

## Product datasheet for **MC229594**

### Clasp1 (NM\_001293301) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Clasp1 (NM_001293301) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clasp1
Synonyms:	1700030C23Rik; 5730583A19Rik; B130045P17Rik; CLASP1alpha
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229594 representing NM_001293301 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAACCGAGAATGGAGTCCTGTCTGGCCAGGTGCTGCAGAAGGATGTGGAAAGCGGCTGCAGTTG  
GCCAGAACTCATAGACTATTTCTCAGACAGACAGAAGTCTGCTGACCTTGAGCAGCAGCAGACCCTGTT  
GGATAAGCTTGTGGATGGACTCGCTACCTTTGGGTGAAGTCTAGCAATTACAAGTGGTCTCTTTGGGC  
ATGGACATCCTGTCGGCACTGGTACTAGGCTGCAGGACCGTTCAAGGCGCAAATCGGCACAGTGTTC  
CAAGTCTAATAGACAGACTGGGAGATGCTAAAGACTCCGTGAGGGAGCAAGACCAAACCTGCTGCTAAA  
GATCATGGATCAAGCTGCTAATCCCCAGTATGTGTGGACAGAATGCTCGGAGGCTTCAAACACAAGAAC  
TTCCGCACAAGAGAGGGCATCTGCCTCTGCCTTATTGCAACACTCAATGCCTCTGGGGCCAGACTCTAA  
CACTAAGCAAGATTGTGCCACATATATGTAACCTACTGGGAGATCCCAACAGCCAGGTTCCGAGACGCAGC  
AATAAACAGTCTGGTGGAGATTTATAGACATGTAGGTGAACGTGTGAGGGCAGACCTCAGTAAGAAAGGA  
CTGCCACAGTCCCGTTGAATGTCATTTTTACAAAATTTGATGAAGTCCAAAAGTCTGGAATATGATAC  
AGTCTGCAAATGAAAAAATTTGATGATGAAGATTCTGTGGATGGCAACAGGCCCTTCTTCTGCCAGCTC  
CTCATCATCCAAGCCCCATCAAGTTCCCGGAGGAATGTTAACCTGGGGACCACCCGTAGGCTCATGTCA  
TCCAGTCTTGATCTAAGTCTTCAAGCTGCAAAAAGAGGCGCTGGTGTGTGGATGAAGAGGATTTTATTA  
AAGCCTTTGATGATGTACCTGTAGTGCAGATTTACTCCAGCCGAGACCTCGAGGAATCCATAAACAAAAAT  
CAGAGAAATCCTGTCAGATGACAAGCATGACTGGGAGCAGAGAGTAAATGCTCTAAAAAAGATTAGATCG  
TTACTCTTGGCTGGGCTGCTGAGTACGATAAATCTTTCAACACTTGCCTCTTCTGGACGGGGCCTTTA  
AACTCTCTGCTAAGGACCTGCGGTCTCAGGTAGTGCAGGAAAGCTTGTATCACATTGGGGCATCTGTCATC  
AGTTCTGGGAAATAAGTTTGTATCATGGAGCTGAAGCCATTATGCCAACTATCTTTAATTTAATCCCGAAC  
AGTGCCAAAATTATGGCTACTTCTGGTGTGTAGCTGTTAGGCTAATCATTCCGGCACACTCACATCCCTC  
GGCTGATCCCTGTCATAACCAGCAACTGTACCTTAAGTCTGTCGCCGTGAGAAGGCGCTGTTTTGAATT  
TTTAGATTTGCTTTTACAAGAATGGCAGACACATTCACTAGAAAGACATATATCAGTATTAGCTGAAACA  
ATAAAGAAAGGAATACACGACGCTGATTCTGAAGCGAGAATAGAAGCCAGGAAGTCTACTGGGTTTCC



[View online »](#)

