

Product datasheet for MC229549

Clasp2 (NM_001286600) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Clasp2 (NM_001286600) 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: >MC229549 representing NM_001286600
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCGCGTGATTTGCAAACGGATCTGTGATTATAAAAGCTTTGATGATGAGGAATCAGTGGATGGAA
 ATAGGCCGTCGTCAGCTGCTTCAGCCTTCAAGGTTCTGCACCTAAAACACCTGGGAATCCTGTCAGCAG
 TGCAAGAAAGCCTGGCTCAGCAGGTGGCCCTAAGGTTGGAGGTCCTTCTAAAGAAGGAGGGGCTGGAGCA
 GTTGATGAAGATGACTTTATAAAAGCTTTTACAGATGTTCTTCTGTTTCAGATCTATTCTAGTCGAGAAC
 TTGAAGAGACGTTAAATAAGATCAGGAAATTTGTCAGATGACAACATGACTGGGACCAGCGTGCCAA
 TGCGCTTAAGAAAATCAGATCACTGCTTGTGCTGGAGCCGCACAGTATGATTGCTTTTTCCAGCACCTA
 CGTTTGTGGATGGAGCGCTTAAGCTGTGAGCTAAGGACCTCAGATCCCAGGTGGTCAGGGAAGCTTGCA
 TCACTGTTGCTCACCTTTCAACAGTCTTGGGAAACAAATTTGATCACGGCGCTGAAGCCATCGTCCCTAC
 GCTTTTTAATCTGTCCCAATAGTGCCAAAGTCATGGCGACCTCTGGATGTGCAGCAATCAGATTTATT
 ATTCGGCATACCCATGTACCTAGACTTATTCCTTAATAACAAGCAACTGCACATCAAAGTCAGTTCCTG
 TAAGGAGACGTTCAATTTGAATTTTAGATTTGCTGCTGCAAGAATGGCAGACTCATTCACTGGAAAGACA
 TGCAGCTGTTTTGGTTGAAACGATTAAGAAGGGCATTTCATGATGCTGATGCTGAGGCCAGAGTGGAGGCA
 AGGAAGACATACATGGGCCTTAGGAACCTTTCTGGTGAAGCTGAAACATTGTACAACCTCCCTTGAGC
 CATCATATCAGAAAAGTCTTCAAACCTACTTAAAGAGTTCTGGAAGTGTAGCTTCTCTTCCGCAGTCAGA
 CAGGTCCTCATCCAGCTCACAAGAAAGTCTCAATCGTCTTTTTCTTCTAAATGGTCAACAGCAAATCCT
 TCAACTGTAGCTGGAAGAGTATCTGTGGGAGGCAGCAAAGCCAACCCCTTCCAGGAAGCCTGCAGCGTT
 CTCGAAGTGACATTGATGTGAATGCGGCAGCTGGTGCCAAGGCTCATCATGCTGCTGGGCAGGCGGTGCG
 AAGTGGGCGCTTAGGTGCAGGTGCCCTGAACCCAGGCTCCTATGCATCACTAGAGGATACTTCTGACAAG
 ATGGATGGAACAGCATCTGATGATGGTGGGTGAGAGCCAAGCTTCTACACCGCTTGTGCTGTGGGAA
 ATGCCAAGACCGACTCTAGAGGGAGAAGCCGGACAAAAATGGTGTCTCAGTCCCAGCGTTTCATCACC
 TGACAAAAATGAAGGATCACAATCTGCTAATACATTGGTGTGCTGGCAGCCGATCTGGGTCTCCAGGAAGA
 GTTCTAACCAACAGCCCTCTACTGTGAGCTCTGGTGTCAACGAGTCTGGTCAATTCAGTTCAG



