

Product datasheet for **MC229628**

Clasp1 (NM_001293300) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Clasp1 (NM_001293300) 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: >MC229628 representing NM_001293300
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAACCGAGAATGGAGTCCTGTCTGGCCAGGTGCTGCAGAAGGATGTGGAAAGCGGCTGCAGGTTG
 GCCAGGAACCTAGACTATTTCTCAGACAGACAGAAGTCTGCTGACCTTGAGCAGCAGCAGACCCTGTT
 GGATAAGCTTGTGGATGGACTCGCTACCTTTGGGTGAAGTCTAGCAATTACAAGTGGTCTCTTTGGGC
 ATGGACATCCTGTCGGCACTGGTACTAGGCTGCAGGACCGGTTCAAGGCGCAAATCGGCACAGTGTTC
 CAAGTCTAATAGACAGACTGGGAGATGCTAAAGACTCCGTGAGGGAGCAAGACCAAACCTGCTGCTAAA
 GATCATGGATCAAGCTGCTAATCCCCAGTATGTGTGGACAGAATGCTCGGAGGCTTCAAACACAAGAAC
 TTCCGCACAAGAGAGGGCATCTGCCTCTGCCTTATTGCAACACTCAATGCCTCTGGGGCCAGACTCTAA
 CACTAAGCAAGATTGTGCCACATATATGTAACCTACTGGGAGATCCCAACAGCCAGGTTCCGAGACGCAGC
 AATAAACAGTCTGGTGGAGATTTATAGACATGTAGGTGAACGTGTGAGGGCAGACCTCAGTAAGAAAGGA
 CTGCCACAGTCCCGTTGAATGTCATTTTTACAAAATTTGATGAAGTCCAAAAGTCTGGAATATGATAC
 AGTCTGCAAATGAAAAAATTTGATGATGAAGATTCTGTGGATGGCAACAGGCCCTTCTTCTGCCAGCTC
 CTCATCATCCAAGCCCCATCAAGTTCCCGGAGGAATGTTAACCTGGGGACCACCCGTAGGCTCATGTCA
 TCCAGTCTTGGATCTAAGTCTTCAAGCTGCAAAAAGAAGGCGCTGGTGTGTGGATGAAGAGGATTTTATTA
 AAGCCTTTGATGATGTACCTGTAGTGCAGATTTACTCCAGCCGAGACCTCGAGGAATCCATAAACAAAAAT
 CAGAGAAATCCTGTCAGATGACAAGCATGACTGGGAGCAGAGAGTAAATGCTCTAAAAAAGATTAGATCG
 TTAAGTCTTGGCTGGGCTGCTGAGTACGATAAATCTTTCAACACTTGCCTTCTTGACGGGGCCTTTA
 AACTCTCTGCTAAGGACCTGCGGTCTCAGGTAGTGCAGGAAAGCTTGTATCACATTGGGGCATCTGTCATC
 AGTTCTGGGAAATAAGTTTATGATCATGGAGCTGAAGCCATTATGCCAACTATCTTTAATTTAATCCCGAAC
 AGTGCCAAAATTATGGCTACTTCTGGTGTGTAGCTGTTAGGCTAATCATTTCGGCACACTCACATCCCTC
 GGCTGATCCCTGTCATAACCAGCAACTGTACCTTAAGTCTGTCGCCGTGAGAAGGCGCTGTTTTGAATT
 TTTAGATTTGCTTTTACAAGAATGGCAGACACATTCACTAGAAAGACATATATCAGTATTAGCTGAAACA
 ATAAAGAAAGGAATACACGACGCTGATTCTGAAGCGAGAATAGAAGCCAGGAAGTCTACTGGGTTTCC



