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 MC224148

Clasp2 (NM_029633) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clasp2 (NM_029633) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clasp2
Synonyms:	1500004F14Rik; 8030404L10Rik; C77448; CLASP2beta; mKIAA0627
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224148 representing NM_029633 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGGCGGCTGATTTGCAAACGGATCTGTGATTATAAAAGCTTTGATGATGAGGAATCAGTGGATGGAA ATAGGCCGTCGTCAGCTGCTTCAGCCTTCAAGGTTCCTGCACCTAAAACACCTGGGAATCCTGTCAGCAG TGCAAGAAAGCCTGGCTCAGCAGGTGGCCCTAAGGTTGGAGGTCCTTCTAAAGAAGGAGGGGCTGGAGCA GTTGATGAAGATGACTTTATAAAAGCTTTTACAGATGTTCCTTCTGTTCAGATCTATTCTAGTCGAGAAC TTGAAGAGACGTTAAATAAGATCAGGGAAATTTTGTCAGATGACAAACATGACTGGGACCAGCGTGCCAA TGCGCTTAAGAAAATCAGATCACTGCTTGTTGCTGGAGCCGCACAGTATGATTGCTTTTTCCAGCACCTA CGTTTGTTGGATGGAGCGCTTAAGCTGTCAGCTAAGGACCTCAGATCCCAGGTGGTCAGGGAAGCTTGCA TCACTGTTGCTCACCTTTCAACAGTCTTGGGAAACAAATTTGATCACGGCGCTGAAGCCATCGTCCCTAC GCTTTTTAATCTTGTCCCCAATAGTGCCAAAGTCATGGCGACCTCTGGATGTGCAGCAATCAGATTTATT ATTCGGCATACCCATGTACCTAGACTTATTCCTTTAATAACAAGCAACTGCACATCAAAGTCAGTTCCTG TAAGGAGACGTTCATTTGAATTTTTAGATTTGCTGCTGCAAGAATGGCAGACTCATTCACTGGAAAGACA TGCAGCTGTTTTGGTTGAAACGATTAAGAAGGGCATTCATGATGCTGATGCTGAGGCCAGAGTGGAGGCA AGGAAGACATACATGGGCCTTAGGAACCACTTTCCTGGTGAAGCTGAAACATTGTACAACTCCCTTGAGC CATCATATCAGAAAAGTCTTCAAACTTACTTAAAGAGTTCTGGAAGTGTAGCTTCTCTTCCGCAGTCAGA CAGGTCCTCATCCAGCTCACAAGAAAGTCTCAATCGTCCTTTTTCTTCTAAATGGTCAACAGCAAATCCT TCAACTGTAGCTGGAAGAGTATCTGTGGGAGGCAGCAAAGCCAACCCCCTTCCAGGAAGCCTGCAGCGTT CTCGAAGTGACATTGATGTGAATGCGGCAGCTGGTGCCAAGGCTCATCATGCTGCTGGGCAGGCGGTGCG AAGTGGGCGCTTAGGTGCAGGTGCCCTGAACCCAGGCTCCTATGCATCACTAGAGGATACTTCTGACAAG ATGGATGGAACAGCATCTGATGATGGTCGGGTGAGAGCCAAGCTTTCTACACCGCTTGTTGCTGTGGGAA ATGCCAAGACCGACTCTAGAGGGAGAAGCCGGACAAAAATGGTGTCTCAGTCCCAGCCTGGCAGCCGATC TGGGTCTCCAGGAAGAGTTCTAACCACAACAGCCCTCTCTACTGTGAGCTCTGGTGCTCAACGAGTCCTG GTCAATTCAGCTTCAGCACAGAAGAGAAGCAAGATCCCAAGGAGCCAGGGCTGCAGCAGAGAGGCCAGCC

View online »

