

## Product datasheet for MR223061

### Cntnap1 (NM\_016782) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cntnap1 (NM\_016782) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cntnap1  
**Synonyms:** AI841080; Caspr; NCP1; Nrnx4; p190; shm  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR223061 representing NM\_016782  
 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCC**CGATCGCC**

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Protein Sequence: >MR223061 representing NM\_016782  
 Red=Cloning site Green=Tags(s)

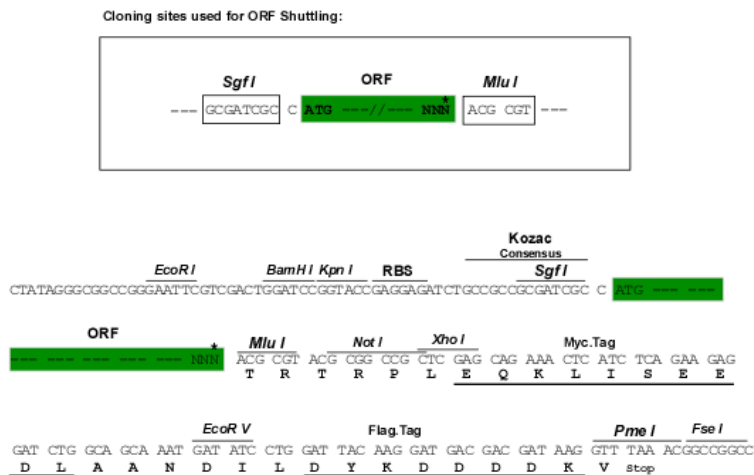
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 LRYQLGTSPYVYQLTTRPVTDGQPHSVNITRVYRNLFIQVDYFPLTEQKFSLLVDSQLDSPKALYLGRVM  
 ETGVIDPEIQRYNTPGFSGCLSGVRFNNAVPLKTHFRTPRPM TAEAEAMRVQGE LSESNCGAMPRLVSE  
 VPPELDPWYLPDFPYHDDGWI AILLGFLVAFLLGLVGMLVLFY LQNHRYKGSYHTNEPKATHDSHPG  
 GKAPLPPSGPAQAPAPTAPTQLPTPAPAPAPASGPGPRDQNL PQIILEESRSE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9001\\_c09.zip](https://cdn.origene.com/chromatograms/mm9001_c09.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



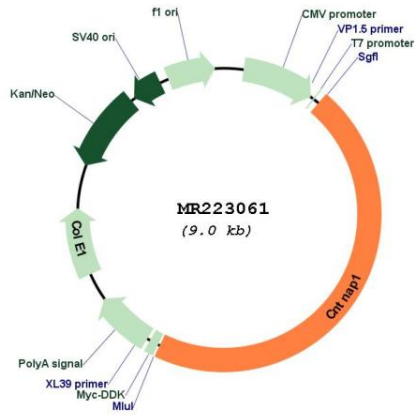
\* The last codon before the Stop codon of the ORF

ACCN: NM\_016782

ORF Size: 4155 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_016782.2</a> , <a href="#">NP_058062.2</a>
<b>RefSeq Size:</b>	5360 bp
<b>RefSeq ORF:</b>	4158 bp
<b>Locus ID:</b>	53321
<b>UniProt ID:</b>	<a href="#">O54991</a>
<b>Cytogenetics:</b>	11 D
<b>MW:</b>	156.8 kDa
<b>Gene Summary:</b>	Required, with CNTNAP2, for radial and longitudinal organization of myelinated axons (PubMed:25378149). Plays a role in the formation of functional distinct domains critical for saltatory conduction of nerve impulses in myelinated nerve fibers. Demarcates the paranodal region of the axo-glial junction. In association with contactin involved in the signaling between axons and myelinating glial cells (PubMed:25378149, PubMed:11395000).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223061