

Product datasheet for **MC224170**

Clasp2 (NM_001081960) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Clasp2 (NM_001081960) 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: >MC224170 representing NM_001081960
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCGCGTGTATTTGCAAACGGATCTGTGATTATAAAAGCTTTGATGATGAGGAATCAGTGGATGGAA
ATAGGCCGTCGTCAGCTGCTTCAGCCTTCAAGGTTCTGCACCTAAAACACCTGGGAATCCTGTCAGCAG
TGCAAGAAAGCCTGGCTCAGCAGGTGGCCCTAAGGTTGGAGGTCCTTCTAAAGAAGGAGGGGCTGGAGCA
GTTGATGAAGATGACTTTATAAAAGCTTTTACAGATGTTCTTCTGTTTCAGATCTATTCTAGTCGAGAAC
TTGAAGAGACGTTAAATAGATCAGGAAATTTGTCAGATGACAAACATGACTGGGACCAGCGTGCCAA
TGCGCTTAAGAAAATCAGATCACTGCTTGTGCTGGAGCCGCACAGTATGATTGCTTTTTCCAGCACCTA
CGTTTGTGGATGGAGCGCTTAAGCTGTGAGCTAAGGACCTCAGATCCCAGGTGGTCAGGGAAGCTTGCA
TCACTGTTGCTCACCTTTCAACAGTCTTGGGAAACAAATTTGATCACGGCGCTGAAGCCATCGTCCCTAC
GCTTTTTAATCTGTCCCAATAGTGCCAAAGTCATGGCGACCTCTGGATGTGCAGCAATCAGATTTATT
ATTCGGCATACCCATGTACCTAGACTTATCCTTTAATAACAAGCAACTGCACATCAAAGTCAGTTCCCTG
TAAGGAGACGTTTCATTTGAATTTTAGATTTGCTGCTGCAAGAATGGCAGACTATTCACTGGAAGACA
TGCAGCTGTTTTGGTTGAAACGATTAAGAAGGGCATTTCATGATGCTGATGCTGAGGCCAGAGTGGAGGCA
AGGAAGACATACATGGGCCTTAGGAACCTTTCTGGTGAAGCTGAAACATTGTACAACCTCCCTTGAGC
CATCATATCAGAAAAGTCTTCAAACCTACTTAAAGAGTTCTGGAAGTGTAGCTTCTCTTCCGAGTCAGA
CAGGTCCTCATCCAGCTCACAAGAAAGTCTCAATCGTCTTTTTCTTCTAAATGGTCAACAGCAAATCCT
TCAACTGTAGCTGGAAGAGTATCTGTGGGAGGCAGCAAAGCCAACCCCTTCCAGGAAGCCTGCAGCGTT
CTCGAAGTGACATTGATGTGAATGCGGCAGCTGGTGCCAAGGCTCATCATGCTGCTGGGCAGGCGGTGCG
AAGTGGGCGCTTAGGTGCAGGTGCCCTGAACCCAGGCTCCTATGCATCACTAGAGGATACTTCTGACAAG
ATGGATGGAACAGCATCTGATGATGGTGGGTGAGAGCCAAGCTTCTACACCGCTTGTGTGTGGGAA
ATGCCAAGACCGACTCTAGAGGGAGAAGCCGGACAAAAATGGTGTCTCAGTCCCAGCCTGGCAGCCGATC
TGGGTCTCCAGGAAGAGTTCTAACCACAACAGCCCTCTACTGTGAGCTCTGGTGTCAACGAGTCTGT
GTCAATTCAGTTCAGCACAGAAGAGAAGCAAGATCCCAAGGAGCCAGGGCTGCAGCAGAGAGGCCAGCC



