

## Product datasheet for **MG224345**

### **Cabp1 (NM\_013879) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cabp1 (NM_013879) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cabp1
Synonyms:	caldendrin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224345 representing NM_013879 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCAACTGCGTCAAGTCGCCACTAAGAAACCTCTCAAGAAAGATGCGCCAGGAGGAGAAGACCAGCT  
ACATGGCGGTGCAGACAAGCGAGGACGGGCTGGCGGATGGCGGCGAGCTCCATGGACCACTCATGATGCT  
GGCCAGAACTGTGCGGTATGCACAACCTGCTGGTCCCCTGCATTTTCTCCGAAAGGTTTTGCT  
GAGAACAGACAACCTGACAGATCGTTACGACCAGAGGAGATTGAAGAGCTCCGAGAGGCCTCCGAGAAT  
TTGACAAAGACAAGGATGTTACATCAACTGCCGGACCTGGGAACTGCATGCGCACCATGGGCTACAT  
GCCACCAGAGATGGAGCTCATTGAGCTGTCTCAGCAGATCAACATGAACCTGGGTGGCCACGTGGATTTT  
GATGACTTTGTGGAAGTATGGGCCCTAAACTCCTGGCGGAGACGGCAGATATGATTGGTGTAAAGGAGC  
TGAGAGACGCCTTTGGGAGTTTGATACCAACGGTGACGGGGAGATAAGTACGAGCGAGCTTCGAGAGGC  
CATGAGGAAGCTCCTGGGTATCAGGTGGGACACCGGGACATAGAGGAAATTATCCGAGACGTGGACCTC  
AATGGAGATGGACGAGTGGACTTTGAAGAGTTGTCCGGATGATGTCTCGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224345 representing NM\_013879  
 Red=Cloning site Green=Tags(s)

MGNCVKSPRLRNL SRKMRQEEKTSYMAVQTS EDGLADGGELHGPLMMLAQNCAMHNLLGPACIFLRKGF A  
 ENRQPDRSLRPEEIEELREAFREFDKDKDGYINCRDLGNCMRMTGYMPTEMELIELSQQINMNLGGHVDF  
 DDFVELMGPKLLAETADMIGVKELRDAFREFDTNGDGEISTSELREAMRKL LGHQVGH RDIEE IIRDVDL  
 NGDGRVDFE EFVRMMSR

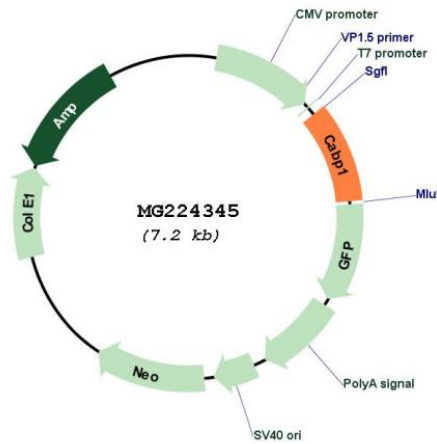
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_013879

**ORF Size:** 681 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_013879.2</a> , <a href="#">NP_038907.1</a>
<b>RefSeq Size:</b>	1181 bp
<b>RefSeq ORF:</b>	684 bp
<b>Locus ID:</b>	29867
<b>UniProt ID:</b>	<a href="#">Q9JLK7</a>
<b>Cytogenetics:</b>	5 F
<b>Gene Summary:</b>	Modulates calcium-dependent activity of inositol 1,4,5-triphosphate receptors (ITPRs). Inhibits agonist-induced intracellular calcium signaling. Enhances inactivation and does not support calcium-dependent facilitation of voltage-dependent P/Q-type calcium channels (By similarity). Causes calcium-dependent facilitation and inhibits inactivation of L-type calcium channels by binding to the same sites as calmodulin in the C-terminal domain of CACNA1C, but has an opposite effect on channel function. Suppresses the calcium-dependent inactivation of CACNA1D (PubMed:17050707, PubMed:17947313). Inhibits TRPC5 channels. Prevents NMDA receptor-induced cellular degeneration (By similarity). Required for the normal transfer of light signals through the retina (PubMed:27822497).[UniProtKB/Swiss-Prot Function]