

## Product datasheet for MR231805

### Clasp1 (NM\_001293301) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Clasp1 (NM_001293301) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clasp1
Synonyms:	1700030C23Rik; 5730583A19Rik; B130045P17Rik; CLASP1alpha
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231805 representing NM_001293301 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACCGAGAATGGAGTCCTGTCTGGCCAGGTGCTGCAGAAGGATGTGGAAAGCGGCTGCAGTTG  
GCCAGAACTCATAGACTATTTCTCAGACAGACAGAAGTCTGCTGACCTTGAGCAGCAGCAGACCCTGTT  
GGATAAGCTTGTGGATGGACTCGCTACCTTTGGGTGAAGTCTAGCAATTACAAGTGGTCTCTTTGGGC  
ATGGACATCCTGTCGGCACTGGTACTAGGCTGCAGGACCGTTCAAGGCGCAAATCGGCACAGTGTTC  
CAAGTCTAATAGACAGACTGGGAGATGCTAAAGACTCCGTGAGGGAGCAAGACCAAACCTGCTGCTAAA  
GATCATGGATCAAGCTGCTAATCCCCAGTATGTGTGGACAGAATGCTCGGAGGCTTCAAACACAAGAAC  
TTCCGCACAAGAGAGGGCATCTGCCTCTGCCTTATTGCAACACTCAATGCCTCTGGGGCCAGACTCTAA  
CACTAAGCAAGATTGTGCCACATATATGTAACCTACTGGGAGATCCCAACAGCCAGGTTCCGAGACGCAGC  
AATAAACAGTCTGGTGGAGATTTATAGACATGTAGGTGAAGTGTGAGGGCAGACCTCAGTAAGAAAGGA  
CTGCCACAGTCCCGTTGAATGTCATTTTTACAAAATTTGATGAAGTCCAAAAGTCTGGAATATGATAC  
AGTCTGCAAATGAAAAAATTTGATGATGAAGATTCTGTGGATGGCAACAGGCCCTTCTTCTGCCAGCTC  
CTCATCATCCAAGCCCCATCAAGTTCCCGGAGGAATGTTAACCTGGGGACCACCCGTAGGCTCATGTCA  
TCCAGTCTGGATCTAAGTCTTCAAGCTGCAAAAAGAAGGCGCTGGTGTGTGGATGAAGAGGATTTTATTA  
AAGCCTTTGATGATGTACCTGTAGTGCAGATTTACTCCAGCCGAGACCTCGAGGAATCCATAAACAAAAAT  
CAGAGAAATCCTGTCAGATGACAAGCATGACTGGGAGCAGAGAGTAAATGCTCTAAAAAAGATTAGATCG  
TTACTCTTGGCTGGGCTGCTGAGTACGATAACTTCTTTCAACACTTGCCTCTTCTGGACGGGGCCTTTA  
AACTCTCTGCTAAGGACCTGCGGTCTCAGGTAGTGCAGGAAAGCTTGTATCACATTGGGGCATCTGTCATC  
AGTTCTGGGAAATAAGTTTATGATCATGGAGCTGAAGCCATTATGCCAACTATCTTTAATTTAATCCCGAAC  
AGTGCCAAAATTATGGCTACTTCTGGTGTGTAGCTGTTAGGCTAATCATTCCGGCACACTCACATCCCTC  
GGCTGATCCCTGTCATAACCAGCAACTGTACCTTAAGTCTGTCGCCGTGAGAAGGCGCTGTTTTGAATT  
TTTAGATTTGCTTTTACAAGAATGGCAGACACATTCACTAGAAAGACATATATCAGTATTAGCTGAAACA  
ATAAAGAAAGGAATACACGACGCTGATTCTGAAGCGAGAATAGAAGCCAGGAAGTCTACTGGGTTTCC



[View online »](#)