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CATCTCGGCTCTCAGTGGCCCGGAGCAGCCGATTCCTCGGCCGAGTGTGAGTCAAGGCTGTAGCCGGGA
 AGCCAGCAGAGAGAGCAGCAGGGACACGAGTCCGGTGCCTCCTCCAGCCGCTGGGTCCGGGATATGGG
 ATCAGCCAGTCCAGCCGGTTGTCGTCTCTGTCAGTGCCTGCGAGTCCCTAACACAGGCTCCGATGTGG
 AGGAGGCAGTAGCTGATGCCCTGCTCTTAGGAGACATACGACTAAGAAAAACCTGCTCGAAGAAGGTA
 TGAATCATATGGAATGCACTCAGATGATGATGCCAACAGCGATGCCTCTAGTGCCTGTTGAGAAGCTCC
 TATAGCTCTCGAAATGGTAGTATTCTACCTACATGAGACAGACAGAAGACGTGGCAGAAGTCTCAACA
 GATGTGCTAGCTCAATTGGTCAGAGAGGAAAGAAGCCCTCTGGGTCTGCAGAACTTGTAAAAAACCA
 GAGAACGCTAAGTCGAGTTGAACTGAAAAAGATTATGTGAAATTTTCAACAAGATGTTGAGATCCTCAT
 GGCAAGAGAGTGTTCAGCATGTTCTTGGAGACTCTAGTAGATTTTACATAACAAGTCCACAAAGATGATCTTC
 AAGATTGGTTGTTGTTCTGCTGACACAGCTGCTGAAAAAATGGGTGCTGATTTGCTTGGCTCTGTTCA
 GGCAAAAGTTCAGAAAGCCCTTGATATTACAAGAGAGTCTTTTCCAAATGATCTTCAGTTAATATCCTA
 ATGAGATTTACAGTTGACCAGACCCAAACGCCAAGCTTGAAGGTAAGGTGGCTATCCTTAAGTACATAG
 AAACCTGGCAAAGCAGATGGACCCAAGAGATTTACAAATCCAGTGAACTCGCTGGCAGTGTCTCG
 GGTGATCACTTGGACGACAGAGCCAAAAGCTCTGATGTTGGAAGGCAGCGCAGTCACTGCTGATTTCT
 TATTTGAACTCAATACCCAGAGTTTACAATGTTACTAGGAGCTTTACAAAACTTTCCAGGATGGTG
 CTACTAACTTCTTCAATCACCTCCGGAACACTGGCAATGGCACCCAGAGTTCATGGGGAGTCCCTT
 GACGAGACCAACACCTCGGTCAACAGCCAACTGGTCCAGTCTCTTACTTCTCTACCAACAGTCTCAG
 AATACGTTATCTCCAAGTGCATTTGATTACGATACAGAGAATGAATTCGAAGACATTTATAGCTCCC
 TTAGAGGCGTCACTGAGGCAATCCAGAATTTGAGTTCAGTTCAGAAAGCAAGAAGATAGAGTGAAGCAGTGA
 GAGGGACCTAAAAAGGAGGATGGTGACACAATATGTAGTGGTCTGGGATGTCAGATCCAAGAGCAGGA
 GGTGATGCTGCTGACGGCAGCCAGCCAGCTCTGGATAATAAAGCATCGTTGCTCCACTCAATGCCACTCC
 ACTCCTCTCCAGCTCCCGTACTATAACCCATATAACTACTCAGATAGCATCAGTCTTTCAACAAGTC
 TGCCCTCAAGGAAGCCATGTTTATGATGATGACGCCGACCAATTTCTGATGATCTTTCTTAGACCATTCT
 GACCTAGTTGCAGAGTTGTTGAAGGAGCTGTCTAATCATAAATGAACGTATAGAAGAAAGAAAAATTGCC
 TGTATGAACTCATGAAGCTAACCAGGAAGAATCTTTCAGTGTGGGATGAACACTTCAAAACAATATT
 ATTGTTATTGCTTGAACCCCTGGGGATAAAGAGCCTACAATCCGGGCCTTGGCATTAAAGTTTTAAAA
 GAAATCTTAAGGCATCAACCAGCAAGATTCAAAAACTATGCAGAATAACTGTGATGAAAACACTGGAAG
 CACATAAAGATCCTCACAAAGAGGTGGTGAAGTCTGCTGAGGAAGCTGCCTCCGATTGGCTACTCCAT
 TAGTCCAGAGCAGTGCATCAAAGTCTTGTCCCATCATACAACCGCTGACTACCCTATTAATCTGGCT
 GCAATCAAAATGCAAAACAAAAGTATAGAGAGAGTATCCAAGGAGACCCTAACATGCTCTTACCAGAGA
 TCATGCCGGTCTAATACAGGGTTATGATAATTCAGAAAGCAGTGTCCGAAAGCTTGTGCTTCTGCCT
 GGTGGCTGTCATGCAGTATTGGTGTGAACTAAAGCCACATCTCAGTCAACTCACTGGTGTAGTAAATG
 AAGCTGCTGAACCTTACATCAAGCGTGACAGACGGGCTCTGCAGGCGGGACCCCACTGCTGATGTT
 CTGGACAGAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001081960
- Insert Size:** 3864 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_001081960.1](#), [NP_001075429.1](#)

RefSeq Size: 5627 bp

RefSeq ORF: 3864 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 (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 3. It encodes isoform b, which has a shorter and distinct N-terminus, compared to isoform c.