

Product datasheet for **MR202484**

Caln1 (NM_021371) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Caln1 (NM_021371) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Caln1 |
| Synonyms: | 9630012C17Rik; Cabp8; MNCb-0849 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR202484 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGTTCCACCATGTAACCGCTGGCTTGTGTACAAGGGGAATTACCTCAACCGATCTCTGTCTGCAG
GCAGTGACAGCGAGCAGTTGGCTAATATCTCCGTGGAAGAAGCTGGATGAAATCCGAGAAGCCTTCCGTGT
TCTGGACAGAGATGGCAACGGCTTCATCTCCAAGCAGGAGCTGGGCATGGCCATGCGCTCCTTGGGGTAC
ATGCCGAGCGAAGTGGAGCTGGCTATCATCATGCAGCGTTTGGACATGGACGGAGATGGCAGGTAGATT
TTGATGAATTCATGACGATTCTTGGGCCAAGCTGGTGTATCAGAAGGTCGGGATGGTTTTCTTGGAAA
TACGATAGACAGTATCTTCTGGCAGTTCGACATGCAGAGAGTACGCTGGAAGAGCTGAAGCACATCCTG
TACCACGCCTTCCGGGATCACTTAACGATGAAGGACATTGAGAACATTATCATCAACGAGGAGGAGATT
TGAACGAGACCTCGGGAACTGCCAGACAGAGTTTGAAGGAGTTCATTCCAGAAAACAGAACCGACAGAC
CTGCGTCCGCAAGAGCCTCATATGCGCCTTTGCCATGGCCTTCATCATAAGCGTCATGCTGATCGCAGCC
AACCAGATCCTGCGGAGCGGCATGGAG

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202484 protein sequence
Red=Cloning site Green=Tags(s)

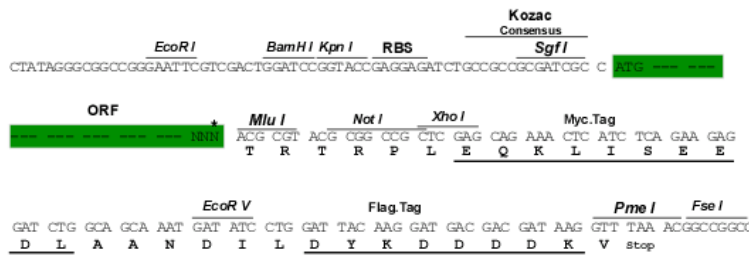
MPFHVHTAGLLYKGNLNRSLSAGSDSEQLANISVEELDEIREAFRVLDRDGNFISKQELGMAMRSLGY
 MPSEVELAIIMQRLDMDGDGQVDFDEFMTILGPKLVSSEGRDGLGNTIDSIWFQFDMQRVTLLEELKHIL
 YHAFRDHLTMKDIENIIINEEESLNETSGNCQTEFEGVHSQKQNRQTCVRKSLICAFAMAFIISVMLIAA
 NQILRSGME

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_021371

ORF Size: 660 bp

OTI Disclaimer: 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.

RefSeq: [NM_021371.2](#), [NP_067346.1](#)

RefSeq Size: 2586 bp

RefSeq ORF: 660 bp

Locus ID: 140904

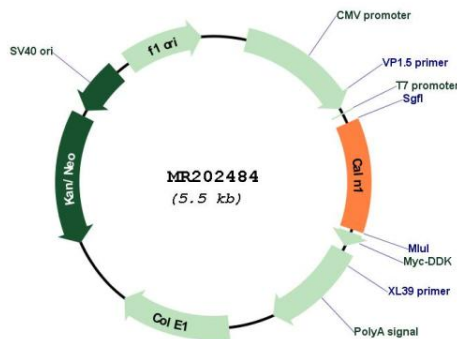
UniProt ID: [Q9JIG7](#)

Cytogenetics: 5 G1.3- G2

MW: 24.8 kDa

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]

Product images:



Circular map for MR202484