

Product datasheet for **MG202484**

Caln1 (NM_021371) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Caln1
Synonyms:	9630012C17Rik; Cabp8; MNCb-0849
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG202484 representing NM_021371
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGTTCCACCATGTAACCGCTGGCTTGTGTACAAGGGGAATTACCTCAACCGATCTGTCTGCAG
GCAGTGACAGCGAGCAGTTGGCTAATATCTCCGTGGAAGAAGTGGATGAAATCCGAGAAGCCTTCCGTGT
TCTGGACAGAGATGGCAACGGCTTCATCTCCAAGCAGGAGCTGGGCATGGCCATGCGCTCCTTGGGTAC
ATGCCGAGCGAAGTGGAGCTGGCTATCATCATGCAGCGTTTGGACATGGACGGAGATGGCAGGTAGATT
TTGATGAATTCATGACGATTCTTGGCCCAAGCTGGTGTATCAGAAGGTCGGGATGGTTTTCTTGGAAA
TACGATAGACAGTATCTTCTGGCAGTTCGACATGCAGAGAGTCACGCTGGAAGAGCTGAAGCACATCCTG
TACCACGCCTTCCGGGATCACTTAACGATGAAGGACATTGAGAACATTATCATCAACGAGGAGGAGATT
TGAACGAGACCTCGGGAACTGCCAGACAGAGTTTGAAGGAGTTCATTTCGAGAAACAGAACCGACAGAC
CTGCGTCCGCAAGAGCCTCATATGCGCCTTGCCATGGCCTTCATCATAAGCGTCATGCTGATCGCAGCC
AACCAGATCCTGCGGAGCGGCATGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202484 representing NM_021371
Red=Cloning site Green=Tags(s)

MPFHVHTAGLLYKGNLNRSLSAGSDSEQLANISVEELDEIREAFRVLDRDNGFISKQELGMAMRSLGY
MPSEVELAIIMQRLDMDGDGQVDFDEFMTILGPKLVSSEGRDGLGNTIDSIFWQFDMQRTLEELKHIL
YHAFRDHLTMKDIENIIINEEESLNETSGNCQTEFEGVHSQKQNRQTQVRKSLICAFAMAFIISVMLIAA
NQILRSGME

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021371

ORF Size: 657 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.

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

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

RefSeq Size: 2123 bp

RefSeq ORF: 660 bp

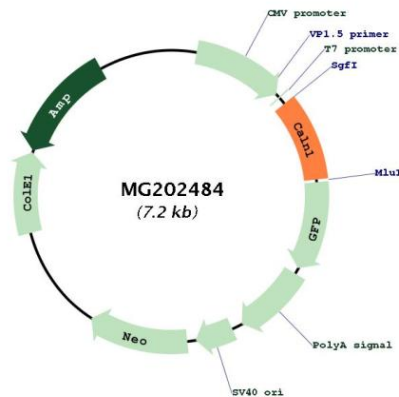
Locus ID: 140904

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]

Product images:



Circular map for MG202484