGTTATCCCCAGATATGCTGGTGGGAAGAGTCAGCCAAACTACAG
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 CCATTCTCAGCTCAGCAGCATGTCATGGCCAGTGGAAAGTGTAAAGATGACCAGCTTTGCTGAAAGGAA
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 GCTGCTCTGCATGATGGAGAGAAGCACAGAATGATTTCTACGGCCCTCCTCGAGGATAGTGTGGTGAGG
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 ACTGAAGATCTCCAGCAGCAAGAGCAGCTTCTCATGAAGTCCCCACAGTCCAAACCCGGGCACTAAA
 AATAACTGCCAGGACCAAAAAATAAAGGCCCCAGTCCACTTTGTTGAGCCACTCTCCAACCTGGCGTGC
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 AGTGTCTCTTCGACAGTTATAGGCTCCATGATGAGAGTAACCATCGGACATTTGTTCTGTCTCTTGCAA
 AGATGCAAACTTGTATCAGAACAGGTGAACCTTAAAGAGGGTCTAGATACAAGTGTGAAAGAGGCAGGG
 CTGAGCTCCTCTACCATCACAGGCAAGAACAATACTCCAGTGGAAGAGCCGCTGAGGAGCAAGGCCAGCC
 TCATTGAGGTAGACCTCTCTGACCTGAAGGCCCTGATGAGGATGGAGAGGTGGTTGGCCATGAGAGCTC
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 GAAGATGAGCTTGTCTAAGAAGCGGGCAGCCTTCTTTTGAACAGCAGCGCAAGGCTGAAGAGGCTCGTG
 CGCGCAAGCAGCAGCTGGAGGCAGAAGTGGAGCTCAAGCGAGATGAAGCCCGGCGTAAGGCTGAAGAGGA
 TCGACTACGGAAGGAGGAGGAGAAGGCAAGGCGGAGAGCTCATTAAACAGGAATACTTACGGAGGAAGCAG
 CAGCAGGCCTTGGAGGAGCAAGGACTTGGCAAACCTAAATCAAAGCCTAAAAAGCCTCGGCCAAAGTCAG
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 CTCTGGCTCCAGCCTATCCTTGGCATCTGCAGCAACAACAAGAACCTGAGAGTGTATTATCGGGGGGCACA
 CCTTCTACCCAGTGTGAATCACTGGAAGCTTTACCTATCCTGAGCCGCAACCCAGTCGGAGCAGACGACC
 GAGACTGGGAGACTGCATCAGCAGCTTCCCTTTGGCCTCTGTGGCTGAGTACACAGTCTTAAACTCTT
 TAAGGAGCCCAGTAGCAATCAAACAACCAATTATTCACAATGCCATCTCCCACTGCTGTCTGGCTGGA
 AAAGTGAATGAGCCTCACAAGAATTCAATATTGGAGGAGCTGGAGAAGTGTGATGCCAACCACTATATTA
 TTCTGTTCCGAGATGCGGGCTGCCAGTTTCAAGGCACTTTACTGCTACCAACCCGACACTGAAGAAATCTA
 CAAACTCACTGGCAGGGGCCAAAAAGCATCACCAGAAGATGATTGACAACTATATAAATACAGCTCA
 GACCGAAAGCAGTTTAACTGATCCCAGCCAAGACCATGTCAGTCAGCGTGGATGCACTCAGCATCCATA
 ACCACTTGTGGCAGCCCAAGCGGCCACGGTGCCAAAGAAGACCCAGACTCGTAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001276359

Insert Size:	4749 bp
OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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_001276359.1 , NP_001263288.1
RefSeq Size:	7996 bp
RefSeq ORF:	4749 bp
Locus ID:	227634
UniProt ID:	A2AHC3
Cytogenetics:	2 A3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the shortest transcript and encodes the shortest protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data from different strains to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>