

## Product datasheet for **MC224654**

### Clasp1 (NM\_001081276) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Clasp1 (NM\_001081276) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Clasp1  
**Synonyms:** 1700030C23Rik; 5730583A19Rik; B130045P17Rik; mKIAA0622  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224654 representing NM\_001081276  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAACCGAGAATGGAGTCCTGTCTGGCCAGGTGCTGCAGAAGGATGTGGAAAGCGGCTGCAGTTG  
 GCCAGAACTCATAGACTATTTCTCAGACAGACAGAAGTCTGCTGACCTTGAGCAGCAGCAGACCCTGTT  
 GGATAAGCTTGTGGATGGACTCGCTACCTTTGGGTGAAGTCTAGCAATTACAAGTGGTTCTCTTGGGC  
 ATGGACATCCTGTCGGCACTGGTACTAGGCTGCAGGACCGGTTCAAGGCGCAAATCGGCACAGTGTTC  
 CAAGTCTAATAGACAGACTGGGAGATGCTAAAGACTCCGTGAGGGAGCAAGACCAAACCTGCTGCTAAA  
 GATCATGGATCAAGCTGCTAATCCCCAGTATGTGTGGACAGAATGCTCGGAGGCTTCAAACACAAGAAC  
 TTCCGCACAAGAGAGGGCATCTGCCTCTGCCTTATTGCAACACTCAATGCCTCTGGGGCCAGACTCTAA  
 CACTAAGCAAGATTGTGCCACATATATGTAACCTACTGGGAGATCCCAACAGCCAGGTTTCGAGACGCAGC  
 AATAAACAGTCTGGTGGAGATTTATAGACATGTAGGTGAACGTGTGAGGGCAGACCTCAGTAAGAAAGGA  
 CTGCCACAGTCCCGTTGAATGTCATTTTTACAAAATTTGATGAAGTCCAAAAGTCTGGAAATATGATAC  
 AGTCTGCAAATGAAAAAATTTGATGATGAAGATTCTGTGGATGGCAACAGGCCCTTCTTCTGCCAGCTC  
 CTCATCATCCAAGCCCCATCAAGTTCCCGGAGGAATGTTAACCTGGGGACCACCCGTAGGCTCATGTCA  
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 CAGAGAAATCCTGTCAGATGACAAGCATGACTGGGAGCAGAGAGTAAATGCTCTAAAAAAGATTAGATCG  
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 AACTCTCTGCTAAGGACCTGCGGTCTCAGGTAGTGCAGGAAAGCTTGTATCACATTGGGGCATCTGTCATC  
 AGTTCTGGGAAATAAGTTTATGATCATGGAGCTGAAGCCATTATGCCAACTATCTTTAATTTAATCCCGAAC  
 AGTGCCAAAATTATGGCTACTTCTGGTGTGTAGCTGTTAGGCTAATCATTTCGGCACACTCACATCCCTC  
 GGCTGATCCCTGTCATAACCAGCAACTGTACCTTAAGTCTGTCGCCGTGAGAAGGCGCTGTTTTGAATT  
 TTTAGATTTGCTTTTACAAGAATGGCAGACACATTCACCTAGAAAGACATATATCAGTATTAGCTGAAACA  
 ATAAAGAAAGGAATACACGACGCTGATTCTGAAGCGAGAATAGAAGCCAGGAAGTCTACTGGGTTTCC



