

Product datasheet for MC224630

Clasp2 (NM_001114347) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Clasp2 (NM_001114347) 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: >MC224630 representing NM_001114347
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGCCCCGCGCGCCGAGTACTTCTGCGCCCAAGTGTGCAGAAGGACGTGAGCGGCCGGCTGCAGG
 CGGGCGAGGAGCTGCTGCTCTGCCTCGGCACGCCCGGAGCCATCCCGGACCTGGAGGACGATCCGAGCCC
 CCTGGCTAAGACCGTGGACGCGCTCACCCGCTGGGTGGGCTCGAGCAACTACCGGTATCGTTGTTAGGA
 TTGGAGATTTTAAAGTGCCTTTGTGGATAGATTGTCAACACGATTCAAATCTTATGTAACAATGGTTACCA
 CAGCTTTAATAGACAGAATGGGAGATGTCAAAGACAAAGTTCGAGAAGAAGCTCAGAACCTGACACTGAA
 GCTGATGGATGAGGTGGCGCCGCATGTACATCTGGGAGCAGCTAGCTTCTGGCTTCAAGCACAAGAAC
 TTTTCGATCTCGAGAAGGCGTGTGCCTGTGTCTTATTGAGACCTTGAACATCTTTGGGACTCAACCACTGG
 TCATCAGCAAGTTGGTGGCCGATTTATGTGTCTTATTGGAGACTCTAACAGTCAGGTGAGAAATGCTGC
 ACTATCAGCTGTAGTGGAGATTTATAGACACGTAGGAGAGAAGCTGAGGATTGATTTGTGTAAGAGAGAC
 ATCCCCCTGCTAGATTAGAAAATGGTACTTGCCAAATTTGATGAAGTTCAGAATCTGGCCGATGATTT
 TGAGCGTCTGCAAAGATAAAAGCTTTGATGATGAGGAATCAGTGGATGGAATAGGCCGTCGTCAGCTGC
 TTCAGCCTTCAAGTTCCCTGCACCTAAAACACCTGGGAATCCTGTGAGCAGTGCAAGAAAAGCCTGGCTCA
 GCAGGTGGCCCTAAGTTGGAGTCTTCTAAAGAAGGAGGGGCTGGAGCAGTTGATGAAGATGACTTTA
 TAAAAGCTTTTACAGATGTTCTTCTGTTGAGTCTATTCTAGTCGAGAAGTGAAGAGACGTTAAATAA
 GATCAGGGAAATTTGTGATGACAAACATGACTGGGACCAGCGTGCCAAATGCGCTTAAGAAAATCAGA
 TCACTGCTTGTGCTGGAGCCGCACAGTATGATTGCTTTTTCCAGCACCTACGTTTGTGGATGGAGCGC
 TTAAGCTGTCAGCTAAGGACCTCAGATCCAGGTGGTCAAGGAAGCTGCATCACTGTTGCTCACCTTTC
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 ATTTTTAGATTTGCTGCTGCAAGAATGGCAGACTATTCACTGGAAGACATGCAGCTGTTTTGGTTGAA
 ACGATTAAGAAGGCATTATGATGCTGATGCTGAGGCCAGAGTGGAGGCAAGGAAGACATACATGGGCC