ACAGTCACTTCAGCCGAGAAGCAGAACACCTGTACCACACTTTGGAGTCCTCGTATCAGAAGGCCCTACA  
GTCCCCTTGAAGAACTCGGACAGCATCGTGTCTGCCCCAGTCAGACCGATCCTCTTCCAGCTCTCAA  
GAGAGTCTCAACCGGCCACTTTTCAGCCAAAAGAAGTCCCCTGCGAGCACTGCATCCAGAGGCTCTACAG  
TTAGTACCAAATCTGTGTCGACGACAGGATCTCTCCAGCGATCTCGAAGTGATATTGATGTGAACGCAGC  
AGCCAGTGCCAAATCCAAAGTCTCTCATCTCAGGATCCCCGCCTTCAGCTCTGCAGCAGCACTGCC  
CCAGATCCTATGCGTCCCTAGGTGGATCCGCACGAGACGGCAGAGCTCGGGGAGCACCACCAATGTCCG  
CCTCCACACCCTCCGACAGTCGGGGCCGAGTCGCGCCAAAGTGGTTTTCACAGTCTCAGCCTGGCAGCCG  
GTCAAGTTCCTGGAAGCTTTTGGGAAGTGGACTTGCTGGGGTTTCTCCAGAGGCCACCAGGTAACA  
CCATCCTCAGAAAAACGGAGCAAGATCCCCAGGAGTCAGGGATGTAGCCGAGAAACAAGTCTAACCGGA  
TTGGATTAGATCGGTTTGGGCTGGGCCAGTCAGGACGAATCCCTGGTTCTGTGAACGCCATGAGAGTCTT  
GAGTACCAGCACTGACCTGGAAGCAGCAGTGGCTGACGCTCTGAAGAAGCCTGTGAGAAGGAGATACGAG  
CCCTATGGAATGTAATCTGATGATGATGCCAACAGTGTGCTCCAGCGTGTGCTCTGAGCGCTCATATG  
GCTCCAGGAATGGTGGCATTCCCATTATCTGCGGCAGACTGAAGATGTAGCAGAGGTTCTCAACCATTG  
TGCCAGTTCCTCAACTGGTCAGAACGGAAAGAGGGGCTCCTGGGCTGCAGAACTTACTGAAGGCCAAAGA  
ACACTGAGTCGAGTAGAATTGAAGAGACTGTGTGAGATTTTACCCTGAATGTTTCCGACCCCTCACAGCA  
AGAGAGTTTTTTCAGTATGTTTTTGGAGACCTCGTGGATTTTATAATCATTATAAGGATGACTTGAAGA  
CTGGCTCTTCGTCCTTCTCACACAACACTTAAAGAAAATGGGAGCAGACTTACTTGGATCTGTGCAAGCA  
AAAGTTGAGAAGGCTCTCGATGTACCAGGGATTCCTTTCCATTTGATCAACAATTTAACATTTTGTGATG  
GATTTATTGTGGATCAGACTCAAACCTCAAACCTCAAGGTCAAAGTAGCAATCCTGAAATACATCGAATC  
TCTAGCCAGACAGATGGACCCACAGATTTTGTAAATCCAGCGAAACAAGACTAGCTGTTTCTAGGATC  
ATAACATGGACTACAGAACCAAGAGTTTCAGACGTGAGAAAGGCAGCACAATTTGTGCTCATCTCTGT  
TTGAACTGAACACGCCTGAATTTACCATGTTACTTGGTGCCTTGCCAAAAACATTCCAGGATGGTGGCC  
CAAACCTCTGCATAACCACCTCAAGAATCCAGTAACACCCGGTGTGGGATCTCAAAGCAATACAATTGGC  
CGGACACCTTCCCGCCACCCAGCAGCAGGACCCGCCCCCTGACCTCACCCACCAACTGTTCCCATGGGG  
GACTATCTCCAAGCATGCTGGACTATGATACAGAGAACCTGAACTCTGAAGAAATCTACAGCTCTTTGCG  
TGGAGTTACAGAAGCCATTGAAAAGTTCAGCTTCCGAAGCCAGGAGGATCTAAATGAGCCAAATCAAACGA  
GATGGCAAGAAGGATTGTGATATCGTGTCCCGAGATGGGGGAGCAGCCTCACCTGCCACCCAGGGCCGGG  
GAGGTAGTGAGATAGAAGGAGGCAGGATGGCTTTGGACAACAAGACCTCCCTGCTCAACACGCAGCCTCC  
ACGTGCCTTTCCGGGGCAAGAGCACGGGAATATAACCCGTATCCCTACTCCGACACCATCAACACCTAT  
GACAAGACGGCTCTGAAGGAAGCAGTGTGTTGACGATGACATGGAGCAGCTCCGAGATGTGCCATTGACC  
ACTCAGACCTGGTGGCTGACTTGTGAAAGAGCTATCTAACCACAACGAGCGTGTGGAGGAGCGGAAGGG  
