

Product datasheet for **MC229356**

Clasp2 (NM_001286601) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Clasp2 (NM_001286601) 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: >MC229356 representing NM_001286601
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGACCTCTGGATGTCAGCAATCAGATTTATTATTCGGCATACCCATGTACCTAGACTTATTCCTT
 TAATAACAAGCAACTGCACATCAAAGTCAGTTCCTGTAAGGAGACGTTTCATTTGAATTTTATAGATTTGCT
 GCTGCAAGAATGGCAGACTCATTCACTGGAAAGACATGCAGCTGTTTTGGTTGAAACGATTAAGAAGGGC
 ATTCATGATGCTGATGCTGAGGCCAGAGTGGAGGCAAGGAAGACATACATGGGCCTTAGGAACCACTTTC
 CTGGTGAAGCTGAAACATTGTACAACCTCCCTTGAGCCATCATATCAGAAAAGTCTTCAAACCTTACTTAAA
 GAGTTCTGGAAGTGTAGCTTCTCTCCGCACTCAGACAGGTCTCATCCAGCTCACAAGAAAGTCTCAAT
 CGTCTTTTTTCTTCTAAATGGTCAACAGCAAATCCTTCAACTGTAGCTGGAAGAGTATCTGTGGGAGGCA
 GCAAAGCCAACCCCTTCCAGGAAGCCTGCAGCGTTCTCGAAGTGACATTGATGTGAATGCGGCAGCTGG
 TGCCAAGGCTCATCATGCTGCTGGGCAGGCGGTGCGAAGTGGGCGCTTAGGTGCAGGTGCCCTGAACCCA
 GGCTCCTATGCATCACTAGAGGATACTTCTGACAAGATGGATGGAACAGCATCTGATGATGGTCGGGTGA
 GAGCCAAGCTTTCTACACCGCTTGTGCTGTGGAAATGCCAAGACCGACTCTAGAGGGAGAAGCCGGAC
 AAAAAATGGTGTCTCAGTCCAGCCTGGCAGCCGATCTGGGTCTCCAGGAAGAGTTCTAACCACAACAGCC
 CTCTCTACTGTGAGCTCTGGTGCTCAACAGTCTGGTCAATTCAGCTTCAAGCACAAGAGAAGCAAGA
 TCCCAAGGAGCCAGGGCTGCAGCAGAGAGGCCAGCCATCTCGGCTCTCAGTGGCCCGGAGCAGCCGTAT
 TCCTCGGCGGAGTGTGAGTCAAGGCTGTAGCCGGGAAGCCAGCAGAGAGAGCAGCAGGGACACGAGTCCG
 GTGCGCTCCTTCCAGCCGCTGGTCCGGGATATGGGATCAGCCAGTCCAGCCGTTGTCGTCCTCTGTCA
 GTGCCATGCGAGTCTAAACACAGGCTCCGATGTGGAGGAGGAGTGTGATGCCCTGCTCTTAGGAGA
 CATAACGGACTAAGAAAAACCTGCTCGAAGAAGGTATGAATCATATGGAATGCACTCAGATGATGATGCC
 AACAGCGATGCCTCTAGTGCCTGTTGAGAACGCTCCTATAGCTCTCGAAATGGTAGTATTCTACCTACA
 TGAGACAGACAGAAGACGTGGCAGAAGTCTCAACAGATGTGCTAGCTCCAATTGGTCAGAGAGGAAAGA
 AGGCCTCTGGGTCTGCAGAACTTGTTAAAAAACCAGAGAACGCTAAGTCGAGTTGAACTGAAAAGATTA
 TGTGAAATTTTACAAGAATGTTTGAGATCCTCATGGCAAGAGAGTGTTCAGCATGTTCTTGGAGACTC



