

Product datasheet for MR231760

Clasp2 (NM_001286600) Mouse Tagged ORF Clone

Product data:

| | |
|--------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Clasp2 (NM_001286600) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Clasp2 |
| Synonyms: | 1500004F14Rik; 8030404L10Rik; C77448; CLASP2beta; mKIAA0627 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >MR231760 representing NM_001286600 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCGCGTGTATTTGCAAACGGATCTGTGATTATAAAAGCTTTGATGATGAGGAATCAGTGGATGGAA
ATAGGCCGTCGTCAGCTGCTTCAGCCTTCAAGGTTCTGCACCTAAAACACCTGGGAATCCTGTCAGCAG
TGCAAGAAAGCCTGGCTCAGCAGGTGGCCCTAAGGTTGGAGGTCCTTCTAAAGAAGGAGGGGCTGGAGCA
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TCACTGTTGCTCACCTTTCAACAGTCTTGGGAAACAAATTTGATCACGGCGCTGAAGCCATCGTCCCTAC
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CACAGAAGAGAAGCAAGATCCCAAGGAGCCAGGGCTGCAGCAGAGAGGCCAGCCATCTCGGCTCTCAGT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231760 representing NM_001286600
 Red=Cloning site Green=Tags(s)

MRR LICKRICDYKSFDEESVDGNRPSSAASAFKVPAPKTPGNPVSSARKPGSAGGPKVGGPSKEGGAGA
 VDEDDF IKAFTDVPVSVQIYSSRELEETLNKIREILSDDKHDWDQRANALKKIRSLLVAGAAQYDCFFQHL
 RLLDGALKLSAKDLRSQVVREACITVAHLSTVLGNKFDHGAEIVPTLFNLVPNSAKVMATSGCAAIRFI
 IRHHTVPRLIPLITSNCTSKSVPVRRRSFEFLDLLLQEWQTHSLERHAAVLVETIKKGIHDADAERVEA
 RKTVMGLRNHFGEAETLYNSLEPSYQKSLQTYLKSSGSVASLPQSDRSSSSSQESLNRPFSSKWSTANP
 STVAGRVSVGGSKANPLPGSLQRSRSDIDVNAAGAKAHHAAGQAVRSGRLGAGALNPGSYASLEDTSDK
 MDGTASDDGRVRAKLSTPLVAVGNAKTDSRGRSRTKMVSQSQRSSSPDKNEGSQSANTIGAGSRSGSPGR
 VLT TTTALSTVSSGAQRVLVNSASAQKRSKIPRSQGCSEASPSRLSVARSSRIPRSVSVQGCSEASRES
 SRDTSVRSFQPLGPGYISQSSRLSSSVSAMRVLNTGSDVEEAVADALLGDIRTKKKPARRRYESYGM
 HSDDDANSDASSCSERSYSSRNGSIPTYMRQTEDVAEVLNRCASNWSERKEGLLGLQNLKKNQRTLRSR
 VELKRLCEIFTRMFADPHGKVF SMFLETLVDFIQVHKDDLQDWLFVLLTQLLKKMGADLLGSVQAKVQKA
 LDITRESFPNDLQFNILMRFTVDQTQTPSLKVKVAILKYIETLAKQMDPRDFTNSSETRLAVSRVITWTT
 EPKSSDVRKAAQSVLISL FELNTPFTMLL GALPKTFQDGATKLLHNLHNTGNGTQSSMGSPLTRPTPR
 SPANWSSPLTSPNTSNTLSPSAFDYDTENMNSEDIYSSLRGVTEAIQNF SFRSQEDMSEPVRRDPKKE
 DGDITCSGPGMSDPRAGGDAADGSQPALDNKASLLHSMPLHSSPRSRDYNPYNYSDSISPFNKSALEAM
 FDDADQFPDDLSDHSDLVAELLKELSNHNERIEERKIALYELMKLTQEESFSVWDEHFKTILLLLLET
 LGDKEPTIRALALKVLKEILRHQPARKNYAEL TVMKTLEAHKDPHKEVVRSAEEAASVLATISISPEQCI
 KVLCP IIQTADYPINLAAIKMQTKVIERVSKETLNMLLPEIMPGLIQGYDNSESSVRKACVFCLVAVHAV
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

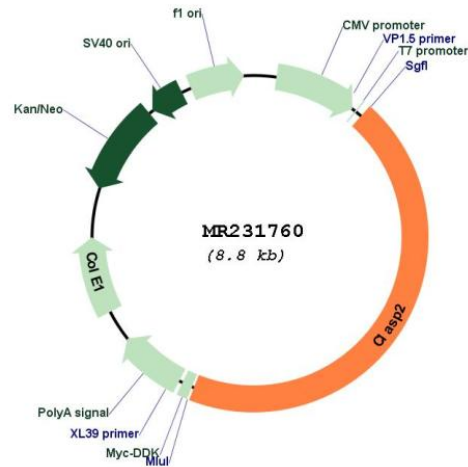
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286600

ORF Size: 3912 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_001286600.1](#), [NP_001273529.1](#)

RefSeq Size: 5678 bp

RefSeq ORF: 3915 bp

Locus ID: 76499

UniProt ID: [Q8BRT1](#)

Cytogenetics: 9 F3

MW: 143 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. Acts as a mediator of ERBB2-dependent stabilization of microtubules at the cell cortex.[UniProtKB/Swiss-Prot Function]