

Product datasheet for **MG220452**

Cacng1 (NM_007582) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cacng1 (NM_007582) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Cacng1
Synonyms: MGC117703
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220452 representing NM_007582
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCACAGACAAAACAGCGAAGGTTCTGTGACCTCTTCTTCATCCTGGTGGCGGGGTGCTCGCCA
 TGGTGGCCGTGGTACTGACCACTGGGCCGTGCTGAGTCCACACCTGGAGCACCACAATGAAACGTGCGA
 GGCAGCCCACTTTGGCCTCTGGAGGATCTGCACCCTCGGTTGCCGTGCACAACAAGACAAGAGTTGT
 GAGCACGTCACACCATCAGGGGAAAAGAACTGCTCCTACTTCAGGCACTCAACCCAGGGGAGAGCTCGG
 AAATCTTTGAATTCACCACTCAAAGGAGTACAGCATCTCAGCAGCGGCCATTGCCATCTTCAGCCTCGG
 CTTTCATCATTGTGGGTTCCATCTGCGCATTTCTGTCTTCGGGAATAAGCGTGATTACCTGCTGAGGCCA
 GCATCCATGTTTTATGCCTTCGACGGGCTCGCCTCATCGTCTCCGTGGAGGTCATGAGGCAGTCGGTGA
 AGCGTATGATTGACAGCGAGGACACGGTCTGGATAGAGCACTACTATTCGTGGTCTTTCCCTGTGCATG
 TGCCGCGTTTCATCTTCTCCTCGGTGGGCTGTTCTCCTGCTCTTCTCCCTGCTCGGATGCCTCAG
 AACCCCTGGGAATCCTGCATGGACGCTGAGCCAGAGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220452 representing NM_007582
Red=Cloning site Green=Tags(s)

MSQTKTAKVRVTLFFILVGGV LAMVAVVTDHWAVLSPHLEHHNETCEAAHFGLWRICTARVAVHNKDKSC
 EHVTPSGEKNCSYFRHFNPGESSEIFEFTTQKEYSISAAAIAIFSLGFIIVGSICAFLSFGNKRDYLLRP
 ASMFYAFAGLCLIVSVEVMRQSVKRMIDSEDTVWIEHYYSWFSACACAAFILLFLGLLLLLFSLPRMPQ
 NPWESCMDAEP

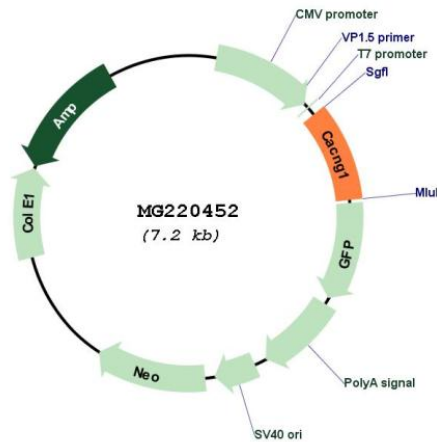
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_007582

ORF Size: 669 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_007582.2 , NP_031608.1
RefSeq Size:	1225 bp
RefSeq ORF:	672 bp
Locus ID:	12299
UniProt ID:	O70578
Cytogenetics:	11 E1
Gene Summary:	Regulatory subunit of the voltage-gated calcium channel that gives rise to L-type calcium currents in skeletal muscle. Regulates channel inactivation kinetics.[UniProtKB/Swiss-Prot Function]