

## Product datasheet for **MC225461**

### Aspm (NM\_009791) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aspm (NM\_009791) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Aspm  
**Synonyms:** Calmbp1; D330028K02Rik; MCPH5; Sha1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225461 representing NM\_009791  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGACGATGCAGGCAGCCTCTGCCAGAGGAGAGGGGGCGGGCGGACCAGATCCTGAGGCCG  
 GGGACCCGTCTCCGCGGTGCTGTTGCTCAGCCACTTCTGCGGCGTTCCTTCTCTGCTCGGGGATGT  
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CACAAAGTAGATCTAAAGTCACTGATCGTATTTATCGTCTCTACAAATTTACAGTTCCTAAGCATAAAGT  
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ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-MluI
<b>ACCN:</b>	NM_009791
<b>Insert Size:</b>	9369 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009791.4</a> , <a href="#">NP_033921.3</a>
<b>RefSeq Size:</b>	9866 bp
<b>RefSeq ORF:</b>	9369 bp
<b>Locus ID:</b>	12316
<b>UniProt ID:</b>	<a href="#">Q8CJ27</a>
<b>Cytogenetics:</b>	1 F
<b>Gene Summary:</b>	Involved in mitotic spindle regulation and coordination of mitotic processes. The function in regulating microtubule dynamics at spindle poles including spindle orientation, astral microtubule density and poleward microtubule flux seem to depend on its association with the katanin complex formed by KATNA1 and KATNB1. Enhances the microtubule lattice severing activity of KATNA1 by recruiting the katanin complex to microtubules. Can block microtubule minus-end growth and reversely this function can be enhanced by the katanin complex (PubMed:28436967). May have a preferential role in regulating neurogenesis. [UniProtKB/Swiss-Prot Function]