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TTAGGAACCACTTTCCTGGTGAAGCTGAAACATTGTACAACCTCCCTTGAGCCATCATATCAGAAAAGTCT
TCAAACCTACTTAAAGAGTTCTGGAAGTGTAGCTTCTCTCCGCAGTCAGACAGGTCCTCATCCAGCTCA
CAAGAAAGTCTCAATCGTCCTTTTTCTTCTAAATGGTCAACAGCAAAATCCTTCAACTGTAGCTGGAAGAG
TATCTGTGGGAGGCAGCAAGCCAACCCCTTCCAGGAAGCCTGCAGCGTTCTCGAAGTGACATTGATGT
GAATGCGGCAGCTGGTGCCAAGGCTCATCATGCTGCTGGCAGGCGGTGCGAAGTGGGCGCTTAGGTGCA
GGTGCCCTGAACCCAGGCTCCTATGCATCACTAGAGGATACTTCTGACAAGATGGATGGAACAGCATCTG
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AGGGAGAAGCCGGACAAAATGGTGTCTCAGTCCAGCCTGGCAGCCGATCTGGGTCTCCAGGAAGATT
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AGAAGAGAAGCAAGATCCCAAGGAGCCAGGGCTGCAGCAGAGAGGCCAGCCATCTCGGCTCTCAGTGGC
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AGGGACACGAGTCCGGTGCCTCTCCAGCCGCTGGTCCGGGATATGGGATCAGCCAGTCCAGCCGGT
TGTCGCTCTGTGAGTCCATGCGAGTCTAACACAGGCTCCGATGTGGAGGAGGCAGTGTGATGC
CCTGCTCTTAGGAGACATACGGACTAAGAAAAACCTGCTCGAAGAAGGTATGAATCATATGGAATGCAC
TCAGATGATGATGCCAACAGCGATGCCTCTAGTCCGTTTCCAGACGCTCTATAGCTCTCGAAATGGTA
GTATTCCTACCTACATGAGACAGACAGAAGACGTGGCAGAAGTCTCAACAGATGTGCTAGCTCCAATTG
GTCAGAGAGGAAAGAAGGCTCTTGGGTCTGCAGAACTTGTTAAAAAACAGAGAACGCTAAGTCCGAGTT
GAACTGAAAAGATTATGTGAAATTTTACAAGAATGTTTGCGAGATCCTCATGGCAAGAGAGTGTTCAGCA
TGTTCTTGAGACTCTAGTAGATTTTACAAGTCCACAAAGATGATCTTCAAGATTGGTTGTTGTTCT
GCTGACACAGCTGCTGAAAAAATGGGTGCTGATTTGCTTGGCTCTGTTCCAGGCAAAAGTTCAGAAAAGCC
CTTGATATTACAAGAGAGTCTTTTCAAATGATCTTCAAGTTAATATCCTAATGAGATTTACAGTTGACC
AGCCCAAAGCCTTGAAGGTAAGGTGGCTATCCTAAGTACATAGAACTCTGGCAAAGCAGAT
GGACCCAAAGAGATTTTACAAATCCAGTAAACTCGCCTGCAGTGTCTCGGGTCACTGGCAGCAGACA
GAGCCCAAAGCTCTGATGTTCCGGAAGGACGCGCAGTCAAGTCTGATTTCTTTATTTGAACCTCAATACCC
CAGAGTTTACAATGTTACTAGGAGCTTTACCAAAAACCTTCCAGGATGGTGTACTAAAATCTTTCACAA
TCACCTCCGGAACACTGGCAATGGCACCCAGAGTCCATGGGGAGTCTTTGACGAGACCAACACCTCGG
TCACCAGCCAAGTCCAGTCTCTTACTTCTCTACCAACACGCTCAGAAATACGTTATCTCCAAGTG
CATTTGATTACGATACAGAGAACATGAATCTGAAGACATTTATAGTCCCTTAGAGGCGTCACTGAGGC
AATCCAGAATTTAGCTTCCAGAGCCAAGAAGATATGAGTGAAGCAGTGAAGGAGGACCCAAAAAGGAG
GATGGTGACACAATATGATGGTCTGGGATGTCAGATCCAAGAGCAGGAGGTGATGCTGCTGACGGCA
GCCAGCCAGCTCTGGATAATAAAGCATCGTTGCTCCACTCAATGCCACTCCACTCTCCACGCTCCCG
TACTATAACCCATATACTACTCAGATAGCATAGTCCCTTCAACAAGTCTGCCCTCAAGGAAGCCATG
TTTGATGATGACCCGACCAATTTCTGATGATCTTCTCTTAGACCATTCTGACCTAGTTGCAGAGTTGT
TGAAGGAGCTGTCTAATCATAATGAACGTATAGAAGAAAGAAAAATGGCCTGTATGAACTCATGAAGCT
AACCCAGGAAGAATCTTTCAGTGTTTGGGATGAACACTTCAAAAACAATATTATTGTTATTGCTTGAGACC
CTTGGGGATAAAGAGCCTACAATCCGGGCTTGGCATTAAAAGTTTTAAAAGAAATCTTAAAGGCATCAAC
CAGCAAGATTCAAAACATGCAGAACTAACTGTATGAAAACACTGGAAGCACATAAAGATCCTCACAA
AAGTGTCTTGTCCATCATACAAACCGCTGACTACCCTATTAATCTGGCTGCAATCAAAATGCAAACAA
AAGTGATAGAGAGAGATCCAAGGAGACCCTAACATGCTCTTACCAGAGATCATGCCGGGTCTAATACA
GGTTATGATAATTCAGAAAGCAGTGTCCGAAAAGCTTGTGCTTCTGCCTGGTGGCTGTCCATGCAGTG
ATTGGTGTGAACTAAAGCCACATCTCAGTCAACTCACTGGTAGTAAAATGAAGCTGCTGAACTTTTACA
TCAAGCGTGCACAGACGGGCTCTGCAGGCGCGACCCACTGCTGATGTTTCTGGACAGAGT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001114347
Insert Size: 4545 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:	<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_001114347.1</u> , <u>NP_001107819.1</u>
RefSeq Size:	6369 bp
RefSeq ORF:	4545 bp
Locus ID:	76499
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 (3) represents the longest transcript and encodes the longest isoform (c). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>