ACAGTCACTTCAGCCGAGAAGCAGAACACCTGTACCACACTTTGGAGTCCTCGTATCAGAAGGCCCTACA  
 GTCCCCTTGAAGAACTCGGACAGCATCGTGTCTCTGCCCCAGTCAGACCGATCCTCTTCCAGCTCTCAA  
 GAGAGTCTCAACCGGCCACTTTTCAGCCAAAAGAAGTCCCCTGGCAGCACTGCATCCAGAGGCTCTACAG  
 TTAGTACCAAATCTGTGTGACGACAGGATCTCTCCAGCGATCTCGAAGTGATATTGATGTGAACGCAGC  
 AGCCAGTGCCAAATCCAAAGTCTCTCATCTCAGGATCCCCGCCTTCAGCTCTGCAGCAGCACTGCC  
 CCAGATCCTATGCGTCCCTAGGTGGATCCGCACGAGACGGCAGAGCTCGGGGAGCACCACCAATGTCCG  
 CCTCCACACCCTCCGACAGTCGGGGCCGAGTCGCGCCAAAGTGGTTTTCACAGTCTCAGCCTGGCAGCCG  
 GTCAAGTTCCTGGGAAGCTTTTGGGAAGTGGACTTGCTGGGGTTTCTCCAGAGGCCACCGGTAACA  
 CCATCCTCAGAAAAACGGAGCAAGATCCCCAGGAGTCAGGGATGTAGCCGAGAAACAAGTCTAACCGGA  
 TTGGATTAGATCGGTTTGGGCTGGGCCAGTCAGGACGAATCCCTGGTTCTGTGAACGCCATGAGAGTCTT  
 GAGTACCAGCACTGACCTGGAAGCAGCAGTGGCTGACGCTCTGAAGAAGCCTGTGAGAAGGAGATACGAG  
 CCCTATGGAATGTACTCTGATGATGATGCCAACAGTGTGCTCCAGCGTGTGCTCTGAGCGCTCATATG  
 GCTCCAGGAATGGTGGCATTCCCATTATCTGCGGCAGACTGAAGATGTAGCAGAGGTTCTCAACCATTG  
 TGCCAGTTCAACTGGTCAGAACGGAAAGAGGGGCTCCTGGGCTGCAGAACTTACTGAAGGCCAAAGA  
 AACTGAGTGCAGTAGAATTGAAGAGACTGTGTGAGATTTTACCCTGAATGTTTCCGACCCCTCACAGCA  
 AGAGAGTTTTAGTATGTTTTGGAGACCTCGTGGATTTTATAATCATTATAAGGATGACTTGCAGA  
 CTGGCTCTTCGTCCTTCTCACACAACACTTAAAGAAAATGGGAGCAGACTTACTTGGATCTGTGCAAGCA  
 AAAGTTGAGAAGGCTCTCGATGTACCAGGGATTCTTTCCATTTGATCAACAATTTAACATTTTGTGATG  
 GATTTATTGTGGATCAGACTCAAACCTCAAACCTCAAGGTCAAAGTAGCAATCCTGAAATACATCGAATC  
 TTAGCCAGACAGATGGACCCACAGATTTTGTAAATCCAGCGAAACAAGACTAGCTGTTTCTAGGATC  
 ATAACATGGACTACAGAACCAAGAGTTTCAGACGTGAGAAAGGCAGCACAATTTGTGCTCATCTCTGT  
 TTGAAGTGAACACGCCTGAATTTACCATGTTACTTGGTGCCTTGCCAAAAACATTCCAGGATGGTGGCC  
 CAAACTCCTGCATAACCACCTCAAGAATCCAGTAAACCCGGTGTGGGATCTCAAAGCAATACAATTGGC  
 CGGACACCTTCCCGCCACCCAGCAGCAGGACCCGCCCTGACCTCACCCACCAACTGTTCCCATGGGG  
 GACTATCTCCAAGCATGCTGGACTATGATACAGAGAACCTGAACTCTGAAGAAATCTACAGCTCTTTCGCG  
 TGGAGTTACAGAAGCCATTGAAAAGTTCAGCTTCCGAAGCCAGGAGGATCTAAATGAGCCAAATCAAACGA  
 GATGGCAAGAAGGATTGTGATATCGTGTCCCGAGATGGGGGAGCAGCCTCACCTGCCACCGAGGGCCGGG  
 GAGGTAGTGAGATAGAAGGAGGCAGGATGGCTTTGGACAACAAGACCTCCCTGCTCAACACGCAGCCTCC  
 ACGTGCCTTCCGGGGCAAGAGCACGGGAATATAACCCGTATCCCTACTCCGACACCATCAACACCTAT  
 GACAAGACGGCTCTGAAGGAAGCAGTGTGTTGACGATGACATGGAGCAGCTCCGAGATGTGCCATTGACC  
 ACTCAGACCTGGTGGCTGACTTGTGAAAGAGCTATCTAACCACAACGAGCGTGTGGAGGAGCGGAAGGG  
 CGCACTGCTGGAGTTGCTCAAGATCACCGGGAGGACAGCCTGGGCGTGTGGGAGGAGCACTTCAAGACC  
 ATCCTGCTGCTGCTGCTGAAAACCTCCTGGAGACAAAGACCATTCCATTGAGCTCTGGCACTGAGAGTTT  
 TACGGGAAATTTGAGAAACCAGCCAGCAAGATTCAAAAATATGCAGAACTGACGATCATGAAGACTCT  
 GGAAGCCACAAAGACTCCCACAAGGAGGTGGTGGAGAGCGCCGAGGAAGCTGCATCCACGCTAGCCAGC  
 TCAATCCACCCAGAGCAGTGCATCAAAGTGTGTCCAATCATCCAGACAGCCGACTACCCCATCAACC  
 TGGCTGCTATCAAGATGCAGACAAGGTGGTGGAGAGGATCACCAAGGAGTCTTGTGCTGACGCTCCTCGT  
 CGACATCATCCCCGCCCTGCTGCAGGGTTACGACAACACCGAGAGCAGTGTACGGAAAGCCAGTGTGTTT  
 TGCTTAGTGGCAATCTATTCCGTAATCGGAGAAGATCTGAAACCTCACCTCGCACAGCTCACGGGGAGCA  
 AGATGAAGCTGCTGAACTTATATAAAAGAGGGCCAGACTACCAACAGCAACAGCAGCTTCTCCTCTGA  
 TGTGTCCACACAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001293301  
**Insert Size:** 4359 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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_001293301.1</a></u> , <u><a href="#">NP_001280230.1</a></u>
<b>RefSeq Size:</b>	7651 bp
<b>RefSeq ORF:</b>	4359 bp
<b>Locus ID:</b>	76707
<b>UniProt ID:</b>	<u><a href="#">Q80TV8</a></u>
<b>Cytogenetics:</b>	1 E2.3
<b>Gene Summary:</b>	<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 (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (5) lacks five exons in the central coding region, but maintains the reading frame, compared to variant 4. The encoded isoform (5) is shorter, compared to isoform 4.</p>