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Product datasheet for MC226038

Clasp2 (NM_001286603) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clasp2 (NM_001286603) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clasp2
Synonyms:	1500004F14Rik; 8030404L10Rik; C77448; CLASP2beta; mKIAA0627
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC226038 representing NM_001286603
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTATGGGAGATGATAAAAGCTTTGATGATGAGGAATCAGTGGATGGAAATAGGCCGTCGTCAGCTG
CTTCAGCCTTCAAGGTTCCTGCACCTAAAACACCTGGGAATCCTGTCAGCAGTGCAAGAAAGCCTGGCTC
AGCAGGTGGCCCTAAGGTTGGAGGTCCTTCTAAAGAAGGAGGGGCTGGAGCAGTTGATGAAGATGACTTT
ATAAAAGCTTTTACAGATGTTCCTTCTGTTCAGATCTATTCTAGTCGAGAACTTGAAGAGACGTTAAATA
AGATCAGGGAAATTTTGTCAGATGACAAACATGACTGGGACCAGCGTGCCAATGCGTGCATGTCCTGCAG
CCTGGTAGCCAGTGAGGTTGAGAGAGCTCTGGCCTGGCCTCTGTGGAGTCACCTAGCTACTTATCAGCAC
CATTGTCATTGCACCCTGAGTCATGAGGACTTGCCAGAGAAGAGATTGACTTCTCCTGTGAGCTCGGCAT
TTGTTCAACATTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001286603
Insert Size:	504 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).

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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:	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_001286603.1, NP_001273532.1
RefSeq Size:	1493 bp
RefSeq ORF:	504 bp
Locus ID:	76499
UniProt ID:	Q8BRT1
Cytogenetics:	9 F3
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] Transcript Variant: This variant (8) differs in both UTR's and the coding region but maintains the reading frame, compared to variant 3. This results in a protein (isoform h) that is shorter at both the N- and C-termini, compared to isoform c.

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