OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC338058

CAMSAP1L1 (CAMSAP2) (NM_001297707) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAMSAP1L1 (CAMSAP2) (NM_001297707) 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_001297707, the custom clone sequence may differ by one or more nucleotides

ATGGGGGATGCTGCAGACCCCAGGGAGATGAGAAAGACGTTCATTGTTCCAGCCATCAAGCCTTTTGACC
ACTATGATTTCTCCAGGGCCAAAATCGCCTGCAATCTGGCCTGGCTGGTGGCCAAAGCCTTTGGGACAGA
AAATGTGCCAGAGGAACTTCAAGAACCATTTTACACAGATCAGTATGACCAGGAACACATCAAACCACCT
GTTGTTAATTTGCTTCTATCGGCTGAACTATACTGTCGTGCTGGGAGTCTCATTCTCAAGAGTGATGCTG
CAAAACCCCTTTTGGGCCATGATGCTGTAATCCAGGCTTTAGCACAGAAAGGTCTTTATGTCACTGACCA
GGAAAAATTGGTAACTGAACGAGATCTCCACAAGAAACCCATACAGATGAGTGCACATTTGGCCATGATC
GATACCCTCATGATGGCTTATACTGTAGAAATGGTCAGTATAGAAAAAGTAATTGCGTGTGCTCAGCAGT
ATTCAGCTTTTTTTCAAGCCACAGATCTGCCCTATGATATTGAGGACGCTGTCATGTACTGGATAAATAA
GGTAAATGAACATTTGAAAGACATAATGGAACAAGAACAAAAACTGAAAGAACATCACACAGTTGAAGCT
CCAGGAGGTCAAAAGTCTCCTTCCAAATGGTTTTGGAAACTGGTTCCAGCTCGTTATCGGAAAGAGCAAA
CATTGCTTAAGCAACTGCCTTGCATTCCATTGGTAGAAAATTTGTTGAAGGATGGGACAGATGGCTGTGC
ATTAGCTGCCCTTATTCATTTTTACTGTCCTGATGTTGTCAGATTAGAGGATATTTGTTTGAAAGAAACT
ATGTCTTTGGCTGATAGCCTGTATAATCTGCAGCTGATTCAAGAATTTTGCCAAGAATACTTGAACCAGT
GTTGCCATTTCACTCTGGAAGATATGCTCTATGCTGCTTCATCCATAAAGAGTAATTATTTGGTGTTCAT
GGCGGAACTGTTCTGGTGGTTTGAAGTGGTGAAGCCGTCTTTTGTACAGCCTCGTGTTGTTCGTCCACAA
GGAGCTGAACCTGTAAAAGATATGCCTTCAATTCCTGTCTTGAATGCTGCCAAAAGAAATGTCTTAGATA
GTAGTTCTGACTTCCCTTCAAGTGGGGAAGGAGCTACATTTACACAGTCTCATCATCATTTGCCTTCTAG
GTATTCACGTCCCCAGGCTCATTCTTCAGCCTCAGGAGGAATTAGAAGGTCTTCATCTATGTCTTATGTT
GATGGCTTCATAGGGACATGGCCCAAAGAGAAAAGATCATCAGTGCATGGCGTATCATTTGATATTTCTT
TTGATAAAGAAGATAGTGTACAGAGATCCACTCCAAACCGAGGAATCACTCGTTCTATTAGTAATGAAGG
ACTTACTCTGAACAACAGTCATGTATCTAAACACATTAGGAAAAATTTGTCCTTCAAGCCAATAAATGGA
GAAGAGGAAGCAGAGAGCATTGAAGAAGAACTTAATATAGATTCTCACAGTGACCTCAAATCTTGTGTGC
CCCTTAACACAAATGAACTAAATTCTAATGAGAATATTCATTACAAGCTTCCAAATGGAGCTTTACAAAA

View online »