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CACAGAAGAGAAGCAAGATCCCAAGGAGCCAGGGCTGCAGCAGAGAGGCCAGCCATCTCGGCTCTCAGT
 GGCCCGGAGCAGCCGATTCTCGGCCGAGTGTGAGTCAAGGCTGTAGCCGGGAAGCCAGCAGAGAGAGC
 AGCAGGGACACGAGTCCGGTGGCTCCTTCCAGCCGCTGGGTCCGGGATATGGGATCAGCCAGTCCAGCC
 GGTTGTCGTCCTGTGTCAGTGCCATGCGAGTCTAAACACAGGCTCCGATGTGGAGGAGGAGTGTGATGA
 TGCCCTGCTCTTAGGAGACATACGGACTAAGAAAAACCTGCTCGAAGAAGGTATGAATCATATGGAATG
 CACTCAGATGATGATGCCAACGCGATGCCTCTAGTGGTGTTCAGAACGCTCCTATAGCTCTCGAAATG
 GTAGTATTCTACCTACATGAGACAGACAGAAGACGTGGCAGAAGTCTCAACAGATGTGCTAGCTCCAA
 TTGGTCAGAGAGAAAGAAGGCCTCTGGGTCTGCAGAACTTGTAAAAAACAGAGAAGCCTAAGTCGA
 GTTGAAGTAAAAAGATTATGTGAAATTTTCAAGAATGTTTGCAGATCCTCATGGCAAGGTGTTACAGCA
 GTTCTTGGAGACTCTAGTAGATTTTACACAAGTCCACAAAGATGATCTTCAAGATTGGTTGTTTGTCT
 GCTGACACAGCTGCTGAAAAAATGGGTGCTGATTTGCTTGGCTCTGTTCAAGCAAAAGTTCAGAAAGCC
 CTTGATATTACAAGAGAGTCTTTTCCAAATGATCTTCAAGTTAATATCCTAATGAGATTTACAGTTGACC
 AGACCCAAACGCCAAGCTTGAAGGTAAGGTGGCTATCCTAAGTACATAGAACTCTGGCAAAGCAGAT
 GGACCCAAAGAGATTTTACAAATCCAGTAAACTCGCCTGGCAGTGTCTCGGGTCATCACTTGGACGACA
 GAGCCCAAAGCTCTGATGTTCCGAAGGCAGCGCAGTCACTGCTGATTTCTTTATTTGAAGTCAATACCC
 CAGAGTTTACAATGTTACTAGGAGCTTTACCAAAAACCTTCCAGGATGGTGTACTAAACTTCTTACAA
 TCACCTCCGGAACACTGGCAATGGCACCCAGAGTTCATGGGGAGTCTTTGACGAGACCAACACCTCGG
 TCACCAGCCAAGTGGTCCAGTCTCTTACTTCTCTACCAACACGCTCTCAGAATACGTTATCTCCAAGTG
 CATTGATTACGATACAGAGAACATGAATCTGAAGACATTTATAGTCCCTTAGAGGCGTCACTGAGGC
 AATCCAGAATTTAGCTTCAAGACCAAGAAGATGAGTGAGCCAGTGAAGGAGGACCCAAAAAGGAG
 GATGGTGACACAATATGAGTGGTCTGGGATGTGAGTCCAAGAGCAGGAGGTGATGCTGCTGACGGCA
 GCCAGCCAGCTCTGGATAATAAAGCATCGTTGCTCCACTCAATGCCACTCCACTCCTCTCCACGCTCCCG
 TGACTATAACCCATATAACTACTCAGATAGCATCAGTCTTTCAACAAGTCTGCCCTCAAGGAAGCCATG
 TTTGATGATGACGCCGACCAATTTCTGATGATCTTCTTAGACCATTCTGACCTAGTTGCAGAGTTGT
 TGAAGGAGCTGTCTAATCATAATGAACGTATAGAAGAAAGAAAAATTGCCCTGTATGAAGTCAAGAGT
 AACCCAGGAAGAATCTTTCAGTGTGTTGGGATGAACACTTCAAAACAATATTATTGTTATTGCTTGAGACC
 CTTGGGGATAAAGAGCCTACAATCCGGGCCTTGGCATTAAAAGTTTTAAAAGAAATCTTAAGGCATCAAC
 CAGCAAGATTCAAAACTATGCAGAATAACTGTGATGAAAACTGGAAGCACATAAAGATCCTCACAA
 AGAGGTGGTGAGATCTGCTGAGGAAGCTGCCTCCGATTTGGCTACTTCCATTAGTCCAGAGCAGTGCATC
 AAAGTCTTTGTCCATCATAACAACCGCTGACTACCCTATTAATCTGGTGCAATCAAATGCAAAACAA
 AAGTGATAGAGAGATCCAAGGAGACCCTAACATGCTTACCAGAGATCATGCCGGGTCTAATACA
 GGGTTATGATAATTCAGAAAGCAGTGTCCGAAAGCTTGTGCTTCTGCCTGGTGGCTGTCCATGCAGTG
 ATTGGTGAAGTAAAGCCACATCTCAGTCAACTCACTGGTAGTAAAATGAAGTGTGAACTTTTACA
 TCAAGCGTGCACAGACGGGCTCTGCAGGCGCGGACCCACTGCTGATGTTTCTGGACAGAGT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001286600
- Insert Size:** 3915 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:	<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:	<u>NM_001286600.1</u> , <u>NP_001273529.1</u>
RefSeq Size:	5678 bp
RefSeq ORF:	3915 bp
Locus ID:	76499
UniProt ID:	<u>Q8BRT1</u>
Cytogenetics:	9 F3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) 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 e, 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.</p>