

Product datasheet for **SC338051**

CAMSAP1L1 (CAMSAP2) (NM_001297708) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAMSAP1L1 (CAMSAP2) (NM_001297708) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAMSAP1L1
Synonyms:	CAMSAP1L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001297708, the custom clone sequence may differ by one or more nucleotides

ATGGGGGATGCTGCAGACCCAGGGAGATGAGAAAGACGTTTCATTGTTCCAGCCATCAAGCCTTTTGACC
 ACTATGATTTCTCCAGGGCCAAATCGCCTGCAATCTGGCCTGGCTGGTGGCCAAAGCCTTTGGGACAGA
 AAATGTGCCAGAGGAACCTCAAGAACCATTTTACACAGATCAGTATGACCAGGAACACATCAAACACCT
 GTTGTTAATTTGCTTCTATCGGCTGAACATACTGTCGTGCTGGGAGTCTCATTCTCAAGAGTGATGCTG
 CAAAACCCCTTTTGGGCCATGATGCTGTAATCCAGGCTTAGCACAGAAAGGTCTTTATGCTACTGACCA
 GGAAAAATTGGTAACTGAACGAGATCTCCACAAGAAACCCATACAGATGAGTGCACATTTGGCCATGATC
 GATACCCTCATGATGGCTTATACTGTAGAAATGGTCAGTATAGAAAAAGTAATTGCGTGTGCTCAGCAGT
 ATTCAGCTTTTTTCAAGCCACAGATCTGCCCTATGATATTGAGGACGCTGTCATGTACTGGATAAATAA
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 TGTTGTCAGATTAGAGGATATTTGTTGAAAGAACTATGTCTTTGGCTGATAGCCTGTATAATCTGCAG
 CTGATTCAGAATTTTGCCAAGAATACTGAACCAAGTGTGTCATTCTACTCTGGAAGATATGCTCTATG
 CTGCTTCATCCATAAAGAGTAATTATTTGGTGTTCATGGCGGAAGTGTCTGGTGGTTGAAGTGGTGAA
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 CCTGTCTTGAATGCTGCCAAAAGAAATGTCTTAGATAGTAGTTCTGACTTCCCTTCAAGGTATTCACGTC
 CCCAGGCTCATTCTCAGCCTCAGGAGGAATTAGAAGGTCTTCATCTATGTCTTATGTTGATGGCTTCAT
 AGGGACATGGCCCAAAGAGAAAAGATCATCAGTGCATGGCGTATCATTTGATATTTCTTTTGATAAGAA
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 AATGAACATAAATTCTAATGAGAATATTCATTACAAGCTTCCAAATGGAGCTTTACAAAATAGAATACTTC
 TTGACGAGTTTGCAATCAGATCGAGACCAAGCATTGAAGAAGCATTACAAATAATTCATGATACTGA



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AAAATCTCCTCATACACCTCAGCCAGACCAAATTGCTAATGGCTTCTTTCTTCATAGTCAAGAAATGAGT
ATCTTAAATTCAAATATCAAGTTAAATCAATCTAGTCCTGATAATGTAACGTATACGAAAGGTGCCTTGA
GTCCCATAACTGACAATACTGAAGTAGACACTGGAATTCACGTTCTTCAGAAGATATTCCTGAACTAT
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CAGACTCCCCTCGTCTACTCACCCATCTCCACAGTCTTCTAACAGGAAAAGTGCATCTTTTTCTGTTAA
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AGCCTTTCTTTGGCATCGCTGAACACGGGTGATAACGAGAGTGTACATTAGGCAAGAGGACGCCAAGAT
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GCAAAATCCAATAAGCACATAATACAAATGCTTTAGCTCATTGCTGTTTGGCTGGAAAAGTAAATGAAG
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TTCAGGATGCCAGTTCAGATCTTTATACACTATTGCCCAGAACTGAAGAAATCAATAAACTGACTGGG
ATAGGCCCTAAATCTATCACTAAAAAATGATTGAAGGACTTTACAAATATAATTCTGACAGGAAACAGT
TTAGCCACATACCCGCTAAAACCTTATCTGCCAGTGTGATGCAATTACCATTATAGCCATTTATGGCA
GACCAAAAGACCAGTAACACCCAAAAAACTTTTACCCACTAAGGCATAG

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Restriction Sites: SgfI-MluI

ACCN: NM_001297708

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:

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_001297708.1, NP_001284637.1

RefSeq Size: 7321 bp

RefSeq ORF: 4389 bp

Locus ID: 23271

UniProt ID: Q08AD1

Cytogenetics: 1q32.1

Gene Summary: Key microtubule-organizing protein that specifically binds the minus-end of non-centrosomal microtubules and regulates their dynamics and organization (PubMed:23169647, PubMed:24486153, PubMed:24706919). Specifically recognizes growing microtubule minus-ends and autonomously decorates and stabilizes microtubule lattice formed by microtubule minus-end polymerization (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 addition, it also reduces the velocity of microtubule polymerization (PubMed:24486153, PubMed:24706919). Through the microtubule cytoskeleton, also regulates the organization of cellular organelles including the Golgi and the early endosomes (PubMed:27666745). Essential for the tethering, but not for nucleation of non-centrosomal microtubules at the Golgi: together with Golgi-associated proteins AKAP9 and PDE4DIP, required to tether non-centrosomal minus-end microtubules to the Golgi, an important step for polarized cell movement (PubMed:27666745). Also acts as a regulator of neuronal polarity and development: localizes to non-centrosomal microtubule minus-ends in neurons and stabilizes non-centrosomal microtubules, which is required for neuronal polarity, axon specification and dendritic branch formation (PubMed:24908486). Through the microtubule cytoskeleton, regulates the autophagosome transport (PubMed:28726242).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) lacks an alternate in-frame exon and uses an alternate in-frame splice site, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.