

## Product datasheet for **MC224518**

### Clasp1 (NM\_177548) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Clasp1 (NM\_177548) 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:** >MC224518 representing NM\_177548  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAACCGAGAATGGAGTCCTGTCTGGCCAGGTGCTGCAGAAGGATGTGGAAAGCGGCTGCAGGTTG  
GCCAGAACTCATAGACTATTTCTCAGACAGACAGAAGTCTGCTGACCTTGAGCAGCAGCAGACCCTGTT  
GGATAAGCTTGTGGATGGACTCGCTACCTTTGGGTGAAGTCTAGCAATTACAAGTGGTTCTCTTGGGC  
ATGGACATCCTGTCCGACTGGTACTAGGCTGCAGGACCGTTCAAGGCGCAAATCGGCACAGTGTTC  
CAAGTCTAATAGACAGACTGGGAGATGCTAAAGACTCCGTGAGGGAGCAAGACCAAACCTGCTGCTAAA  
GATCATGGATCAAGCTGCTAATCCCAAGTATGTGTGGACAGAATGCTCGGAGGCTTCAAACACAAGAAC  
TTCCGCACAAGAGAGGGCATCTGCCTCTGCCTTATTGCAACACTCAATGCCTCTGGGGCCAGACTCTAA  
CACTAAGCAAGATTGTGCCACATATATGTAACCTACTGGGAGATCCCAACAGCCAGGTTCCGAGACGCAGC  
AATAAACAGTCTGGTGGAGATTTATAGACATGTAGGTGAACGTGTGAGGGCAGACCTCAGTAAGAAAGGA  
CTGCCACAGTCCCGTTGAATGTCATTTTTACAAAATTTGATGAAGTCCAAAAGTCTGGAATATGATAC  
AGTCTGCAAATGAAAAAATTTGATGATGAAGATTCTGTGGATGGCAACAGGCCCTTCTTCTGCCAGCTC  
CTCATCATCCAAGCCCCATCAAGTTCCCGGAGGAATGTTAACCTGGGGACCACCGTAGGCTCATGTCA  
TCCAGTCTTGGATCTAAGTCTTCAAGCTGCAAAAAGGCGCTGGTGTGTGGATGAAGAGGATTTTATTA  
AAGCCTTTGATGATGTACCTGTAGTGCAGATTTACTCCAGCCGAGACCTCGAGGAATCCATAAACAAAAAT  
CAGAGAAATCCTGTCAGATGACAAGCATGACTGGGAGCAGAGAGTAAATGCTCTAAAAAAGATTAGATCG  
TTACTCTTGGCTGGGCTGCTGAGTACGATAACTTCTTTCAACACTTGCCTCTTCTGGACGGGGCCTTTA  
AACTCTCTGCTAAGGACCTGCGGTCTCAGGTAGTGCAGGAAAGCTTGTATCACATTGGGGCATCTGTCATC  
AGTTCTGGGAAATAAGTTTGTATCATGGAGCTGAAGCCATTATGCCAACTATCTTTAATTTAATCCCGAAC  
AGTGCCAAAATTATGGCTACTTCTGGTGTGTAGCTGTTAGGCTAATCATTCCGGCACACTCACATCCCTC  
GGCTGATCCCTGTCATAACCAGCAACTGTACCTTAAGTCTGTCGCCGTGAGAAGGCGCTGTTTTGAATT  
TTTAGATTTGCTTTTACAAGAATGGCAGACACATTCACTAGAAAGACATATATCAGTATTAGCTGAAACA  
ATAAAGAAAGGAATACACGACGCTGATTCTGAAGCGAGAATAGAAGCCAGGAAGTCTACTGGGTTTCC



