

Product datasheet for **RC235345**

ASPM (NM_001206846) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ASPM (NM_001206846) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ASPM
Synonyms: ASP; Calmbp1; MCPH5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235345 representing NM_001206846
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

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Protein Sequence:

>RC235345 representing NM_001206846
 Red=Cloning site Green=Tags(s)

MANRRVGRGCWEVSPTRRPPAGLRGPAEEEEASSPPVLSL SHFCRSPFLCFGDVLLGASRTL SLALDNP
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 SLILEENKIPISPI SPAFNECHGATCLPLSVRRSTTYSSLHASENRELLNVHSANVSKVSFNEKAVTETS
 FNSVNVNGQGENSKLSLTPNCSSTLNITQSQIHFLSPDSFVNNSHGANNELELVTCLSSDMFMKDNSQP
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 RLFTSEKMOVKA IKKLEIEIEARRLIVRKDRHLWKDVG ERQKVLNWL SYNPLWLRIGLETTYGELISLED
 NSDVTGLAMFILNRLWNPDIAAEYRHP TVPHLYRDGHEEALSKFTLKKLLLLVCFLDYAKISRLIDHDP
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 RAYKLYLAVKNANKQVNSVICIQRWFRARLQEKRFIQKYHSIKKIEHEGQECLSQRNRAASVIQKAVRHF
 LLRKKQEKFTSGI I KIQALWRGYSWRKKN DCTKIKAIRLSLQVNNREIREENKLYKRTALALHYLLTYKH
 LSAILEALKHLEVTRL SPLCCENMAQSGAISKIFVLIRSCNRSIPCMEVIRYAVQVLLNVSKYEKTTSA
 VYDVENCIDILLELLQIYREKPGNKVADKGSIFTKTCCLLAILLKTNRASDVRSR SKVVDRISYSLYKL
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 PY

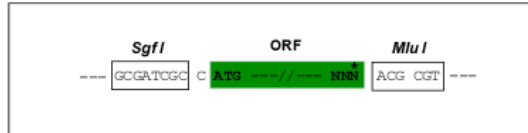
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Restriction Sites:

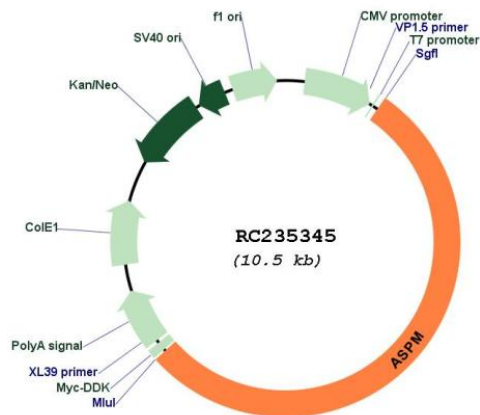
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001206846

ORF Size: 5676 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:	<ol style="list-style-type: none">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_001206846.1 , NP_001193775.1
RefSeq Size:	6151 bp
RefSeq ORF:	5679 bp
Locus ID:	259266
UniProt ID:	Q8IZT6
Cytogenetics:	1q31.3
Protein Families:	Druggable Genome
MW:	218.2 kDa
Gene Summary:	This gene is the human ortholog of the <i>Drosophila melanogaster</i> 'abnormal spindle' gene (<i>asp</i>), which is essential for normal mitotic spindle function in embryonic neuroblasts. Studies in mouse also suggest a role of this gene in mitotic spindle regulation, with a preferential role in regulating neurogenesis. Mutations in this gene are associated with microcephaly primary type 5. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2011]