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 MC229551

Clasp2 (NM_001286602) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clasp2 (NM_001286602) 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:	>MC229551 representing NM_001286602 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

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CATCTCGGCTCTCAGTGGCCCGGAGCAGCCGTATTCCTCGGCCGAGTGTGAGTCAAGGCTGTAGCCGGGA
AGCCAGCAGAGAGAGCAGCAGGGACACGAGTCCGGTGCGCTCCTTCCAGCCGCTGGCCTCCAGACACCAT
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CCAACACCTCGGTCACCAGCCAACTGGTCCAGTCCTCTTACTTCTCCTACCAACACGTCTCAGAATACGT
TATCTCCAAGTGCATTTGATTACGATACAGAGAACATGAATTCTGAAGACATTTATAGCTCCCTTAGAGG
CGTCACTGAGGCAATCCAGAATTTCAGCTTCAGAAGCCAAGAAGATATGAGTGAGCCAGTGAGGAGGGAC
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TTGCAGAGTTGTTGAAGGAGCTGTCTAATCATAATGAACGTATAGAAGAAAGAAAAATTGCCCTGTATGA
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TTGCTTGAGACCCTTGGGGATAAAGAGCCTACAATCCGGGCCTTGGCATTAAAAGTTTTAAAAGAAATCT
TAAGGCATCAACCAGCAAGATTCAAAAACTATGCAGAACTAACTGTCATGAAAACACTGGAAGCACATAA
AGATCCTCACAAAGAGGTGGTGAGATCTGCTGAGGAAGCTGCCTCCGTATTGGCTACTTCCATTAGTCCA
GAGCAGTGCATCAAAGTGCTTTGTCCCATCATACAAACCGCTGACTACCCTATTAATCTGGCTGCAATCA
AAATGCAAACAAAAGTGATAGAGAGAGTATCCAAGGAGACCCTTAACATGCTCTTACCAGAGATCATGCC
GGGTCTAATACAGGGTTATGATAATTCAGAAAGCAGTGTCCGGAAAGCTTGTGTCTTCTGCCTGGTGGCT
GTCCATGCAGTGATTGGTGATGAACTAAAGCCACATCTCAGTCAACTCACTGGTAGTAAAATGAAGCTGC
TGAACCTTTACATCAAGCGTGCACAGACGGGCTCTGCAGGCGCGGACCCCACTGCTGATGTTTCTGGACA
GAGTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001286602

Insert Size: 3927 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001286602.1, NP_001273531.1
RefSeq Size:	5690 bp
RefSeq ORF:	3927 bp
Locus ID:	76499
UniProt ID:	Q8BRT1
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 (7) 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 g, which is shorter and has a distinct N-terminus, compared to isoform c. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.