

Product datasheet for MC209828

Cabp2 (NM_013878) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cabp2 (NM_013878) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cabp2
Synonyms:	MGC129493
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209828 representing NM_013878 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGTTCAGAGACCCATGGGGAAGTGTGCCAAGACGCCATGGCACCGGGGTCTAAGGAACGCTGGCAGT
 GGCCTGGATCCCCCTAGGGGGCTCCCGCCCCAGCCCTGGTCCCAGAACTGAGGAGCAGGAGGGGACACA
 GGGCTACTCAGTGCTCGGCAGCCTGGTGGGGCCAGCATGCATCTTCCTTCGACCCAGCATCGCGGTACC
 CAGCTCGATCGAGAGCTGAGACCAGAAGAGATCGAAGAGCTGCAGATCGCCTTCCAGGAGTTTGACCGAG
 ACCGGGACGGCTACATCGGCTACCGGGAGCTGGGTGCCTGCATGCGGACACTGGGCTACATGCCCCACGGA
 GATGGAGCTCATTGAGATATCACAAAGATCAGTGGTGGGAAGGTGGATTTTGAAGATTTTGTGGAGCTG
 ATGGGTCCCAAGCTGCTGGCAGAGACGGCAGACATGATTGGCGTGAGGGAGCTTCGAGACGCCTTCGGG
 AGTTTCGACACCAACGGTGATGGCTGCATCAGCGTAGGGGAGCTCCGGGCAGCCCTCAAAGCTCTGCTGGG
 GGAACGCCTCAGCCAACGGGAAGTAGATGAGATACTCAAGACATTGACCTCAATGGAGATGGCCTGGTT
 GACTTTGAAGAATTTGTTTCGGATGATGTCTCGG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2232_g06.zip

Restriction Sites: SgfI-MluI

ACCN: NM_013878

Insert Size: 666 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC107029](#), [AA107030](#)

RefSeq Size: 934 bp

RefSeq ORF: 666 bp

Locus ID: 29866

UniProt ID: [Q9JLK4](#)

Cytogenetics: 19 A

Gene Summary: 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 (1) encodes the longest isoform (1).