

Product datasheet for **MR219040**

Cabp2 (NM_013878) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Cabp2
Synonyms:	MGC129493
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR219040 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGGAACTGTGCCAAGACGCCATGGCACCGGGGTCTAAGGAACGCTGGCAGTGGCCTGGATCCCCC
TAGGGGGCTCCCGCCAGCCCTGGTCCCAGAACTGAGGAGCAGGAGGGGACACAGGGCTACTCAGTGCT
CGGCAGCCTGGTGGGGCCAGCATGCATCTTCCTTCGACCCAGCATCGCGGTACCCAGCTCGATCGAGAG
CTGAGACCAGAAGAGATCGAAGAGCTGCAGATCGCCTTCCAGGAGTTTGACCGAGACCGGGACGGCTACA
TCGGCTACCGGGAGCTGGGTGCCTGCATGCGGACACTGGGCTACATGCCACGGAGATGGAGCTCATTGA
GATATCACAACAGATCAGTGGTGGGAAGGTGGATTTTGAAGATTTTGTGGAGCTGATGGGTCCCAAGCTG
CTGGCAGAGACGGCAGACATGATTGGCGTGAGGGAGCTTCGAGACGCCTTCGGGAGTTTCGACACCAACG
GTGATGGCTGCATCAGCGTAGGGGAGCTCCGGGCAGCCCTCAAAGCTCTGCTGGGGAAACGCTCAGCCA
ACGGGAAGTAGATGAGATACTCCAAGACATTGACCTCAATGGAGATGGCCTGGTTGACTTTGAAGAATTT
GTTCCGATGATGTCTCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>MR219040 protein sequence
Red=Cloning site Green=Tags(s)

MGNCAKTPWHRGSKERQWPGSPGLGSRSPGPRTTEEQEGTQGYSVLGSLVGPACIFL RPSIAATQLDRE
LRPEEIEELQIAFQEFDRDRDGYIGYRELGACMRTLGYMPTEMLIEISQQISGGKVD FDFVELMGPKL
LAETADMIGVREL RDAFREFD TNGDGCISVGELRAALKALLGERLSQREYDEILQDIDLNGDGLVDFEEF
VRMMSR

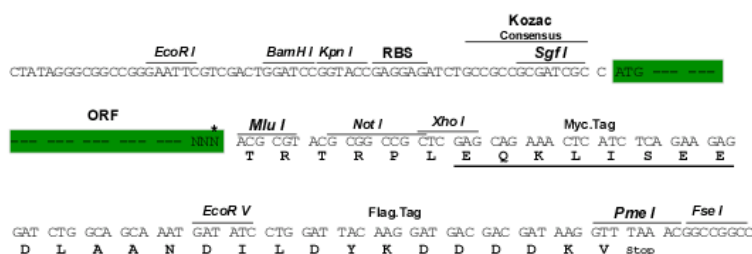
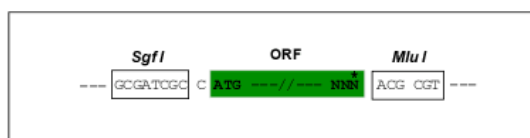
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

NM_013878

ORF Size:

648 bp

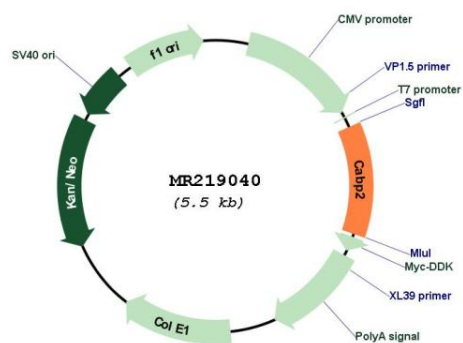
OTI Disclaimer:

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](#)

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:	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:	<u>NM_013878.2</u> , <u>NP_038906.2</u>
RefSeq Size:	934 bp
RefSeq ORF:	666 bp
Locus ID:	29866
UniProt ID:	<u>Q9JLK4</u>
Cytogenetics:	19 A
MW:	24.2 kDa
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]

Product images:



Circular map for MR219040