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ACAGTCACTTCAGCCGAGAAGCAGAACACCTGTACCACACTTTGGAGTCCTCGTATCAGAAGGCCCTACA  
 GTCCCACTTGAAGAACTCGGACAGCATCGTGTCTCTGCCCACTCAGACCGATCCTCTCCAGCTCTCAA  
 GAGAGTCTCAACCGGCCACTTTAGCCAAAAGAAGTCCCACTGGCAGCACTGCATCCAGAGGCTCTACAG  
 TTAGTACCAAATCTGTGTCGACGACAGGATCTCTCCAGCGATCTCGAAGTGATATTGATGTGAACGCAGC  
 AGCCAGTGCCAAATCCAAAGTCTCTCATCTCAGGATCCCCGCCTTCAGCTCTGCAGCAGCACTGCC  
 CCAGGATCCTATGCGTCCCTAGAGTCCAGACACATGAGGGAAGACTTGGAGTACGTAGGCCTGGATGCAG  
 CTCGGATCCGCACGAGACGGCAGAGCTCGGGGAGCACCACCAATGTCGCCCTCCACACCTCCGACCTCG  
 GGCCCGCAGTCGCGCCAAAGTGGTTTACAGTCTCAGCCTGGCAGCCGGTCAAGTTCCTCCCTGGGAAGCTT  
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 GCAGCAGTGGCTGACGCTCTGAAGAAGCCTGTGAGAAGGAGATACGAGCCCTATGGAATGTACTCTGATG  
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 CCATTATCTGCGCAGACTGAAGATGTAGCAGAGGTTCTCAACCATTGTGCCAGTTCCAAGTGGTCAGAA  
 CGGAAAGAGGGGCTCCTGGGCTGCAGAACTTACTGAAGGCCAAAGAACACTGAGTCGAGTAGAATTGA  
 AGAGACTGTGAGATTTTACCCGAATGTTTGGCCAGCCTCACAGCAAGAGAGTTCAGTATGTTTTT  
 GGAGACCTCGTGGATTTTATAATCATTATAAGGATGACTTGCAAGACTGGCTCTTCGCTTCTCACA  
 CAACTACTTAAGAAAATGGGAGCAGACTTACTTGGATCTGTGCAAGCAAAAGTTCAGAAGGCTCTCGATG  
 TCACCAGGGATTCCTTTCCATTTGATCAACAATTAACATTTTGTGAGATTTATTGTTGGATCAGACTCA  
 AACTCCAAACCTCAAGGTCAAAGTAGCAATCCTGAAATACATCGAATCTCTAGCCAGACAGATGGACCCC  
 ACAGATTTTGTAAATCCAGCGAAAACAAGACTAGCTGTTTCTAGGATCATAACATGGACTACAGAACCAA  
 AGAGTTCAGACGTGAGAAAGGCAGCACAATTTGCTCATCTCTGTTTGAAGTGAACACGCCTGAATT  
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 AAGAACTCCAGTAACACCGGTGTGGATCTCCAAGCAATACAATTGGCCGGACACCTTCCCGCCACCCCA  
 GCAGCAGGACCAGCCCCCTGACCTCACCCACCACTGTTCCCATGGGGACTATCTCCAAGCATGCTGGA  
 CTATGATACAGAGAACCTGAACTCTGAAGAAATCTACAGCTCTTTGCGTGGAGTTACAGAAGCCATTGAA  
 AAGTTCAGCTTCCGAAGCCAGGAGGATCTAAATGAGCCAATCAAACGAGATGGCAAGAAGGATTGTGATA  
 TCGTGTCCCGAGATGGGGGAGCAGCCTCACCTGCCACCGAGGGCCGGGGAGGTAGTGAGATAGAAGGAGG  
 CAGGATGGCTTTGGACAACAAGACCTCCCTGCTCAACACGCAGCCTCCACGTGCCTTTCCGGGGCCAAGA  
 GCACGGGAATATAACCCGTATCCCTACTCCGACACCATCAACACCTATGACAAGACGGCTCTGAAGGAAG  
 CAGTGTGTTGACGATGACATGGAGCAGCTCCGAGATGTGCCATTGACCACTCAGACCTGGTGGCTGACTT  
 GCTGAAAGAGCTATCTAACCCACAACGAGCGTGTGGAGGAGCGGAAGGGCGCACTGCTGGAGTTGCTCAAG  
 ATCACCAGGGAGGACAGCCTGGGCGTGTGGGAGGAGCACTTCAAGACCATCCTGTGCTGCTGCTGGAAA  
 CTCTCGGAGACAAAGACCATTCCATTGAGCTCTGGCACTGAGAGTTTTACGGGAAATCTGAGAAACCA  
 GCCAGCAAGATTCAAAAACTATGCAGAACTGACGATCATGAAGACTCTGGAAGCCCAAAAGACTCCAC  
 AAGGAGGTGGTGAGAGCGGCCGAGGAAGCTGCATCCACGCTAGCCAGCTCAATCCACCCAGAGCAGTGCA  
 TCAAAGTGTGTCCAATCATCCAGACAGCCGACTACCCCATCAACCTGGCTGCTATCAAGATGCAGAC  
 AAAGGTGGTGGAGAGGATCACCAGGAGTCTTGTGCTGACGCTCCTCGTGCACATCATCCCGCCTGTG  
 CAGGGTTACGACAACCCGAGAGCAGTGTACGGAAAGCCAGTGTGTTTTGCTTAGTGGCAATCTATTCCG  
 TAATCGGAGAAGATCTGAAACCTCACCTCGCACAGCTCACGGGGAGCAAGATGAAGCTGCTGAACTTATA  
 TATAAAGAGGGCCAGACTACCAACAGCAACAGCAGCTTTCCTCTGATGTGTCCACACACAGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_177548  
**Insert Size:** 4407 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_177548.2</a></u> , <u><a href="#">NP_808216.2</a></u>
<b>RefSeq Size:</b>	7623 bp
<b>RefSeq ORF:</b>	4407 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]