

Product datasheet for MR228249

Clasp2 (NM_001286603) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clasp2 (NM_001286603) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clasp2
Synonyms:	1500004F14Rik; 8030404L10Rik; C77448; CLASP2beta; mKIAA0627
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR228249 representing NM_001286603 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCTATGGGAGATGATAAAGCTTTGATGATGAGGAATCAGTGGATGGAAATAGGCCGTCGTGAGCTG
 CTTGAGCTTCAAGGTTCTGCACCTAAACACCTGGGAATCCTGTGAGCAGTGAAGAAAGCTGGCTC
 AGCAGGTGGCCCTAAGGTTGGAGGTCCTTCTAAGAAGGAGGGGCTGGAGCAGTTGATGAAGATGACTTT
 AAAAAAGCTTTTACAGATGTTCTTCTGTTGATCTATTCTAGTCGAGAACTTGAAGAGACGTTAAATA
 AGATCAGGGAATTTTGTGAGATGACAAACATGACTGGGACCAGCGTGCCATGCGTGCATGTCCTGCAG
 CCTGGTAGCCAGTGAGGTTGAGAGAGCTCTGGCCTGGCCTCTGTGGAGTACCTAGCTACTTATCAGCAC
 CATTGTCATTGCACCCTGAGTCATGAGGACTTGCCAGAGAAGAGATTGACTTCTCCTGTGAGCTCGGCAT
 TTGTTCAACAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR228249 representing NM_001286603 Red=Cloning site Green=Tags(s)
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MAMGDDKSFDDDESVDGNRPSSAASAFKVPAPKTPGNPVSSARKPGSAGGPKVGGPSKEGGAGAVDEDDF
 IKAFTDVPSVQIYSSRELEETLNKIREILSDDKHDWDQRANACMSCSLVASEVERALAWPLWSHLATYQH
 HCHCTLSHEDLPEKRLTSPVSAFVQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:	SgfI-MluI
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Cloning Scheme:



ACCN: NM_001286603

ORF Size: 501 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001286603.1](#), [NP_001273532.1](#)

RefSeq Size: 1493 bp

RefSeq ORF: 504 bp

Locus ID: 76499

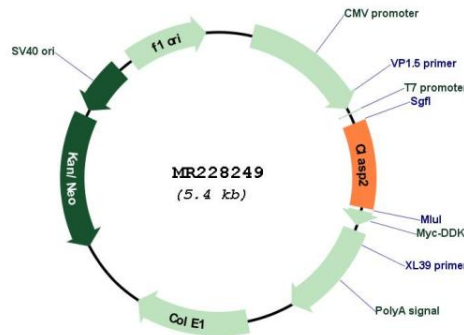
UniProt ID: [Q8BRT1](#)

Cytogenetics: 9 F3

MW: 18.5 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]

Product images:



Circular map for MR228249