

## Product datasheet for **MC209827**

### **Cabp2 (NM\_001160253) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cabp2 (NM\_001160253) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cabp2  
**Synonyms:** MGC129493  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC209827 representing NM\_001160253  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCCCTACCGGAGGGCCCAACAGATGGCAGCCTCCCTGAAGGAGACTCCAGTCCATCCTCAGGCACTG  
CAGGACCCAGCCAAGACCTAGCCAGCCCCACTACTCGCAGAAGGGCCCTTCTCCGTGAGCTGGAAGCCCA  
GGTGCAGGCTGCCTACGGACAGGATCGAGAGCTGAGACCAGAAGAGATCGAAGAGCTGCAGATCGCCTTC  
CAGGAGTTTGACCGAGACCGGGACGGCTACATCGGCTACCGGGAGCTGGGTGCCTGCATCGCGACTGG  
GCTACATGCCACGGAGATGGAGCTCATTGAGATATCACAAACAGATCAGTGGTGGGAAGGTGGATTTTGA  
AGATTTTGTGGAGCTGATGGGTCCCAAGCTGCTGGCAGAGACGGCAGACATGATTGGCGTGAGGGAGCTT  
CGAGACGCCTTCCGGGAGTTCGACACCAACGGTATGGCTGCATCAGCGTAGGGGAGCTCCGGGCAGCCC  
TCAAAGCTCTGCTGGGGGAACGCCTCAGCCAACGGGAAGTAGATGAGATACTCCAAGACATTGACCTCAA  
TGGAGATGGCCTGGTTGACTTTGAAGAATTTGTTCCGGATGATGTCTCGG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001160253  
**Insert Size:** 612 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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<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>	<u>NM_001160253.1, NP_001153725.1</u>
<b>RefSeq Size:</b>	1057 bp
<b>RefSeq ORF:</b>	612 bp
<b>Locus ID:</b>	29866
<b>UniProt ID:</b>	<u>Q9JLK4</u>
<b>Cytogenetics:</b>	19 A
<b>Gene Summary:</b>	Required for sound encoding at inner hair cells (IHCs) synapses, likely via inhibition of the inactivation of voltage-gated calcium channel of type 1.3 (Cav1.3) in the IHCs (PubMed:28183797). Required for the normal transfer of light signals through the retina (PubMed:27822497).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) lacks two 5' exons, but has an alternate 5' exon, as compared to variant 1. The resulting isoform (3) is shorter and has a different N-terminus, as compared to isoform 1.