CGCACTGCTGGAGTTGCTCAAGATCACCCAGGGAGGACAGCCTGGGCGTGTGGGAGGAGCACTTCAAGACC  
ATCCTGCTGCTGCTGCTGGAACCTCTCGGAGACAAAGACCATTCCATTGAGCTCTGGCACTGAGAGTTT  
TACGGGAAATTTGAGAAACCAGCCAGCAAGATTCAAAACTATGCAGAACTGACGATCATGAAGACTCT  
GGAAGCCACAAAGACTCCCACAAGGAGGTGGTGGAGAGCGCCGAGGAAGCTGCATCCACGCTAGCCAGC  
TCAATCCACCCAGAGCAGTGCATCAAAGTGTGTCCAATCATCCAGACAGCCGACTACCCCATCAACC  
TGGCTGCTATCAAGATGCAGACAAGGTGGTGGAGAGGATCACCAAGGAGTCTTGTGCTGCACTCCTCGT  
CGACATCATCCCCGGCTGCTGCAGGGTTACGACAACACCGAGAGCAGTGTACGGAAAGCCAGTGTGTTT  
TGCTTAGTGGCAATCTATTCCGTAATCGGAGAAGATCTGAAACCTCACCTCGCACAGCTCACGGGGAGCA  
AGATGAAGCTGCTGAACCTATATATAAAGAGGGCCAGACTACCAACAGCAACAGCAGCTTCTCTCTGA  
TGTGTCCACACAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231805 representing NM\_001293301  
 Red=Cloning site Green=Tags(s)

```
MEPRMESCLAQVLQKDVGKRLQVGQELIDYFSDRQKSADLEHDQTL LDKLVDGLATSWVNSSNYKVLLG
MDILSALVTRLQDRFKAQIGTVLPSLIDRLGDAKDSVREQDQTL LKIMDQAANPQYVWDRMLGGFKHKN
FRTREGICLCIATLNASGAQTLT LSKIVPHICNLLGDPNSQVRDAAINSLVEIYRHVGERVADLSKKG
LPQSRLNVIFTKFDEVQKSGNMIQSANEKNFDDSDV DGNRPSSASSSSSKAPSSRRNVNLGTRRLMS
SSLGSKSSAAKEGAGAVDEEDFIKAFDDVPVQIYSSRDLEESINKIREILSDDKHDWEQVRNALKKIRS
LLLAGAAEYDNFFQHRLRLDGAFLKSAKDLRSQVVREACTITLGH LSSVLGNKFDHGAEAIMPTIFNLIPN
SAKIMATSGVVAVRLIIRHTHIPRLIPVITSNCTSKSVAVRRRCFEFLDLLLQEWQTHSLERHISVLAET
IKKGIHDADSEARIEARKCYWGFHSHFSREA EHL YHTLESSYQKALQSHLKNSDSIVSLPQSDRSSSSSQ
ESLNRPLSAKRSPTGSTASRGSTVSTKSVSTTGS LQRSRSDIDVNAASAKSKVSSSSGSPAFSSAAALP
PGSYASLGRIRTRQSSGTTNAVSTPSDSRGRSRAK VVSQSQPGRSSSPGKLLGSLAGGSSRGPPVT
PSEKRSKIPRSQCSRETSNRI GLDRFGLGQSGRIPGSVNAMRVLSTSTDLEAAVADALKKPVRRRYE
PYGMYSDDDANS DASSVCSERSYGSRRGGIPHYLRQTEDVAEVLNHCASSNWSEKLEGLGLQNLKLSQR
TLSRVELKRLCEIFTRMFADPHSKRVFSMFL ETLVDFI I IHKDDLQDWLFVLLTQLLKKMGADLLG SVQA
KVQKALDVTRDSFPFDQQFNILMRFIVDQTQTPNLKVKVAILKYIE SLARQMDPTDFVNSSETRLAVSRI
ITWTEPKSSDVRKAAQIVLISL FELNTPEFTMLLGALPKTFQD GATKLLHNHLKNSNTGVGSPSNTIG
RTPSRHPSRTSPLTSP TNC SHGGLSPSMLDYDTENLNSEEIYSSLRGVTEAIEKFSFRSQEDLN EPIKR
DGKKDCDIVSRDGAASPATEGRGGSEIEGGRMALDNK TSLNTPPRAFPGRAREYNPYPSDTINTY
DKTALKEAVFDDMEQLRDVPI D HSDLVADLLKELSNHNERVEERK GALLELLKI TREDSLGVWEEHFKT
ILL LLLLETLGDKDHSIRALALRVLREILRNQP ARFKNYAELTIMK TLEAHKDSHKEVVRAAEAASTLAS
SIHPEQCICKVLCPIIQ TADYPINLAAIKMQTKVVERITKESLLQLLVDIIPGLLQGYDNTESSVRKASVF
CLVAIYSVIGEDLKPHLAQLTGSKMKLLNLYIKRAQT TNSSSSSSDVSTHS
```