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TAGTAGATTTTCATACAAGTCCACAAAGATGATCTTCAAGATTGGTTGTTTCTGCTGACACAGCTGCT
 GAAAAAATGGGTGCTGATTTGCTTGGCTCTGTTCAAGGAAAAGTTTCAGAAAAGCCCTTGATATTACAAGA
 GAGTCTTTTCAAATGATCTTCAGTTTAAATATCCTAATGAGATTTACAGTTGACCAGACCCAAACGCCAA
 GCTTGAAGGTAAGGTGGCTATCCTTAAGTACATAGAACTCTGGCAAAGCAGATGGACCCAAGAGATTT
 TACAAATTCAGTGAACTCGCCTGGCAGTGTCTCGGGTCATCACTTGGACGACAGAGCCAAAAGCTCT
 GATGTTCCGAAGGCAGCGCAGTCAGTGTGATTTCTTTATTTGAACTCAATACCCAGAGTTTACAATGT
 TACTAGGAGCTTACCAAAAACCTTCCAGGATGGTGTACTAACTTCTTCACAATCACCTCCGGAACAC
 TGGCAATGGCACCCAGAGTTCCATGGGGAGTCCTTTGACGAGACCAACACCTCGGTCAACGCAACTGG
 TCCAGTCTCTTACTTCTCCTACCAACAGTCTCAGAATACGTTATCTCCAAGTGCATTTGATTACGATA
 CAGAGAACATGAATTCTGAAGACATTTATAGTCCCTTAGAGGCGTCACTGAGGCAATCCAGAATTCAG
 CTTCAGAAGCCAAGAAGATATGAGTGAGCCAGTGAGGAGGGACCCAAAAAGGAGGATGGTGACACAATA
 TGTAGTGGTCTGGGATGTCAGATCCAAGAGCAGGAGGTGATGCTGCTGACGGCAGCCAGCCAGCTCTGG
 ATAATAAAGCATCGTTGCTCCACTCAATGCCACTCCACTCCTCTCCACGCTCCCCTGACTATAACCCATA
 TAACTACTCAGATAGCATCAGTCTTTCAACAAGTCTGCCCTCAAGGAAGCCATGTTTGATGATGACGCC
 GACCAATTTCTGATGATCTTTCTTAGACCATTCTGACCTAGTTGCAGAGTTGTTGAAGGAGCTGTCTA
 ATCATAATGAACGTATAGAAGAAAAGAAAATTGCCCTGTATGAACTCATGAAGCTAACCCAGGAAGAATC
 TTTCAAGTGTGGGATGAACACTTCAAAAACAATATTATTGTTATTGCTTGAGACCCTTGGGGATAAAGAG
 CCTACAATCCGGGCTTGGCATTAAAAGTTTTAAAAGAAATCTTAAGGCATCAACCAGCAAGATTCAAAA
 ACTATGCAGAATAACTGTATGAAAACACTGGAAGCACATAAAGATCCTCACAAGAGGTGGTGAGATC
 TGCTGAGGAAGCTGCCTCCGATTTGGCTACTTCCATTAGTCCAGAGCAGTGCATCAAAGTCTTTGTCCC
 ATCATACAAACCGCTGACTACCTATTAATCTGGCTGCAATCAAATGCAAAACAAAAGTGATAGAGAGAG
 TATCCAAGGAGACCCTTAACATGCTCTTACCAGAGATCATGCCGGTCTAATACAGGGTTATGATAATTC
 AGAAAGCAGTGTCCGAAAAGCTTGTGTCTTGCCTGGTGGCTGTCCATGCAGTGATTGGTGATGAACTA
 AAGCCACATCTCAGTCAACTCACTGGTAGTAAAATGAAGCTGCTGAACCTTTACATCAAGCGTGACAGA
 CGGGCTCTGCAGGCGGGACCCACTGCTGATGTTTCTGGACAGAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001286601
- Insert Size:** 3270 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_001286601.1](#), [NP_001273530.1](#)

RefSeq Size: 5644 bp

RefSeq ORF: 3270 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 (6) 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 f, 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.