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Product datasheet for MC224501

Clasp1 (NM_029709) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clasp1 (NM_029709) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clasp1
Synonyms:	1700030C23Rik; 5730583A19Rik; B130045P17Rik; CLASP1alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC224501 representing NM_029709
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAACCGAGAATGGAGTCCTGTCTGGCCCAGGTGCTGCAGAAGGATGTGGGAAAGCGGCTGCAGGTTG
GCCAGGAACTCATAGACTATTTCTCAGACAGACAGAAGTCTGCTGACCTTGAGCACGACCAGACCCTGTT
GGATAAGCTTGTGGATGGACTCGCTACCTCTTGGGTGAACTCTAGCAATTACAAGGTGGTTCTCTTGGGC
ATGGACATCCTGTCGGCACTGGTGACTAGGCTGCAGGACCGGTTCAAGGCGCAAATCGGCACAGTGTTGC
CAAGTCTAATAGACAGACTGGGAGATGCTAAAGACTCCGTGAGGGAGCAAGACCAAACCCTGCTGCTAAA
GATCATGGATCAAGCTGCTAATCCCCAGTATGTGTGGGACAGAATGCTCGGAGGCTTCAAACACAAGAAC
TTCCGCACAAGAGAGGGCATCTGCCTCTGCCTTATTGCAACACTCAATGCCTCTGGGGCCCAGACTCTAA
CACTAAGCAAGATTGTGCCACATATATGTAACCTACTGGGAGATCCCAACAGCCAGGTTCGAGACGCAGC
AATAAACAGTCTGGTGGAGATTTATAGACATGTAGGTGAACGTGTGAGGGCAGACCTCAGTAAGAAAGGA
CTGCCACAGTCCCGGTTGAATGTCATTTTTACAAAATTTGATGAAGTCCAAAAGTCTGGAAATATGATAC
AGTCTGCAAATGAAAAAAATTTTGATGATGAAGATTCTGTGGATGGCAACAGGCCTTCTTCTGCCAGCTC
CTCATCATCCAAGGCCCCATCAAGTTCCCGGAGGAATGTTAACCTGGGGACCACCCGTAGGCTCATGTCA
TCCAGTCTTGGATCTAAGTCTTCAGCTGCAAAAGAAGGCGCTGGTGCTGTGGATGAAGAGGATTTTATTA
AAGCCTTTGATGATGTACCTGTAGTGCAGATTTACTCCAGCCGAGACCTCGAGGAATCCATAAACAAAAT
CAGAGAAATCCTGTCAGATGACAAGCATGACTGGGAGCAGAGAGTAAATGCTCTAAAAAAGATTAGATCG
TTACTCTTGGCTGGGGCTGCTGAGTACGATAACTTCTTTCAACACTTGCGTCTTCTGGACGGGGCCTTTA
AACTCTCTGCTAAGGACCTGCGGTCTCAGGTAGTGCGGGAAGCTTGTATCACATTGGGGCATCTGTCATC
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AGTGCCAAAATTATGGCTACTTCTGGTGTTGTAGCTGTTAGGCTAATCATTCGGCACACTCACATCCCTC
GGCTGATCCCTGTCATAACCAGCAACTGTACCTCTAAGTCTGTCGCCGTCAGAAGGCGCTGTTTTGAATT
TTTAGATTTGCTTTTACAAGAATGGCAGACACATTCACTAGAAAGACATATATCAGTATTAGCTGAAACA

