

Product datasheet for **SC122524**

CLASP2 (BC029035) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLASP2 (BC029035) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLASP2
Synonyms:	CLIP-associating protein 2; cytoplasmic linker associated protein 2; multiple asters (Mast)-like homolog 2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for BC029035 edited
 GCCGGCACAAACCTCAGTGGTGGTTCTGTGGTTGTTTCTGTCTTTTTGATACAATCTT
 TGATTAGTATCGAATTTACTGTATTTGGCCATGTGAACCTATTGGGAGCCTCTAGGGTGA
 GGGAAATTAAGAGCTTTACAGAGGAATGAGGCGACTGATTTGCAAACGGATCTGTGATTAT
 AAAAGCTTCGATGATGAAGAATCAGTGGATGGAATAGGCCATCATCAGCTGCATCAGCC
 TTCAAGGTTCTGCACCTAAAACATCCGGAAATCCTGCCAACAGTGCAAGGAAGCCTGGT
 TCACAGGTGGCCCTAAGGTTGGAGGTGCTTCTAAGGAAGGAGGTGCTGGAGCAGTTGAT
 GAAGATGATTTTTATAAAAGCTTTTACAGATGTCCCTTCTATTAGATTTATTCTAGTCGA
 GAACTCGAAGAAACATTAAATAAAATCAGGGAATTTTGTGATGATAAACATGACTGG
 GATCAGCGTGCCAATGCACTGAAGAAAATTCGATCACTGCTTGTGCTGGAGCTGCACAG
 TATGATTGCTTTTTCAACATTTACGATTGTTGGATGGAGCACTTAAACTTTAGCTAAG
 GATCTTAGATCCCAGGTGGTTAGAGAAGCTTGTATTACTGTAGCCACCTTTCAACAGTT
 TTGGGAAACAAGTTTATCATGGCGCTGAAGCCATTGTACCTACACTTTTAAATCTCGTC
 CCCAATAGTGAAAAGTCATGGCAACTTCTGGATGTGCAGCAATCAGATTTATCATTGG
 CATACTCATGTACCCAGACTTATACCTTTAATAACAAGCAATTGCACATCAAATCAGTT
 CCCGTGAGGAGACGTTTCAATTTGAATTTTATGATTTATTGTTGCAAGAGTGGCAGACTCAT
 TCATTGGAAGACATGCAGCCGCTTGGTTGAAACTATTAAGGAAGGAAATTCATGATGCT
 GACGCTGAGGCCAGAGTGGAGGCAAGAAAGACATACATGGGTCTTAGAAACCACTTCTCT
 GGTGAAGCTGAAACATTATAATTCCTTGGCCATCTTATCAGAAGAGTCTTCAAACCT
 TACTTAAAGAGTCTGGCAGTGTAGCATCTTCCACAATCAGACAGGTCCTCATCCAGC
 TCACAGGAAAGTCTCAATCGCCCTTTTCTTCAAATGGTCTACAGCAAATCCATCAACT
 GTGGCTGGAAGAGTATCAGCAGGCAGCAGCAAAGCCAGTCCCTTCCAGGAAGCCTGCAG
 GTTACGAAGTGACATTGATGTGAATGCTGCTGCAGGTGCCAAGGCACATCATGCTGCT
 GGACAGTCTGTGCGAAGCGGCGCTTAGGTGCAGGTGCCCTGAATGCAGGTTCTTATGCG
 TCACTAGAATGTGAAGCCTTTTGGAGATCTGGGAGAACTGCAAAGCTCTACTCTGTCTAA
 CCAAACCTAAACATATATCCAAAACCTATTAGTTTATTTCTTATGTTTTTATGT
 CTATCAAATTAAGGTTGACGTTGGTTGCGTAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for BC029035 unedited
 NNNAAAGTTCATACTTTGTAAATACCGATTCACTATTAGGGCGGCCCGNATATCATAT
 CTGGTACCGGTCCCGATTTCCCGGGCTGCCGGCACAAACCTCAGTGGTGGTTCTGTGGT
 TGTTTCTGTCTTTTTGATACAATCTTTGATTAGTATCGAATTTACTGTATTTGGCCAT
 GTGAACATTGGGAGCCTCCTAGGTTGAGGGAATTAAGAATTTACAGAGGAATTGAGGC
 GACTGATTTGCAAACGGATCTGTGATTATTAAGCTTCGATTGATGAAGAATCAGTGGAT
 GGAATAGGCCATCATCAGCTGCATCAGCCTTCAAGTTCTGCACCTAAAACATCCGGA
 AATCCTGCCAACAGTGAAGGAAGCCTGGTTCAGCAGGTGGCCCTAAAGTTGGAGGTGCT
 TCTAAAGAAGGAGGTGCTGGAGCAGTTGATGAAGATGATTTTATAAAAGCTTTTACAGAT
 GTCCCTTCTATTCAGATTTATTCTAGTCGAGAACTCGAAGAAACATTAATAAAATCAGG
 GAAATTTGTGATGATAAACATGACTGGGATCAGCGTGCCAATGCACTGAAGAAAAT
 CGATCACTGCTTGTGCTGGAGCTGCACAGTATGATTGCTTTTTCAACATTTACGATTG
 TTGGATGGAGCACTTAACTTTTACGCTAAAGATCTTAGATCCCAGGTGGTTAGAGAAGCT
 TGTATTACTGTAGCCACCTTTCAACAGTTTTAGGAAACAAGTTTATGATCATGGCGCTGAA
 GCCATTGTACCTACATTTTAAATCTCGTCCNCNATAGTGCAAAAAGTTTATGGCATTCT
 GGATGTGCAGCANTCAGATTTATCATTTTCGATACTCATGTACCCAGACTTATACCTTTT
 ATNAANCAGCATTGCACATCAAATCAGTTTCCGTGAGGAGACGTTCAATTTGAT

Restriction Sites: Please inquire

ACCN: BC029035

Insert Size: 1583 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info</p>
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:	BC029035.1 , AAH29035.1
RefSeq Size:	1583 bp
Locus ID:	23122
Cytogenetics:	3p22.3
Gene Summary:	<p>Microtubule plus-end tracking protein that promotes the stabilization of dynamic microtubules (PubMed:26003921). Involved in the nucleation of noncentrosomal microtubules originating from the trans-Golgi network (TGN). Required for the polarization of the cytoplasmic microtubule arrays in migrating cells towards the leading edge of the cell. May act at the cell cortex to enhance the frequency of rescue of depolymerizing microtubules by attaching their plus-ends to cortical platforms composed of ERC1 and PHLDB2 (PubMed:16824950). This cortical microtubule stabilizing activity is regulated at least in part by phosphatidylinositol 3-kinase signaling. Also performs a similar stabilizing function at the kinetochore which is essential for the bipolar alignment of chromosomes on the mitotic spindle (PubMed:16866869, PubMed:16914514). Acts as a mediator of ERBB2-dependent stabilization of microtubules at the cell cortex.[UniProtKB/Swiss-Prot Function]</p>