

Product datasheet for MC212314

Caln1 (NM_181045) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Caln1 (NM_181045) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Caln1
Synonyms:	9630012C17Rik; Cabp8; MNCb-0849
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC212314 representing NM_181045 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCGGCTGCCTGAGCAACCTGGAGATGGGAAGCCTGAGAATGAGACAAAGGGGGACCAAGAAACCCCG
AAAGGGGAGAGGCCACGGAGAAGCCAGCCCTGACTTCCCCACCTGGGAAAAGATGCCGTTCCACCA
TGTAACCGCTGGCTTGTGTACAAGGGGAATTACCTCAACCGATCTCTGTCTGCAGGCAGTGACAGCGAG
CAGTTGGCTAATATCTCGTGGAAGAACTGGATGAAATCCGAGAAGCCTTCCGTGTTCTGGACAGAGATG
GCAACGGCTTCATCTCCAAGCAGGAGCTGGGCATGGCCATGCGCTCCTTGGGGTACATGCCGAGCGAAGT
GGAGCTGGCTATCATCATGCAGCGTTTGGACATGGACGGAGATGGGCAGGTAGATTTTGATGAATTCATG
ACGATTCTTGGGCCAAGCTGGTGTCAACAGAAGTCCGGATGGTTTTCTTGGAAATACGATAGACAGTA
TCTTCTGGCAGTTCGACATGCAGAGAGTCACGCTGGAAGAGCTGAAGCACATCCTGTACCACGCCTCCG
GGATCACTTAACGATGAAGGACATTGAGAACATTATCATCAACGAGGAGGAGAGTTTGAACGAGACCTCG
GGAACTGCCAGACAGAGTTTGAAGGAGTTCATTCGCAGAAACAGAACCACAGACCTGCGTCCGCAAGA
GCCTCATATGCGCCTTGGCATGGCCTTCATCATAAGCGTCATGCTGATCGCAGCCAACCCAGATCCTGCG
GAGCGGCATGGAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_181045
Insert Size:	786 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.

RefSeq: [NM_181045.1](#), [NP_851388.1](#)

RefSeq Size: 2286 bp

RefSeq ORF: 786 bp

Locus ID: 140904

UniProt ID: [Q9JJG7](#)

Cytogenetics: 5 G1.3- G2

Gene Summary: Negatively regulates Golgi-to-plasma membrane trafficking by interacting with PI4KB and inhibiting its activity (By similarity). May play a role in the physiology of neurons and is potentially important in memory and learning.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant represents the longer transcript and it encodes the longer protein (isoform a).