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ATAAAGAAAGGAATACACGACGCTGATTCTGAAGCGAGAATAGAAGCCAGGAAGTGCTACTGGGGTTTCC
ACAGTCACTTCAGCCGAGAAGCAGAACACCTGTACCACACTTTGGAGTCCTCGTATCAGAAGGCCCTACA
GTCCCACTTGAAGAACTCGGACAGCATCGTGTCTCTGCCCCAGTCAGACCGATCCTCTTCCAGCTCTCAA
GAGAGTCTCAACCGGCCACTTTCAGCCAAAAGAAGTCCCACTGGCAGCACTGCATCCAGAGGCTCTACAG
TTAGTACCAAATCTGTGTCGACGACAGGATCTCTCCAGCGATCTCGAAGTGATATTGATGTGAACGCAGC
AGCCAGTGCCAAATCCAAAGTCTCCTCATCCTCAGGATCCCCCGCCTTCAGCTCTGCAGCAGCACTGCCC
CCAGGATCCTATGCGTCCCTAGGTCGGATCCGCACGAGACGGCAGAGCTCGGGGAGCACCACCAATGTCG
CCTCCACACCCTCCGACAGTCGGGGCCGCAGTCGCGCCAAAGTGGTTTCACAGTCTCAGCCTGGCAGCCG
GTCAAGTTCCCCTGGGAAGCTTTTGGGAAGTGGACTTGCTGGGGGTTCCTCCAGAGGCCCACCGGTAACA
CCATCCTCAGAAAAACGGAGCAAGATCCCCAGGAGTCAGGGATGTAGCCGAGAAACAAGTCCTAACCGGA
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GAGTACCAGCACTGACCTGGAAGCAGCAGTGGCTGACGCTCTGCTGTTAGGAGACGCCAGGAGCAAGAAG
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GCGTGTGCTCTGAGCGCTCATATGGCTCCAGGAATGGTGGCATTCCCCATTATCTGCGGCAGACTGAAGA
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CAGAACTTACTGAAGAGCCAAAGAACACTGAGTCGAGTAGAATTGAAGAGACTGTGTGAGATTTTCACCC
GAATGTTTGCCGACCCTCACAGCAAGAGAGTTTTCAGTATGTTTTTGGAGACCCTCGTGGATTTTATAAT
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GACTTACTTGGATCTGTGCAAGCAAAAGTTCAGAAGGCTCTCGATGTCACCAGGGATTCCTTTCCATTTG
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AGCAATCCTGAAATACATCGAATCTCTAGCCAGACAGATGGACCCCACAGATTTTGTAAATTCCAGCGAA
ACAAGACTAGCTGTTTCTAGGATCATAACATGGACTACAGAACCAAAGAGTTCAGACGTGAGAAAGGCAG
CACAAATTGTGCTCATCTCTCTGTTTGAACTGAACACGCCTGAATTTACCATGTTACTTGGTGCCTTGCC
AAAAACATTCCAGGATGGTGCCACCAAACTCCTGCATAACCACCTCAAGAACTCCAGTAACACCGGTGTG
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CACCCACCAACTGTTCCCATGGGGGACTATCTCCAAGCATGCTGGACTATGATACAGAGAACCTGAACTC
TGAAGAAATCTACAGCTCTTTGCGTGGAGTTACAGAAGCCATTGAAAAGTTCAGCTTCCGAAGCCAGGAG
GATCTAAATGAGCCAATCAAACGAGATGGCAAGAAGGATTGTGATATCGTGTCCCGAGATGGGGGAGCAG
CCTCACCTGCCACCGAGGGCCGGGGAGGTAGTGAGATAGAAGGAGGCAGGATGGCTTTGGACAACAAGAC
CTCCCTGCTCAACACGCAGCCTCCACGTGCCTTTCCGGGGCCAAGAGCACGGGAATATAACCCGTATCCC
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CGAGCGTGTGGAGGAGCGGAAGGGCGCACTGCTGGAGTTGCTCAAGATCACCAGGGAGGACAGCCTGGGC
GTGTGGGAGGAGCACTTCAAGACCATCCTGCTGCTGCTGCTGGAAACTCTCGGAGACAAAGACCATTCCA
TTCGAGCTCTGGCACTGAGAGTTTTACGGGAAATTCTGAGAAACCAGCCAGCAAGATTCAAAAACTATGC
AGAACTGACGATCATGAAGACTCTGGAAGCCCACAAAGACTCCCACAAGGAGGTGGTGAGAGCGGCCGAG
GAAGCTGCATCCACGCTAGCCAGCTCAATCCACCCAGAGCAGTGCATCAAAGTGCTGTGTCCAATCATCC
AGACAGCCGACTACCCCATCAACCTGGCTGCTATCAAGATGCAGACAAAGGTGGTGGAGAGGATCACCAA
GGAGTCCTTGCTGCAGCTCCTCGTCGACATCATCCCCGGCCTGCTGCAGGGTTACGACAACACCGAGAGC
AGTGTACGGAAAGCCAGTGTGTTTTGCTTAGTGGCAATCTATTCCGTAATCGGAGAAGATCTGAAACCTC
ACCTCGCACAGCTCACGGGGAGCAAGATGAAGCTGCTGAACTTATATATAAAGAGGGCCCAGACTACCAA
CAGCAACAGCAGCTCTTCCTCTGATGTGTCCACACACAGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_029709

Insert Size: 4383 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:	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:	NM_029709.2, NP_083985.2
RefSeq Size:	7675 bp
RefSeq ORF:	4383 bp
Locus ID:	76707
UniProt ID:	Q80TV8
Cytogenetics:	1 E2.3
Gene Summary:	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] Transcript Variant: This variant (3) lacks four exons in the central coding region, but maintains the reading frame, compared to variant 4. The encoded isoform (3) is shorter, compared to isoform 4.