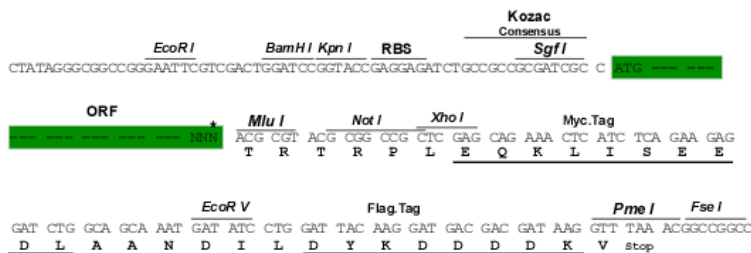
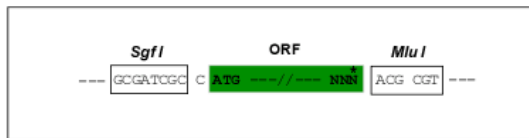
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

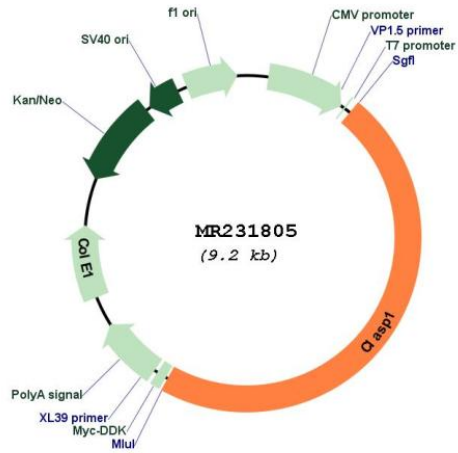
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN: NM\_001293301

ORF Size: 4356 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_001293301.1](#), [NP\\_001280230.1](#)

**RefSeq Size:** 7651 bp

**RefSeq ORF:** 4359 bp

**Locus ID:** 76707

**UniProt ID:** [Q80TV8](#)

**Cytogenetics:** 1 E2.3

**MW:** 160.7 kDa

**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]