

Product datasheet for MC224719

Camsap1 (NM_001115076) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Camsap1
Synonyms:	9530003A05Rik; C77823; PRO2405
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224719 representing NM_001115076 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGTGGACGCGGGCGGTGCTGTGCCCGGAAGGCTGGAGGAGGATGGAGGCGCCCGGAGGGCGCCG
ACCTGGTGGCGCTGGACCGCTACGACGCGGGCGGGCCAAGATCGCCGCCAACCTGCAGTGGATCTGTGC
GAAGGCCTATGGCCTAGACAACATCCCTGAGGACCTCCGAGACCCGTTTACATCGACCAGTATGAGCAG
GAGCACATTAAGCCACCCGTTATCAAGCTTCTCCTGTCCAGTGAGCTGTATTGCCGTGTCTGCAGCCTCA
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CATCTATGTGATGGAGAGTGATGATACCCCTGTGACAGATGCTGACCTCAGCCAGGCACCTATTAAGATG
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CCTTCTCACCGAGTTGAATCACTGGAAGCTTACCTATCCTGAGCCGAACCCAGTCGGAGCACAGACC
GAGACTGGGAGACTGCATCAGCAGCTTCTCTTTGGCCTCTGTGGCTGAGTACACAGGTCCTAAACTCTT
TAAGGAGCCAGTAGCAAAATCAAAACAACCAATTATTACAATGCCATCTCCCACTGCTGTCTGGCTGGA
AAAGTGAATGAGCCTCACAGAATCAATATTGGAGCTGGAGAAGTGTGATGCCAACCACTATATTATTC
TGTTCCGAGATGCGGGCTGCCAGTTCAGGGCAGTACTGCTACCAACCCGACACTGAAGAAATCTACAA
ACTCACTGGCACGGGGCCAAAAAGCATCACCAAGAAGATGATTGACAAACTATATAAATACAGCTCAGAC
CGAAAGCAGTTTAACTGATCCAGCCAAGACCATGTCAAGTCAAGGCTGGATGCACTCAGGATCCATAACC
ACTTGTGGCAGCCAAAGCGGCCACGGTGCACAAAGAAGACCAGACTCGTAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001115076

Insert Size: 4746 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).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001115076.1 , NP_001108548.1
RefSeq Size:	7978 bp
RefSeq ORF:	4746 bp
Locus ID:	227634
Cytogenetics:	2 A3
Gene Summary:	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]