CATCTCGGCTCTCAGTGGCCCGGAGCAGCCGTATTCCTCGGCCGAGTGTGAGTCAAGGCTGTAGCCGGGA
AGCCAGCAGAGAGAGCAGCAGGGACACGAGTCCGGTGCGCTCCTTCCAGCCGCTGGGTCCGGGATATGGG
ATCAGCCAGTCCAGCCGGTTGTCGTCCTCTGTCAGTGCCATGCGAGTCCTAAACACAGGCTCCGATGTGG
AGGAGGCAGTAGCTGATGCCCTGCTCTTAGGAGACATACGGACTAAGAAAAAACCTGCTCGAAGAAGGTA
TGAATCATATGGAATGCACTCAGATGATGATGCCAACAGCGATGCCTCTAGTGCGTGTTCAGAACGCTCC
TATAGCTCTCGAAATGGTAGTATTCCTACCTACATGAGACAGACAGAAGACGTGGCAGAAGTCCTCAACA
GATGTGCTAGCTCCAATTGGTCAGAGAGGAAAGAAGGCCTCTTGGGTCTGCAGAACTTGTTAAAAAACCA
GAGAACGCTAAGTCGAGTTGAACTGAAAAGATTATGTGAAATTTTCACAAGAATGTTTGCAGATCCTCAT
GGCAAGGTGTTCAGCATGTTCTTGGAGACTCTAGTAGATTTCATACAAGTCCACAAAGATGATCTTCAAG
ATTGGTTGTTTGTTCTGCTGACACAGCTGCTGAAAAAAATGGGTGCTGATTTGCTTGGCTCTGTTCAGGC
AAAAGTTCAGAAAGCCCTTGATATTACAAGAGAGTCTTTTCCAAATGATCTTCAGTTTAATATCCTAATG
AGATTTACAGTTGACCAGACCCAAACGCCAAGCTTGAAGGTAAAGGTGGCTATCCTTAAGTACATAGAAA
CTCTGGCAAAGCAGATGGACCCAAGAGATTTTACAAATTCCAGTGAAACTCGCCTGGCAGTGTCTCGGGT
CATCACTTGGACGACAGAGCCCAAAAGCTCTGATGTTCGGAAGGCAGCGCAGTCAGTGCTGATTTCTTTA
TTTGAACTCAATACCCCAGAGTTTACAATGTTACTAGGAGCTTTACCAAAAACTTTCCAGGATGGTGCTA
CTAAACTTCTTCACAATCACCTCCGGAACACTGGCAATGGCACCCAGAGTTCCATGGGGAGTCCTTTGAC
GAGACCAACACCTCGGTCACCAGCCAACTGGTCCAGTCCTCTTACTTCTCCTACCAACACGTCTCAGAAT
ACGTTATCTCCAAGTGCATTTGATTACGATACAGAGAACATGAATTCTGAAGACATTTATAGCTCCCTTA
GAGGCGTCACTGAGGCAATCCAGAATTTCAGCTTCAGAAGCCAAGAAGATATGAGTGAGCCAGTGAGGAG
GGACCCTAAAAAGGAGGATGGTGACACAATATGTAGTGGTCCTGGGATGTCAGATCCAAGAGCAGGAGGT
GATGCTGCTGACGGCAGCCAGCCAGCTCTGGATAATAAAGCATCGTTGCTCCACTCAATGCCACTCCACT
CCTCTCCACGCTCCCGTGACTATAACCCATATAACTACTCAGATAGCATCAGTCCTTTCAACAAGTCTGC
CCTCAAGGAAGCCATGTTTGATGATGACGCCGACCAATTTCCTGATGATCTTTCCTTAGACCATTCTGAC
CTAGTTGCAGAGTTGTTGAAGGAGCTGTCTAATCATAATGAACGTATAGAAGAAAGAAAAATTGCCCTGT
ATGAACTCATGAAGCTAACCCAGGAAGAATCTTTCAGTGTTTGGGATGAACACTTCAAAACAATATTATT
GTTATTGCTTGAGACCCTTGGGGATAAAGAGCCTACAATCCGGGCCTTGGCATTAAAAGTTTTAAAAGAA
ATCTTAAGGCATCAACCAGCAAGATTCAAAAACTATGCAGAACTAACTGTCATGAAAACACTGGAAGCAC
ATAAAGATCCTCACAAAGAGGTGGTGAGATCTGCTGAGGAAGCTGCCTCCGTATTGGCTACTTCCATTAG
TCCAGAGCAGTGCATCAAAGTGCTTTGTCCCATCATACAAACCGCTGACTACCCTATTAATCTGGCTGCA
ATCAAAATGCAAACAAAAGTGATAGAGAGAGTATCCAAGGAGACCCTTAACATGCTCTTACCAGAGATCA
TGCCGGGTCTAATACAGGGTTATGATAATTCAGAAAGCAGTGTCCGGAAAGCTTGTGTCTTCTGCCTGGT
GGCTGTCCATGCAGTGATTGGTGATGAACTAAAGCCACATCTCAGTCAACTCACTGGTAGTAAAATGAAG
CTGCTGAACCTTTACATCAAGCGTGCACAGACGGGCTCTGCAGGCGCGGACCCCACTGCTGATGTTTCTG
GACAGAGTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_029633

Insert Size: 3861 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:
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_029633.2, NP_083909.2

RefSeq Size: 5624 bp

RefSeq ORF: 3861 bp

Locus ID: 76499

Cytogenetics: 9 F3

Gene Summary: Microtubule plus-end tracking protein that promotes the stabilization of dynamic microtubules. 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. 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. Acts as a mediator of ERBB2-dependent stabilization of microtubules at the cell cortex.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) differs in the 5' UTR, lacks a portion of the 5' and 3' coding region, and initiates translation at an alternate start codon, compared to variant 3. It encodes isoform a, which is shorter and has a distinct N-terminus, compared to isoform c.