ACAGTCACTTCAGCCGAGAAGCAGAACACCTGTACCACACTTTGGAGTCCTCGTATCAGAAGGCCCTACA  
 GTCCCCTTGAAGAACTCGGACAGCATCGTGTCTCTGCCCCAGTCAGACCGATCCTCTTCCAGCTCTCAA  
 GAGAGTCTCAACCGGCCACTTTAGCCAAAAGAAGTCCCAGTGGCAGCACTGCATCCAGAGGCTCTACAG  
 TTAGTACCAAATCTGTGTGACGACAGGATCTCTCCAGCGATCTCGAAGTGATATTGATGTGAACGCAGC  
 AGCCAGTGCCAAATCCAAAGTCTCTCATCTCAGGATCCCCGCCTTCAGCTCTGCAGCAGCACTGCC  
 CCAGGATCCTATGCGTCCCTAGGTGGATCCGCACGAGACGGCAGAGCTCGGGGAGCACCACCAATGTCC  
 CCTCCACACCCTCCGACAGTCCGGGCGCAGTCCGCGCAAAGTGGTTTTCACAGTCTCAGCGATCCAGATC  
 TGCTAACCTGCTGGTGCTGGCAGCCGGTCAAGTTCCTCCCTGGGAAGCTTTTGGGAAGTGGACTTGCCTGGG  
 GTTTCTCCAGAGGCCACCCTAACACCATCCTCAGAAAAACGGAGCAAGATCCCCAGGAGTCAAGGAT  
 GTAGCCGAGAAAACAAGTCTAACCGGATTGGATTAGCACGGAGCAGCCGTATCCCCGACCCAGCATGAG  
 TCAGGGGTGCAGCCGATACCAGCCGTGAGAGCAGCCGATACAAGCCCTGCTCGGGCTTACACCA  
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 CCAGCACTGACCTGGAAGCAGCAGTGGTGCAGCTCTGAAGAAGCCTGTGAGAAGGAGATACGAGCCCTA  
 TGGAAATGACTCTGATGATGATGCAACAGTGTGCTCCAGCGTGTGCTCTGAGCGCTCATATGGCTCC  
 AGGAATGGTGGCATTCCCATTATCTGCGCAGACTGAAGATGTAGCAGAGGTTCTCAACCATTGTCCA  
 GTTCCAACCTGGTCAAGCGAAAGAGGGCTCCTGGGCCTGCAGAACTTACTGAAGAGCCAAAGAACA  
 GAGTCCAGTAGAATTGAAGAGACTGTGTGAGATTTTACCCTGAATGTTTCCGACCCCTCACAGCAAGAGA  
 GTTTTCAGTATGTTTTGGAGACCTCGTGGATTTTATAATCATTATAAGGATGACTTGAAGACTGGC  
 TCTTCGCTCTTCTCACAACTACTTAAGAAAATGGGAGCAGACTTACTTGGATCTGTGCAAGCAAAAGT  
 TCAGAAGGCTCTCGATGTACCAGGGATTCTTTCCATTTGATCAACAATTTAACATTTTGTGAGATTT  
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 CCAGACAGATGGACCCACAGATTTTGTAAATCCAGCGAAACAAGACTAGCTGTTTCTAGGATCATAAC  
 ATGGACTACAGAACCAAGAGTTCCAGACTGAGAAAGGCAGCACAAATTTGCTCATCTCTGTGTTGAA  
 CTGAACACGCCTGAATTTACCATGTTACTTGGTGCCTTGCCAAAAACATTCAGGATGGTCCACCAAAAC  
 TCTGCATAAACCTCAAGAACTCCAGTAAACCCGGTGTGGGATCTCCAAGCAATACAATTGGCCGGAC  
 ACCTTCCCACCACCCAGCAGCAGGACCAGCCCTGACCTCACCCACCAACTGTTCCCATGGGGGACTA  
 TCTCCAAGTGGTGTGGGGTGGAGTGCCGACGGGCTATCGAAGCCCCACCTCCCTTTTCTCAGCCTA  
 ACTCCATCCCACCGCTCCCTCCACAAGACTCTCAGGCGCTTACTCTCCAGCATGCTGGACTATGA  
 TACAGAGAACCTGAACTCTGAAGAAATCTACAGCTCTTTCGTTGGAGTTACAGAAGCCATTGAAAAGTTC  
 AGCTTCCGAAGCCAGGAGATCTAAATGAGCCAATCAAACGAGATGGCAAGAAGGATTGTGATATCGTGT  
 CCCGAGATGGGGGAGCAGCTCACCTGCCACCGAGGGCCGGGAGGTAGTGAAGATAGAAGGAGGCAGGAT  
 GGCTTTGGACAACAAGACCTCCCTGCTCAACACGACGCTCCACGTGCCTTTCCGGGGCCAAAGACCGG  
 GAATATAACCCGTATCCCTACTCCGACACCATCAACACCTATGACAAGACGGCTCTGAAGGAAGCAGTGT  
 TTGACGATGACATGGAGCAGCTCCGAGATGTGCCATTGACCACTCAGACCTGGTGGCTGACTTGTGAA  
 AGAGCTATCTAACCAACGAGCGTGTGGAGGAGCGGAAGGGCGCACTGCTGGAGTTGCTCAAGATCACC  
 AGGGAGGACAGCTGGGCGTGTGGGAGGAGCACTTCAAGACCATCCTGCTGCTGCTGCTGGAACCTCTCG  
 GAGACAAGACCATTCATTTCGAGCTCTGGCACTGAGAGTTTTACGGGAAATTCTGAGAAACCAGCCAGC  
 AAGATTTAAAACTATGCAGAACTGACGATCATGAAGACTCTGGAAGCCCAAAAGACTCCACAAAGGAG  
 GTGGTGAAGCGGCCGAGGAAGTGCATCCAGCTAGCCAGCTCAATCCACCCAGAGCAGTGCATCAAAG  
 TGCTGTGTCCTCAATCATCCAGACAGCCGACTACCCATCAACCTGGCTGCTATCAAGATGCAGACAAAGGT  
 GGTGGAGAGGATACCAAGGAGTCTTGTGTCAGCTCCTCGTGCAGATCATCCCCGGCTGCTGCAGGGT  
 TACGACAACACCGAGAGCAGTGTACGAAAGCCAGTGTGTTTTGCTTAGTGGCAATCTATCCGTAATCG  
 GAGAAGATCTGAAACCTCACCTCGCACAGCTCACGGGGAGCAAGATGAAGCTGCTGAACTTATATATAAA  
 GAGGGCCAGACTACCAACAGCAACAGCAGCTCTTCTCTGATGTGTCCACACAGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001081276  
**Insert Size:** 4611 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001081276.1</a></u> , <u><a href="#">NP_001074745.1</a></u>
<b>RefSeq Size:</b>	7827 bp
<b>RefSeq ORF:</b>	4611 bp
<b>Locus ID:</b>	76707
<b>Cytogenetics:</b>	1 E2.3
<b>Gene Summary:</b>	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 (By similarity).[UniProtKB/Swiss-Prot Function]