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ACAGTCACTTCAGCCGAGAAGCAGAACACCTGTACCACACTTTGGAGTCCTCGTATCAGAAGGCCCTACA
 GTCCCCTTGAAGAACTCGGACAGCATCGTGTCTCTGCCCCAGTCAGACCGATCCTCTTCCAGCTCTCAA
 GAGAGTCTCAACCGGCCACTTTTCAGCCAAAAGAAGTCCCAGTGGCAGCACTGCATCCAGAGGCTCTACAG
 TTAGTACCAAATCTGTGTCGACGACAGGATCTCTCCAGCGATCTCGAAGTGATATTGATGTGAACGCAGC
 AGCCAGTGCCAAATCCAAAGTCTCTCATCTCAGGATCCCCGCCTTCAGCTCTGCAGCAGCACTGCC
 CCAGATCCCTATGCGTCCCTAGACGGTACTACCCTAAAGCGGAGGGTCGGATCCGCACGACGCGCAGA
 GCTCGGGGAGCACCAATGTCCGCTCCACACCTCCGACAGTCGGGGCCGAGTCGCGCCAAAGTGGT
 TTCACAGTCTCAGCGATCCAGATCTGCTAACCCCTGCTGGTGTGGCAGCCGGTCAAGTCCCCTGGGAAG
 CTTTTGGGAAGTGGACTTGTGGGGTTCCTCCAGAGGCCACCGGTAACACCATCTCAGAAAAACGGA
 GCAAGATCCCAGGAGTCAGGGATGTAGCCGAGAAAAGTCTAACCCGATTGGATTAGCACGGAGCAG
 CCGTATCCCCGACCCAGCATGAGTCAGGGGTGCAGCCGCGATACCAGCCGTGAGAGCAGCCGCGATACA
 AGCCCTGCTCGGGGCTTACACCACTCGATCGTGGTGGGCTGGGCCAGTCAGGACGAATCCCTGGTCTG
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 ATCTGCGGCAGACTGAAGATGTAGCAGAGGTTCTCAACCATTGTGCCAGTTCCAACCTGGTGAAGCGAA
 AGAGGGGCTCCTGGGCTGCAGAACTTACTGAAGAGCCAAAGAACACTGAGTCGAGTAGAATTGAAGAGA
 CTGTGTGAGATTTTACCCGAATGTTTGGCCACCTCACAGCAAGAGAGTTTTTTCAGTATGTTTTTGGAGA
 CCCTCGTGGATTTTATAATCATTACATAAGGATGACTTGAAGACTGGCTCTTCGCTCTTCTCACACAAC
 ACTTAAGAAAATGGGAGCAGACTTACTTGGATCTGTGCAAGCAAAAAGTTCAGAAGGCTCTCGATGTCACC
 AGGGATTCCTTTCCATTTGATCAACAATTAACATTTTGGATGAGATTTATTGTGGATCAGACTCAAATC
 CAAACCTCAAGGTCAAAGTAGCAATCCTGAAATACATCGAATCTCTAGCCAGACAGATGGACCCACAGA
 TTTTGTAAATCCAGCGAAAACAAGACTAGCTGTTTCTAGGATATAACATGGACTAGCAACCAAGAGT
 TCAGACGTGAGAAAGGCAGCACAAATTTGCTCATCTCTCTGTTTGAACCTGAACAGCCTGAATTTACCA
 TGTTACTTGGTGCCTTGCCAAAAACATTCCAGGATGGTGCACCAAACTCCTGCATAAACCCCTCAAGAA
 CTCCAGTAACACCGGTGTGGATCTCCAAGCAATACAATTGGCCGGACACCTTCCCGCCACCCAGCAGC
 AGGACCAGCCCCCTGACCTCACCCACCACTGTTCCCATGGGGGACTATCTCCAAGTCGGTTGTGGGGTT
 GGAGTGCCGACGGGCTATCGAAGCCCCACCTCCCTTTTCTCAGCCTAACTCCATTTCCACCGCTCCCTC
 CCACAAGACTCTCAGGCGCTTACTCTCCAGCATGCTGGACTATGATACAGAGAACCTGAACTCTGAA
 GAAATCTACAGCTCTTTGCGTGGAGTTACAGAAGCCATTGAAAAGTTCAGCTTCCGAAGCCAGGAGGATC
 TAAATGAGCCAATCAAACGAGATGGCAAGAAGGATTGTGATATCGTGTCCCGAGATGGGGGAGCAGCCTC
 ACCTGCCACCGAGGGCCGGGAGGTAGTGAGATAGAAGGAGGCAGGATGGCTTTGGACAACAAGACCTCC
 CTGCTCAACACGCAGCCTCCACGTGCCTTTCCGGGGCCAAGAGCACGGGAATATAACCCGTATCCCTACT
 CCGACACCATCAACACCTATGACAAGACGGCTCTGAAGGAAGCAGTGTGGACGATGACATGGAGCAGCT
 CCGAGATGTGCCATTGACCACTCAGACCTGGTGGCTGACTTGTGAAAGAGCTATTAACCACAACGAG
 CGTGTGGAGGAGCGGAAGGGCGCACTGCTGGAGTTGCTCAAGATCACCAGGGAGGACAGCCTGGGCGTGT
 GGGAGGAGCACTCAAGACCATCTGCTGCTGCTGCTGGAACCTCTGGAGACAAAGACCATTCCATTGCG
 AGCTCTGGCACTGAGAGTTTTACGGGAAATCTGAGAAACCAGCCAGCAAGATTCAAAAACTATGCAGAA
 CTGACGATCATGAAGACTCTGGAAGCCCACAAAGACTCCCACAAGGAGGTGGTGAAGAGCGCCGAGGAAG
 CTGCATCCACGCTAGCCAGCTCAATCCACCCAGAGCAGTGCATCAAAGTGTGTGTTCCAATCATCCAGAC
 AGCCGACTACCCATCAACCTGGCTGCTATCAAGATGCAGACAAAGGTGGTGGAGAGGATACCAAGGAG
 TCCTTGTGTCAGCTCCTCGTCGACATCATCCCCGGCTGCTGCAGGGTTACGACAACACCCGAGAGCAGTG
 TACGGAAGCCAGTGTGTTTTGCTTAGTGGCAATCTATTCCGTAATCGGAGAAGATCTGAAACCTCACCT
 CGCACAGCTCACGGGAGCAAGATGAAGCTGCTGAACTTATATATAAAGAGGGCCAGACTACCAACAGC
 AACAGCAGCTCTCCTCTGATGTGTCCACACAGCTAG

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001293300

Insert Size:	4659 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_001293300.1</u> , <u>NP_001280229.1</u>
RefSeq Size:	7951 bp
RefSeq ORF:	4659 bp
Locus ID:	76707
UniProt ID:	<u>Q80TV8</u>
Cytogenetics:	1 E2.3
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 (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (4) encodes isoform (4). 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>