TAGAATACTTCTTGACGAGTTTGGCAATCAGATCGAGACACCAAGCATTGAAGAAGCATTACAAATAATT
CATGATACTGAAAAATCTCCTCATACACCTCAGCCAGACCAAATTGCTAATGGCTTCTTTCTTCATAGTC
AAGAAATGAGTATCTTAAATTCAAATATCAAGTTAAATCAATCTAGTCCTGATAATGTAACTGATACGAA
AGGTGCCTTGAGTCCCATAACTGACAATACTGAAGTAGACACTGGAATTCACGTTCCTTCAGAAGATATT
CCTGAAACTATGGACGAAGATTCTTCGTTGAGAGATTATACTGTAAGCTTGGACTCTGACATGGATGATG
CATCTAAATTTCTTCAGGATTATGATATTCGAACTGGCAACACCAGGGAAGCTTTGAGTCCTTGTCCAAG
TACTGTAAGTACCAAGTCTCAGCCAGGCAGCAGTGCTTCTTCTAGTTCTGGAGTTAAAATGACCAGCTTT
GCTGAACAAAAATTCAGGAAACTGAATCATACCGATGGAAAAAGTAGTGGAAGCAGTTCTCAAAAAACTA
CACCAGAAGGCTCTGAACTTAATATTCCTCATGTGGTTGCTTGGGCACAAATTCCAGAAGAAACAGGGCT
TCCACAGGGACGGGACACTACCCAGCTGTTGGCCTCTGAAATGGTGCATCTTAGGATGAAACTAGAAGAA
AAGAGGCGTGCTATAGAAGCCCAGAAAAAGAAAATGGAAGCTGCTTTTACCAAACAGAGACAGAAAATGG
GAAGGACAGCATTCCTTACTGTAGTGAAAAAGAAAGGGGATGGGATATCTCCTCTACGAGAGGAAGCGGC
GGGTGCAGAAGATGAGAAAGTATATACTGATCGAGCAAAAGAAAAGGAATCACAAAAAACTGATGGACAA
AGGAGCAAGTCACTGGCAGATATAAAAGAGAGCATGGAGAATCCTCAAGCCAAATGGCTAAAGTCTCCAA
CTACACCTATTGATCCTGAGAAGCAGTGGAACCTGGCAAGCCCCTCAGAAGAAACTTTAAATGAAGGAGA
GATTTTAGAATATACCAAATCCATTGAAAAGTTAAATTCATCCCTGCATTTTCTACAACAAGAAATGCAA
CGCTTGTCACTTCAGCAGGAGATGTTAATGCAGATGAGAGAGCAACAATCTTGGGTGATTTCACCTCCAC
AACCCTCTCCACAGAAACAGATTCGAGATTTTAAGCCTTCTAAGCAGGCAGGCCTGTCATCAGCCATTGC
ACCATTCTCCTCAGACTCCCCTCGTCCTACTCACCCATCTCCACAGTCTTCTAACAGGAAAAGTGCATCT
TTTTCTGTTAAAAGTCAAAGGACTCCTAGGCCAAATGAGTTAAAAATAACACCTTTGAATCGAACCTTGA
CACCTCCTCGGTCTGTGGATAGCCTTCCTCGGTTAAGGAGGTTTTCACCAAGTCAAGTTCCTATTCAAAC
TAGGTCATTTGTATGTTTTGGGGATGATGGAGAACCTCAGTTAAAGGAATCCAAACCTAAAGAGGAAGTT
AAAAAGGAGGAATTGGAATCCAAAGGGACTTTGGAACAGCGTGGACATAATCCAGAAGAAAAGGAAATCA
AACCTTTTGAGTCAACAGTCTCTGAAGTCCTATCACTGCCTGTCACAGAGACTGTATGTCTGACACCAAA
TGAGGACCAATTGAATCAACCCACAGAACCCCCTCCTAAACCCGTTTTCCCACCCACTGCTCCAAAAAAT
GTTAATCTGATTGAAGTTTCCCTCTCAGATTTGAAACCCCCTGAAAAGGCTGATGTACCTGTTGAAAAAT
ATGATGGAGAAAGTGATAAAGAACAATTTGATGATGACCAGAAAGTATGCTGTGGATTCTTTTTTAAGGA
TGATCAAAAAGCAGAAAATGATATGGCAATGAAACGGGCAGCTTTGTTGGAGAAAAGATTAAGAAGGGAA
AAGGAAACTCAGCTCCGGAAACAACAGTTGGAAGCAGAAATGGAGCATAAGAAGGAGGAAACAAGGCGTA
AAACTGAGGAAGAACGTCAGAAGAAAGAAGATGAGAGAGCACGCAGAGAATTTATTAGGCAAGAATATAT
GAGGCGGAAACAACTGAAACTAATGGAAGATATGGATACAGTAATTAAACCCCGTCCTCAAGTAGTAAAA
CAAAAAAAACAGCGACCAAAATCTATTCACAGAGATCATATTGAATCCCCCAAAACACCAATAAAGGGTC
CTCCAGTCTCTAGCCTTTCTTTGGCATCGCTGAACACGGGTGATAACGAGAGTGTACATTCAGGCAAGAG
GACGCCAAGATCAGAGTCTGTAGAAGGCTTCTTATCTCCAAGTCGTTGTGGCAGTCGAAATGGAGAAAAA
GACTGGGAGAATGCATCAACAACTTCTTCAGTGGCTTCTGGAACAGAATATACAGGACCAAAGCTCTACA
AAGAACCCAGTGCAAAATCCAATAAGCACATAATACAAAATGCTTTAGCTCATTGCTGTTTGGCTGGAAA
AGTAAATGAAGGTCAGAAGAAAAAAATACTGGAGGAAATGGAGAAATCAGATGCCAACAACTTCTTAATC
TTGTTCCGGGATTCAGGATGCCAGTTCAGATCTTTATACACTTATTGCCCAGAAACTGAAGAAATCAATA
AACTGACTGGGATAGGCCCTAAATCTATCACTAAAAAAATGATTGAAGGACTTTACAAATATAATTCTGA
CAGGAAACAGTTTAGCCACATACCCGCTAAAACTTTATCTGCCAGTGTTGATGCAATTACCATTCATAGC
CATTTATGGCAGACCAAAAGACCAGTAACACCCAAAAAACTTTTACCCACTAAGGCATAG

Restriction Sites: SgfI-MluI

ACCN: NM_001297707

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_001297707.1, NP_001284636.1
RefSeq Size:	7402 bp
RefSeq ORF:	4470 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 (1) represents the longest transcript and encodes the longest isoform (1).